

**COMMONWEALTH DRILLING**

**DAILY DRILLING LOG**  
DIRECTIONS TO WELL

RIG NO **22** LOCATION **INC. BLOCKFAY HBSH** M. SEC **55** TWP  
MILES MOVED

TOUR	From		Footage		To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly																																							
	B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																																							
MIDNIGHT TO 8 AM	6790		12 mn	2 am	4 am	6 am																																																				
	M U D						P U M P				P U M P				M O T O R H O U R S				Next Oil Change																																							
	WEIGHT						No. 1				No. 2				1																																											
	VISCOSITY						MODEL				MODEL				2																																											
	GEL						L I N E R S I Z E				L I N E R S I Z E				3																																											
	W.L.						DESILTER Hours Op.				U. Flow				O. Flow				SURVEYS																																							
	ADDITIVES:						GENERAL:								4																																											
															5																																											
	Drilling Line Record						Size				Make				Serial No.				No. Lines				Trips				Ton Miles				Total Miles				Slip				Feet or Cut				At Miles				Date Slip or Cut				Next Slip				Fr. Left on Spool			
	FIRES																																																									
8 AM TO 4 PM			8 am	10 am	12 noon	2 pm																																																				
	M U D						P U M P				P U M P				M O T O R H O U R S				Next Oil Change																																							
	WEIGHT						No. 1				No. 2				1																																											
	VISCOSITY						MODEL				MODEL				2																																											
	GEL						L I N E R S I Z E				L I N E R S I Z E				3																																											
	W.L.						DESILTER Hours Op.				U. Flow				O. Flow				SURVEYS																																							
	ADDITIVES:						GENERAL:								4																																											
															5																																											
	Drilling Line Record						Size				Make				Serial No.				No. Lines				Trips				Ton Miles				Total Miles				Slip				Feet or Cut				At Miles				Date Slip or Cut				Next Slip				Fr. Left on Spool			
	FIRES																																																									
4 PM TO MIDNIGHT			4 pm	6 pm	8 pm	10 pm																																																				
	M U D						P U M P				P U M P				M O T O R H O U R S				Next Oil Change																																							
	WEIGHT						No. 1				No. 2				1																																											
	VISCOSITY						MODEL				MODEL				2																																											
	GEL						L I N E R S I Z E				L I N E R S I Z E				3																																											
	W.L.						DESILTER Hours Op.				U. Flow				O. Flow				SURVEYS																																							
	ADDITIVES:						GENERAL:								4																																											
															5																																											
	Drilling Line Record						Size				Make				Serial No.				No. Lines				Trips				Ton Miles				Total Miles				Slip				Feet or Cut				At Miles				Date Slip or Cut				Next Slip				Fr. Left on Spool			
	FIRES																																																									

W O  
F I R E  
P U M P  
L A Y D  
L I N E S

P U M P  
W E L D  
D R A M

L O O P  
D R A I N  
L A Y  
F I R E

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & mat. Chkd	Fuel on Hand 12:01 a.m.	CASING REPORT							
Hydral					Rig Savers Chkd	Fuel Rec'd Today (add)	RAN	JTS	CSG	HE				
Pipe Rams					Ampl. Cook Chkd	TOTAL	KB USED	SAT	CEW	DAY				
Blind Rams					Fine Equip. Chkd	Fuel on Hand 11:59 p.m. (deduct)	PLUS	FLCS DOWN	AM	PM	DAY			
TO/CO RING ON BIT =						50/100 Operated	FUEL USED		CEMENT RETURNS		YES	NO	CEMENT CHANG	

LOCATION I.N.C. BLACKFLY HBSKY L.S.D. M SEC 55 TWP        RGE        W        DATE APRIL 1 19 70  
 MILES MOVED        ROAD CONDITIONS        DAYS FROM 75

DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly

REMARKS	TIME		
	START	STOP	INTVL
WOC plug #4	12 <sup>00</sup>	3 <sup>00</sup>	3
FERTI plug #4 @ 14/16	3 <sup>00</sup>	3 <sup>30</sup>	2
Pull out + lay down Pipe	3 <sup>30</sup>	5 <sup>00</sup>	1 1/2
LAY DOWN BOP'S Flare	5 <sup>00</sup>		
lines etc.		8 <sup>00</sup>	

DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly

REMARKS	TIME		
	START	STOP	INTVL
Pull 5 SPS plug on surface	8 <sup>00</sup>		
weld on cap & sign		10 <sup>00</sup>	2
Dismantle Rig	10 <sup>00</sup>	6 <sup>00</sup>	8
clean mud Tanks			
Drain pumps			
LAY DOWN Derrick			
Rig released @ 6. P.M.			

DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly

REMARKS	TIME		
	START	STOP	INTVL

CASING REPORT		RAN		ITS		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER IT	
Level on Hand 12 01 a.m.	90%										
Level Rec'd Today (add)	90%										
<b>TOTAL</b>	90%										
Level on Hand 11 59 p.m. (deduct)	90%										
<b>FUEL USED</b>	90%										

APPROVED BY OPERATOR'S REPRESENTATIVE: *[Signature]*  
 APPROVED BY TOOLPUSHER: *[Signature]*  
 DAYS FROM SPUD: 75  
 TOTAL COMPANY TIME:        HRS  
 TOTAL CONTRACTOR'S TIME:        HRS  
 EQUIPMENT CHARGES:         
 COM 42666

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

WELL NO. 22 LOCATION: I.N.C. PLUCKFLY HUSKY 111-55

MAKING POINT SHIPPING POINT METERS ABOVE

TOUR	MIDNIGHT TO 8 AM	M U-D	Footage		Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)		Stands	Singles	DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. Up on Kelly	
			From	To		No.	O.D.			I.D.	Length									Air Wt.
8 AM TO 4 PM	TOUR	B I T S	6790																	
			No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
			M U-D		12 mn	2 am	4 am	6 am	PUMP		12 mn	2 am	4 am	6 am	MOTOR HOURS		Next Oil Change			
			WEIGHT						No. 1	PUMP										
			VISCOSITY						MODEL	PUMP										
			GEL						LINE	PUMP										
			W.L.		F.C.		pH		DESILTER		Hours Op.		U Flow		O Flow		SURVEYS			
			ADDITIVES:		GENERAL:															
			Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date	Slip	Next Slip	Fr. Left on Spool		
4 PM TO MIDNIGHT	TOUR	B I T S	1500																	
			No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
			M U-D		8 am	10 am	12 noon	2 pm	PUMP		8 am	10 am	12 noon	2 pm	MOTOR HOURS		Next Oil Change			
			WEIGHT						No. 1	PUMP										
			VISCOSITY						MODEL	PUMP										
			GEL						LINE	PUMP										
			W.L.		F.C.		pH		DESILTER		Hours Op.		U Flow		O Flow		SURVEYS			
			ADDITIVES:		GENERAL:															
			Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date	Slip	Next Slip	Fr. Left on Spool		

Well plug  
discharge  
pull out  
WOC

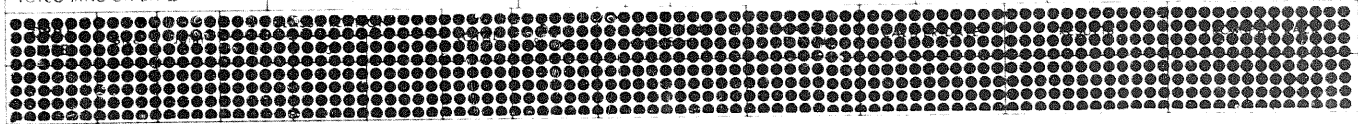
Plug #2  
efficient  
FIRES Plug  
High SER  
Run in to  
pull out  
Plug + run  
pull out  
WOC

WOC  
1201  
pull out  
WOC

WOC  
pull out  
WOC

WOC  
pull out  
WOC

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & mat's Chk'd	Rig Savers Chk'd	Kelly Cook Chk'd	Fuel on Hand 12:01 am	Fuel Res. Today	TOTAL	Fuel on Hand 5:59 am	FUEL USED	CASING REPORT	KB USED	SAFETY	CEM	DA



CONSERVATION BOARD COPY

LOC ON J.N.C. BLACKFLY HUSKY SEC 171 SEC 55 TWP            RGE            N            DATE MARCH 31 1970  
 SHIPPING POINT            MILES MOVED            ROAD CONDITIONS            DAYS FROM SPUD 77

DRILL COLLARS											
Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
4 a.m.		6 a.m.		PUMP		12 m	2 a.m.	4 a.m.	6 a.m.		
MOTOR HOURS			Next Oil Change								
No. 2 PRES. SURE											
MODEL S.P.M.											
LINER SIZE											
U. Flow.				O. Flow.				SURVEYS			
At Feet		Degrees		At Feet		Degrees					
Weather				Water				Temp.			
				Temp.				Bbls.			
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS  
 1.5m plug #2 4000-3800 and displace SAME  
 Pull out and lay down D.P. W.O.C.  
 Plug #2 w/ 142 SKS Fondo.  
 Cement Displace w/ 67 BBS WAT.  
 FIRES Plug Down 1230 AM

TIME		
START	STOP	INTVL
12 <sup>00</sup>		
12 <sup>30</sup>	1 <sup>00</sup>	2
12 <sup>30</sup>	4 <sup>00</sup>	5 1/2
4 <sup>00</sup>	8 <sup>00</sup>	4

DRILL COLLARS											
Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
12 noon		2		PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.		
MOTOR HOURS			Next Oil Change								
No. 2 PRES. SURE											
MODEL S.P.M.											
LINER SIZE											
U. Flow.				O. Flow.				SURVEYS			
At Feet		Degrees		At Feet		Degrees					
Weather				Water				Temp.			
				Temp.				Bbls.			
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS  
 Run in to feel plug #2  
 Pull out to run plug #3  
 Rig + run plug #3  
 Pull out + lay down pipe W.O.C.  
 FIRES

TIME		
START	STOP	INTVL
8 <sup>00</sup>	8 <sup>15</sup>	
8 <sup>15</sup>	8 <sup>30</sup>	1/4
8 <sup>30</sup>	9 <sup>12</sup>	3/4
9 <sup>12</sup>	10 <sup>00</sup>	3/4
10 <sup>00</sup>	4 <sup>00</sup>	6

DRILL COLLARS											
Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
8 a.m.		10 p.m.		PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.		
MOTOR HOURS			Next Oil Change								
No. 2 PRES. SURE											
MODEL S.P.M.											
LINER SIZE											
U. Flow.				O. Flow.				SURVEYS			
At Feet		Degrees		At Feet		Degrees					
Weather				Water				Temp.			
				Temp.				Bbls.			
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS  
 W.O.C. on plug #3  
 Feel for plug #4  
 Pull up to 1500 FT and run plug #4  
 Pull out  
 W.O.C. 7:00  
 FIRES

TIME		
START	STOP	INTVL
4 <sup>00</sup>	6 <sup>00</sup>	2
6 <sup>00</sup>	6 <sup>30</sup>	1/2
6 <sup>30</sup>	7 <sup>00</sup>	1
7 <sup>00</sup>	7 <sup>30</sup>	1/2
7 <sup>30</sup>	12 <sup>00</sup>	4 1/2

FUEL REPORT		
Fuel on Hand 12:01 a.m.	gals.	
Fuel Rec'd Today (add)	gals.	
<b>TOTAL</b>	gals.	
Fuel on Hand 11:59 a.m. (deduct)	gals.	
<b>FUEL USED</b>	gals.	

CASING REPORT  
 RAN \_\_\_\_\_ ITS \_\_\_\_\_ CSG \_\_\_\_\_  
 TO \_\_\_\_\_ KB USED \_\_\_\_\_ SA \_\_\_\_\_ CEM \_\_\_\_\_  
 PLUS \_\_\_\_\_ PLUG DOWN \_\_\_\_\_ A.M. P.M. \_\_\_\_\_  
 DAYS FROM SPUD 77  
 EQUIPMENT CHANGES  
 Approved by Operator's Representative K. K. K.  
 Approved by Toolpusher J. J. J.

COM 42665

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22

LOCATION I.N.C. HUCKY BLACKFLY

SEC 17 SEC 55

MAILING POINT

SHIPPING POINT

WELLS MOVE

TOUR	From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Ft. up on Kelly			
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																
8 AM TO 8 PM	6790								66		615374				6		7"		2 1/2"						365		435		WAIT ON					
	MUD		12 mn		2 a.m.		4 a.m.		6 a.m.		PUMP		12 mn		2 a.m.		4 a.m.		6 a.m.		PUMP		12 mn		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS		Next Oil Change	
	WEIGHT										No. 1		PRES. SURE								No. 2		PRES. SURE						1		14		240	
	VISCOSITY										MODEL		S.P.M.								MODEL		S.P.M.						2		14		"	
	GEL										LINER SIZE		5 1/2" x 16								LINER SIZE		5 1/2" x 12						3		14		"	
	W.L.		F.C.		pH		DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees				4						5		208		"			
	ADDITIVES:						GENERAL: FUEL # 4'																											
	Drilling Line Record		1" B WRIOT		9-697		8		13 1/2		365		2189		30		1670		MAY 26		2350		3-25								FIRES			
	8 AM TO 4 PM	6790								66		615374				6		7"		2 1/2"						365		435		WAIT ON				
		MUD		8 a.m.		10 a.m.		12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS		Next Oil Change
WEIGHT										No. 1		PRES. SURE								No. 2		PRES. SURE						1		22		240		
VISCOSITY										MODEL		S.P.M.								MODEL		S.P.M.						2		22		"		
GEL										LINER SIZE										LINER SIZE								3		22		"		
W.L.		F.C.		pH		DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees				4						5		216		"				
ADDITIVES:						GENERAL:																												
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				FIRES				
4 PM TO MIDNIGHT		6640								TD of Pill						DRILL COLLARS																		
		MUD		4 p.m.		5 p.m.		8 p.m.		10 p.m.		PUMP		4 p.m.		5 p.m.		8 p.m.		10 p.m.		PUMP		4 p.m.		5 p.m.		8 p.m.		10 p.m.		MOTOR HOURS		Next Oil Change
	WEIGHT										No. 1		PRES. SURE								No. 2		PRES. SURE						1					
	VISCOSITY										MODEL		S.P.M.								MODEL		S.P.M.						2					
	GEL										LINER SIZE										LINER SIZE								3					
	W.L.		F.C.		pH		DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees				4						5							
	ADDITIVES:		CEMENT				GENERAL:		285.5 KRS.																									
	Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				FIRES			

CONSERVATION BOARD COPY

Serial No. Wgt. R.P.M. Drilled or Corred. Hrs. Reamed Hrs. Pump No. Pump Pressure S.P.M. Table Torque T. B. G.

6.0 m	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
No. 1 PRES. SURE						No. 2 PRES. SURE					14	240
MODEL S.P.M.						MODEL S.P.M.					14	
6.00	616 x 16					616 x 12					14	
DESILTER Hours Op:	U. Flow:		O. Flow:		SURVEYS						208	
GENERAL: FUEL # 41												

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool
87	13 1/2	365	2189	30	30	1810	APR 26 2 350	3825	
Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	ID.	Length	At Wt.	Sub. Wt.
				6	70	28	418'	418'	265

Serial No.	Wgt.	R.P.M.	Drilled or Corred.	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	ID.	Length	At Wt.	Sub. Wt.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

WAIT ON ORDERS

Serial No.	Wgt.	R.P.M.	Drilled or Corred.	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	ID.	Length	At Wt.	Sub. Wt.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	ID.	Length	At Wt.	Sub. Wt.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

1200 600 8

Serial No.	Wgt.	R.P.M.	Drilled or Corred.	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	ID.	Length	At Wt.	Sub. Wt.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	ID.	Length	At Wt.	Sub. Wt.

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

No. Lines	Trips	Ton Miles	Total Miles	Slip or Cut	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool

CM 42554

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
178	8 1/2"	BURKERT	9497	8	1312	365	2189	30	1810	26	2350	3525	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip or Feet	Feet or Cur	At Miles	Date Slip or Cur	Neat Slip	Fi. Left on Spool
6790	8 1/2"												

WASH OUT BOILER

WAIT ON ORDERS

WAIT ON ORDERS

DRILLER'S S

APPROVED

OPERATOR

REPRESENTATIVE

TOOLPUSHER

CONSERVATION BOARD COPY

COM

LOCATION **INC. BLACK FAIS HUSKY** LSD **M** SEC **55** TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE **MARCH 29** 19 **70**

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD **75**

Singles	DRILL COLLARS	No. <b>6</b>	O.D. <b>2 7/8</b>	I.D. <b>7"</b>	Length	Air Wt.	Sub. <b>365</b>	C.B. Ft. <b>424</b>	Ft. up on Kelly		
3.74											
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change	
		No. 2	PRES. SURE					1	6	240	
		MODEL	S.P.M.					2	6	"	
		16	150	5 1/2 x	12			3	6	"	
								4	6	"	
								5	184	"	
U. Flow:				O. Flow:				SURVEYS		Weather	
								At Feet		Degrees	
OIL IN ALL G.M. G. MOTORS											
AND FILTERS											

REMARKS			TIME		
			START	STOP	INVT
WAIT ON ORDER			12:00	8:00	8
WASH OUT ROULER					

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
2184	30		1810	MAR 26	2350	365					
Singles	DRILL COLLARS	No. <b>6</b>	O.D. <b>2 7/8</b>	I.D. <b>7"</b>	Length	Air Wt.	Sub. <b>365</b>	C.B. Ft. <b>434</b>	Ft. up on Kelly		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change	
		No. 2	PRES. SURE					1			
		MODEL	S.P.M.					2			
								3			
								4			
								5			
U. Flow:				O. Flow:				SURVEYS		Weather	
								At Feet		Degrees	

REMARKS			TIME		
			START	STOP	INVT
WAIT ON ORDERS			8:00	4:00	8
FIRES					

DRILLER'S SIGNATURE: *M. Hejda*

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
Singles	DRILL COLLARS	No. <b>6</b>	O.D. <b>2 7/8</b>	I.D. <b>7"</b>	Length	Air Wt.	Sub. <b>365</b>	C.B. Ft. <b>434</b>	Ft. up on Kelly		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change	
		No. 2	PRES. SURE					1			
		MODEL	S.P.M.					2			
								3			
								4			
								5			
U. Flow:				O. Flow:				SURVEYS		Weather	
								At Feet		Degrees	

REMARKS			TIME		
			START	STOP	INVT
WAIT ON ORDERS			8:00	4:00	8
FIRES					

DRILLER'S SIGNATURE: *K. Ryan*

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT		RAN	ITS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.							
<b>TOTAL</b>	gals.	TO	KB USED	SAX	CEM			
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A M	P M	DAYS FROM SPUD: <b>75</b>	TOTAL COMPANY TIME	TOTAL CONTRACTOR TIME
<b>FUEL USED</b>	gals.	CEMENT RETURNS (YES/NO)	EQUIPMENT CHANGES				HRS	HRS

Approved by Operator's Representative		Approved by Toolpusher	
<i>R. [Signature]</i>		<i>[Signature]</i>	

COM 42663



**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO **22**

LOCATION **I.N.C. ETAL. HUSKY BLACKFLY**

SEC **17** TWP **5**

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
6990					65	1	18 7"	2 7/8	52343	12	11528	4134	365	434	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1 154	240			
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2 164	"			
GEL					LINER SIZE					LINER SIZE					3 164	"			
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:														GENERAL:		At Feet		Degrees	
														Weather		Water			
														Temp.		Bbls.			

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
1 7/8 WRIGHT			9-697	8	13 1/2	365	2189	30		1810	MARCH 26	2350	3825

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
6970					65	1	18 7"	2 7/8	52343	12	11528	4134	365		

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1 172	240			
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2 172	"			
GEL					LINER SIZE					LINER SIZE					3 172	"			
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:														GENERAL:		At Feet		Degrees	
														Weather		Water			
														Temp.		Bbls.			

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
1 7/8 WRIGHT			9-697	8	13 1/2	365	2189	30		1810	MARCH 26	2350	3825

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & matrix Chk'd	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT				RAN	ITS	CSG	
Hydrit					Rig Savers Chk'd	Fuel Rec'd Today (add)	gals.								
Pipe Rams					Kelly Cock Chk'd	TOTAL	gals.					TO	KB USED	SAX	CEM
Blind Rams					Fire Equip Chk'd	Fuel on Hand 11:59 p.m. (deduct)	gals.					PLUS	PLUG DOWN	A.M.	P.M.
TOTCO RING ON BIT #		Boiler Operated	24	Hrs.		FUEL USED	gals.					CEMENT RETURNS (YES/NO)		EQUIPMENT CHAN	

CONSERVATION BOARD COPY

LOCATION I.N.C. ETAL. HUSKY BLACKFLY SEC 17 TWP 55 N. DATE MARCH 28 1970  
 MAILING POINT SHIPING POINT MILES MOVED FOAC CONDITIONS DAYS FROM SPUD 24

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
56		18	7"	2 7/8"	523.43	365	434	510		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

REMARKS	TIME		
	START	STOP	INTVL
LOG W/SHCLUMBERGER	1200	800	8

a.m.	6 a.m.	<b>PUMP</b>	12 mn	2 a.m.	4 a.m.	6 a.m.	<b>MOTOR HOURS</b>	Next Oil Change
		No. 2					1 164	240
		MODEL					2 164	"
		150					3 164	"
		5 1/2 x 12					4 164	"
							5 160	"

S.M.P. LOG  
 TEMP. LOG

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			
89	30		1810	MARCH 26	2350	3825			
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
56		18	7"	2 7/8"	523.43	365	434	510	

FIRES H. Heigh DRILLER'S SIGNATURE  
 Logging  
 Wait on Results of logs  
 TEMP.

noon	2 p.m.	<b>PUMP</b>	8 a.m.	10 a.m.	12 noon	2 p.m.	<b>MOTOR HOURS</b>	Next Oil Change
		No. 2					1 172	240
		MODEL					2 172	"
		150					3 172	"
		5 1/2 x 12					4 172	"
							5 168	"

FIRES K. Ferguson DRILLER'S SIGNATURE  
 WAIT ON ORDER

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			
89	30		1810	MARCH 26	2350	3825			
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
56		18	7"	2 7/8"	523.43	365	434	510	

FIRES K. Ferguson DRILLER'S SIGNATURE  
 WAIT ON ORDER

p.m.	10 p.m.	<b>PUMP</b>	4 p.m.	6 p.m.	8 p.m.	10 p.m.	<b>MOTOR HOURS</b>	Next Oil Change
		No. 2					1 180	240
		MODEL					2 "	"
		150					3 "	"
		5 1/2 x 12					4 "	"
							5 176	"

FIRES K. Ferguson DRILLER'S SIGNATURE  
 WAIT ON ORDER

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
89	30		1810	MARCH 26	2350	3825

FIRES K. Ferguson DRILLER'S SIGNATURE  
 WAIT ON ORDER

Fuel on Hand 12 01 a.m.	gals.	<b>CASING REPORT</b>	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.		TO	KB USED	SAX	CEM	
TOTAL	gals.	PLUS		PLUG DOWN	A.M. P.M.	DAYS FROM SPUD: <u>74</u>	TOTAL COMPANY TIME HRS.
Fuel on Hand 11 59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)	EQUIPMENT CHANGES		TOTAL CONTRACTOR'S TIME HRS.		
FUEL USED	gals.					Approved by Operator's Representative: <u>Donald J. [Signature]</u> Approved by Toolpusher: <u>[Signature]</u>	

COM 42725

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO  
WELL

RIG NO 22 LOCATION I.N.C. ET AL HUSKY BLACKFLY SEC 11 SEC 55

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub	Sub	Sub	Ft up on Kelly																																																																																																																							
6790				140 W	6091	56	18 7"	2 1/2	523	43	365	13.7	508	434																																																																																																																									
<table border="1"> <tr> <th>M U D</th> <th>12 mn</th> <th>2 a.m.</th> <th>4 a.m.</th> <th>6 a.m.</th> <th>P U M P</th> <th>12 mn</th> <th>2 a.m.</th> <th>4 a.m.</th> <th>6 a.m.</th> <th>P U M P</th> <th>12 mn</th> <th>2 a.m.</th> <th>4 a.m.</th> <th>6 a.m.</th> <th>MOTOR HOURS</th> <th>Next Oil Change</th> </tr> <tr> <td>WEIGHT</td> <td></td> <td></td> <td></td> <td></td> <td>No. 1 PRES SURE</td> <td></td> <td></td> <td></td> <td></td> <td>No. 2 PRES SURE</td> <td></td> <td></td> <td></td> <td></td> <td>1 140</td> <td>240</td> </tr> <tr> <td>VISCOSITY</td> <td></td> <td></td> <td></td> <td></td> <td>MODEL S.P.M</td> <td></td> <td></td> <td></td> <td></td> <td>MODEL S.P.M</td> <td></td> <td></td> <td></td> <td></td> <td>2 "</td> <td>"</td> </tr> <tr> <td>GEL</td> <td></td> <td></td> <td></td> <td></td> <td>LINEZ SIZE</td> <td></td> <td></td> <td></td> <td></td> <td>LINEZ SIZE</td> <td></td> <td></td> <td></td> <td></td> <td>3 "</td> <td>"</td> </tr> <tr> <td>W.L.</td> <td>F.C.</td> <td>pH.</td> <td colspan="4">DESILTER: Hours Op:</td> <td colspan="4">U. Flow:</td> <td colspan="4">O. Flow:</td> <td colspan="2">SURVEYS</td> </tr> <tr> <td colspan="17">ADDITIVES: GENERAL: FUEL # 6'</td> </tr> <tr> <td colspan="17">Weather: Water: Temp: Bbls:</td> </tr> </table>																	M U D	12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	WEIGHT					No. 1 PRES SURE					No. 2 PRES SURE					1 140	240	VISCOSITY					MODEL S.P.M					MODEL S.P.M					2 "	"	GEL					LINEZ SIZE					LINEZ SIZE					3 "	"	W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		ADDITIVES: GENERAL: FUEL # 6'																	Weather: Water: Temp: Bbls:																
M U D	12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change																																																																																																																							
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W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS																																																																																																																								
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FINISH O  
RIG UP  
LOGGING

DUAL IN

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	FIRES
1 1/8	WRIGHT	9-697	8	13 1/2	365	2189	30	1810	MAR 26	2350	3825			

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub	Sub	Sub	Ft up on Kelly																																																																																																																							
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M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change																																																																																																																							
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Weather: Water: Temp: Bbls:																																																																																																																																							

GAMARA

SONIC

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	FIRES
1 1/8	WRIGHT	9-697	8	13 1/2	365	2189	30	1810	MAR 26	2350	3825			

DEP

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a.m.s Chk d	Rig Savers Chk d	Kelly Cock Chk d	Fire Equip Chk d	Fuel on Hand 12:01 a.m.	gals	FUEL USED	gals	CASING REPORT	RAN	JTS	CSG	RE				
Hydral																					
Pipe Rams																					
Blind Rams																					
TOTCO RING ON BIT #										Boiler Operated		Hrs		FUEL USED		CEMENT RETURNS		YES NO		EQUIPMENT CHANG	

CONSERVATION BOARD COPY

LOCATION J.N.C. ET AL HUSKY BLACKFLY SD M1 SEC 55 TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE MARCH 27/76 19 76

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD 73

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub.	C.B. Ft.	Ft. up on Kelly		
1156		18	7"	2 3/8"	523.43		365	434			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
PUMP		12 mn		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS	Next Oil Change
No 2		PRES. SURE		1		140		240			
MODEL		S.P.M.		2		"		"			
16		150		3		"		"			
LINER SIZE		5 1/2		4		"		"			
x		12		5		136		"			
SURVEYS		At Feet		Degrees		4		"			
U. Flow:		O. Flow:		5		"		"			
# 6'				Weather		Water		Temp.		Bbls.	

REMARKS	TIME		
	START	STOP	INTVL
FINISH OUT	12:00	12:5 1/4	
RIG UP SACLUMBERGER LOGGING	12:5	12:30 1/4	
	12:30	8:00 1/2	
DUAL INDUCTION			

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
2189	30		1810	MAR 26	2350	3825					
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub.	C.B. Ft.	Ft. up on Kelly		
1156		18	7"	2 3/8"	523.43		365	434			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS	Next Oil Change
No 2		PRES. SURE		1		148		240			
MODEL		S.P.M.		2		"		"			
16		150		3		"		"			
LINER SIZE		5 1/2		4		"		"			
x		12		5		144		"			
SURVEYS		At Feet		Degrees		4		"			
U. Flow:		O. Flow:		5		"		"			
				Weather		Water		Temp.		Bbls.	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
2189	30		1810	MAR 26	2350	3825					

FIRES	H. Heigh	DRILLER'S SIGNATURE
Logging	8:00	4:00 7
GAMARAS SONIC CALIBER		
SONIC F. FACTOR		
FIRES	H. Heigh	DRILLER'S SIGNATURE

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
2189	30		1810	MAR 26	2350	3825					
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub.	C.B. Ft.	Ft. up on Kelly		
1156		18	7"	2 3/8"	523.43		365	434			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
PUMP		4 p.m.		6 p.m.		8 p.m.		10 p.m.		MOTOR HOURS	Next Oil Change
No 2		PRES. SURE		1		156		240			
MODEL		S.P.M.		2		"		"			
16		150		3		"		"			
LINER SIZE		5 1/2		4		"		"			
x		12		5		153		"			
SURVEYS		At Feet		Degrees		4		"			
U. Flow:		O. Flow:		5		"		"			
				Weather		Water		Temp.		Bbls.	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
2189	30		1810	MAR 26	2350	3825					

FIRES	H. Heigh	DRILLER'S SIGNATURE
Logging	7:00	8:00 8
DEP METER		
FIRES	H. Heigh	DRILLER'S SIGNATURE

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT	RAN	JTS	CSC	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.	TC	KB USED	SAX	CEM		
TOTAL	gals.	PLUS	PLUG DOWN	A.M. P.M.	DAYS FROM SPUD:	73	
Fuel on Hand 11 59 a.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)		EQUIPMENT CHANGES			
FUEL USED	gals.						

TOTAL COMPANY TIME	HRS	TOTAL CONTRACTOR S TIME	HRS
Approved by Operator's Representative	<i>[Signature]</i>	Approved by Toolpusher	<i>[Signature]</i>

COM 42724

COMMONWEALTH DRILLING

DAILY DRILLING LOGS  
DIRECTIONS TO  
WELL

RIG NO 22 LOCAT ON INC. ET AL. HUSKY BLACKFLY, M SEC 55

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub. Wt	CB Ft	Ft up on Kelly
6790							18	7"	270	52347			434	365	
M U D			12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
WEIGHT			No. 1		No. 2		PREL. SURVEY		1		116		240		
VISCOSITY			MODEL		MODEL		S.P.M.		2		"		"		
GEL			LINER SIZE		LINER SIZE		SURVEYS		3		"		"		
W.L.			DESILTER: Hours Op:		U. Flow		O. Flow		4		"		"		
ADDITIVES:			GENERAL:		Weather		Water		5		112		"		
Drilling Line Record			Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
1 1/8 WRIGHT			9-697	8	13	271	2101	30	45	1379	MAR 23 2000	3840			
6790							18	7"	23	3343			434	365	
M U D			8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
WEIGHT			No. 1		No. 2		PREL. SURVEY		1		124		240		
VISCOSITY			MODEL		MODEL		S.P.M.		2		"		"		
GEL			LINER SIZE		LINER SIZE		SURVEYS		3		"		"		
W.L.			DESILTER: Hours Op:		U. Flow		O. Flow		4		"		"		
ADDITIVES:			GENERAL:		Weather		Water		5		120		"		
Drilling Line Record			Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
1 1/8 WRIGHT			9-697	8	13	271	2101	30	45	1670	MAR 23 2000	3840			
6790							18	7"	23	3343			434	365	
M U D			4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
WEIGHT			No. 1		No. 2		PREL. SURVEY		1		132		240		
VISCOSITY			MODEL		MODEL		S.P.M.		2		"		"		
GEL			LINER SIZE		LINER SIZE		SURVEYS		3		"		"		
W.L.			DESILTER: Hours Op:		U. Flow		O. Flow		4		"		"		
ADDITIVES:			GENERAL:		Weather		Water		5		128		"		
Drilling Line Record			Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
1 1/8 WRIGHT			9-697	8	13	271	2101	30	45	1815	MAR 24 2000	3825			

RIG SER  
LAX DO  
W.O. G  
Run in R  
Kull in  
CIRC  
Pukh ou  
Top o  
Bottom  
PICKUP  
36640  
FIRES  
PULL OU  
FIRES  
PULL OU  
FIRES

CONSERVATION BOARD COPY

LOCAT ON INC. ET AL. HUSKY BLACKFLY SEC M 55 W AP DATE MARCH 26 1970

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD 72

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		18	7"	2 1/8"	52349	8.7	434	365		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
6 a.m.	6 a.m.	PUMP		12 m.m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		
		No. 2	PREL. LUBE					1	116	240
		MODEL	S.P.M.					2	"	"
		150	12					3	"	"
		5 1/2 x 12						4	"	"
U. Flow	O. Flow	SURVEYS		At Feet	Degrees			5	112	"

REMARKS

RIG SERV Bops

LAY DOWN 15 SINGLES

W.O. GEL PLUG

Run in and circ out gel plug

Run in to 2400

CIRC HOLE (NO RETURNS)

PULL OUT

Top of Plug @ 1260.

FIRES Bottom @ 1830th. Main

DRILLER'S SIGNATURE

TIME

START	STOP	INTVL
1200	1215	1/4
	1215	
	300	2 3/4
	613	2 3/4
	630	1/2
	700	1/2
	700	800
	900	900

Total Miles	Slip or Cut	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool				
101	15	45	1379	MAR 23	2100	3840				
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
56		18	7"	2 1/8"	52343	4.34	134	3.65		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
				1	400	60				
2 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		
		No. 2	PREL. LUBE					1	124	240
		MODEL	S.P.M.					2	"	"
		150	12					3	"	"
		5 1/2 x 12						4	"	"
U. Flow	O. Flow	SURVEYS		At Feet	Degrees			5	120	"

REMARKS

Run in to 6500 on 2K WIRE

Pickup 7 rings & 1K white

@ 6640

DRILLER'S SIGNATURE

TIME

START	STOP	INTVL
6:00	11:00	3
11:00	4:00	5

Total Miles	Slip or Cut	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool				
61	30	15	1879	MAR 23	2350	3885				
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		18	7"	2 1/8"	52343	4.34	134	4.34		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		
		No. 2	PREL. LUBE					1	132	240
		MODEL	S.P.M.					2	"	"
		150	12					3	"	"
		5 1/2 x 12						4	"	"
U. Flow	O. Flow	SURVEYS		At Feet	Degrees			5	128	"

REMARKS

Run down

DRILLER'S SIGNATURE

TIME

START	STOP	INTVL
7:00	9:45	5 3/4
9:45	12:00	2 1/4

Total Miles	Slip or Cut	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool		
101	30	15	1815	MAR 24	220	3825		
Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RAN	ITS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.							
TOTAL	gals.	10	KB USED	SAY	CEM			
Fuel on Hand 11 59 p.m. (deduct)	gals.	PLUS						
FUEL USED	gals.	CEMENT RETURNS (YES NO)						

REMARKS

DRILLER'S SIGNATURE

TIME

START	STOP	INTVL

EQUIPMENT CHANGES		TOTAL CONTRACTOR TIME	HRS	TOTAL CONTRACTOR S	HRS
		Approved by		Operator's Representative	
		Approved by		Toolpusher	

DRILLER'S SIGNATURE

Approved by

Operator's Representative

Approved by

Toolpusher

COM 42723

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO  
WELL

WELL NO. *22* LOCATION *Iron Mt. - Husky to Kelly #111 SEC. 22 TWP. 15 N. R. 12 E.*

MAILING POINT *...* SURFACE *...* MILES MOVED *...*

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	Next Oil Change
WEIGHT																1		98		240														
VISCOSITY																2		98		"														
GEL																3		98		"														
W.L. F.C. DESILTER: Hours Op. U. Flow O. Flow SURVEYS At Feet Degrees																4		98		"														
ADDITIVES: GEL-1000 # GENERAL: GARGON - 150 #																5		58		"														
CAUSTIC - 400 # HAGA TREAT - 150 #																Weather		Water																
QUIK VIS - 9 GAL.																Temp.		Bbls																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Slip	Cut	At Miles	Date Slip or Cut	Next Slip	At Miles	Date Slip or Cut	Next Slip	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool														
6790	1 1/8	WRIGHT	9-687	8	12	181	1830	20	45	1399	23	22	1870	35	40						2500	FIRES												
M U D 8 a.m. 10 a.m. 12 noon 2 p.m. P U M P 8 a.m. 10 a.m. 12 noon 2 p.m. P U M P 8 a.m. 10 a.m. 12 noon 2 p.m. M O T O R H O U R S																100		240																
WEIGHT																1		100		240														
VISCOSITY																2		"		"														
GEL																3		"		"														
W.L. F.C. pH DESILTER: Hours Op. U. Flow O. Flow SURVEYS At Feet Degrees																4		"		"														
ADDITIVES: GEL 1000 # GENERAL: HAGA TREAT 100 #																5		96		"														
GARGON 100 #																Weather		Water																
QUIK VIS - 9 GAL.																Temp.		Bbls																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Slip	Cut	At Miles	Date Slip or Cut	Next Slip	At Miles	Date Slip or Cut	Next Slip	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool														
6790	1 1/8	WRIGHT	9-697	8	12	181	1830	20	45	1399	23	22	1870	35	40						2500	FIRES												
M U D 4 p.m. 6 p.m. 8 p.m. 10 p.m. P U M P 4 p.m. 6 p.m. 8 p.m. 10 p.m. P U M P 4 p.m. 6 p.m. 8 p.m. 10 p.m. M O T O R H O U R S																108		240																
WEIGHT																1		108		240														
VISCOSITY																2		"		"														
GEL																3		"		"														
W.L. F.C. pH DESILTER: Hours Op. U. Flow O. Flow SURVEYS At Feet Degrees																4		"		"														
ADDITIVES: TRAY #4 GEL 900 SRS 2400 K. SPS 80 BLS																5		104		"														
FROM 1500 TO																Weather		Water																
QUIK VIS - 9 GAL.																Temp.		Bbls																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Slip	Cut	At Miles	Date Slip or Cut	Next Slip	At Miles	Date Slip or Cut	Next Slip	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool														
6790	1 1/8	WRIGHT	9-697	8	13	271	2101	20	45	1399	23	22	1870	35	40						2500	FIRES												

B.O.P.	Tested	Elapsed Time	Pres. sure	Packing & Seal Inspected Date	Crown a.matic Chk d	Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	ITS	CSG	HENT A
	Hydri					Fuel Rec'd Today (add)	gals					
	Pipe Rams					TOTAL		gals	TO	KB USED	DAY	CEM
	Blind Rams					FUEL USED		gals	PLUS	PULL DOWN	A.M. P.M.	DAYS FR

OTCO RING ON BIT #	Boiler Operated	Hrs.	MOTOR HOURS									
1	24											

*Use ... to bottom of ...*

*WT/WATER ...*

*Bell + eisu ...*

*VIS 30 -*

*BIG SER V ...*

*CIRC. MAX ...*

*PULL OUT*

*FIRES*

*FIN. 4 ...*

*MOVE 200 ...*

*QUIK VIS ...*

*HAND GET ...*

*101 ...*

*...*

CONSERVATION BOARD COPY

D

LOCATION Inc Est #1 Husky Block #1 LSD 111 SEC 55 TWP --- RGE --- N --- DATE Mar 25 1970

MAILING POINT --- SHIPPING POINT --- MILES MOVED --- ROAD CONDITIONS --- DAYS FROM SPUD 11

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		18	7 3/8	2 7/8	5324	4.34	365		

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

4 a.m.	6 a.m.	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
						1 93	240
						2 92	"
						3 98	"
						4 92	"
						5 88	"

U. Flow: --- O. Flow: ---

MODEL 150 S.P.M. --- LINEAR SIZE 5 1/2 x 12

SURVEYS: Air Feet --- Degrees ---

Weather --- Water --- Temp. ---

REMARKS

Best condition mud (try to clean to bottom from 6640)

WT/WATER & AIR & mixing GEL & ELUSTIC

VIS 30 - 8.6

DRILLER'S SIGNATURE J. Johnson

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		18	7'	2 7/8	5324	4.34	365		

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
						1 100	240
						2 "	"
						3 "	"
						4 "	"
						5 96	"

U. Flow: --- O. Flow: ---

MODEL 150 S.P.M. --- LINEAR SIZE 5 1/2 x 12

SURVEYS: Air Feet --- Degrees ---

Weather --- Water --- Temp. ---

REMARKS

RIG SER ✓ BOP

CIRC. MIX MUD CLEAN FILL

PULL OUT

DRILLER'S SIGNATURE H. Heigh

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		18	7"	2 3/8	5324	4.34	365		

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
						1 108	240
						2 "	"
						3 "	"
						4 "	"
						5 104	"

U. Flow: --- O. Flow: ---

MODEL 150 S.P.M. --- LINEAR SIZE 5 1/2 x 12

SURVEYS: Air Feet --- Degrees ---

Weather --- Water --- Temp. ---

REMARKS

FINISH OUT

MOVE 200 SK GEL TO HANGERS

UNIT

RUN GEL OFFSEAL DRAG

PRESSURE SQUARE

HOIST

W.D. GEL DRAG

DRILLER'S SIGNATURE J. Johnson

Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
830	20	45	1379	23 22	21 870	3640

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		18	7"	2 3/8	5324	4.34	365		

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
						1 108	240
						2 "	"
						3 "	"
						4 "	"
						5 104	"

U. Flow: --- O. Flow: ---

MODEL 150 S.P.M. --- LINEAR SIZE 5 1/2 x 12

SURVEYS: Air Feet --- Degrees ---

Weather --- Water --- Temp. ---

REMARKS

FINISH OUT

MOVE 200 SK GEL TO HANGERS

UNIT

RUN GEL OFFSEAL DRAG

PRESSURE SQUARE

HOIST

W.D. GEL DRAG

DRILLER'S SIGNATURE J. Johnson

FUEL USED	CEMENT RETURNS (YES-NO)	EQUIPMENT CHANGES	APPROVED BY OPERATOR'S REPRESENTATIVE	APPROVED BY TOOLPUSHER
			<u>[Signature]</u>	<u>[Signature]</u>

COM 42722



COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION INC 68-11 Husky #14644  
MAILING POINT

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
41	8 7/8	688	OUT	289279													

M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SUKLE					No. 2 PRES. SUKLE					1 68	240
VISCOSITY					MODEL 350					MODEL 150					2 68	
GEL					LINEAR SIZE 5/8 VIE					LINEAR SIZE 5/8 VIE					3 68	
W.L.	F.C.	pH.	DESILTER: Hours Op.				U. Flow				O. Flow				SURVEYS: At Feet Degree	
ADDITIVES: GENERAL:																

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES
6790	1 7/8	WRIGHT	9-68	8	11		1650	20	45	1379	23 22	1810	38 70	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SUKLE					No. 2 PRES. SUKLE					1 76	240
VISCOSITY					MODEL 300					MODEL 150					2 "	"
GEL					LINEAR SIZE 5/2 x 16					LINEAR SIZE 5/2 x 12					3 "	"
W.L.	F.C.	pH.	DESILTER: Hours Op.				U. Flow				O. Flow				SURVEYS: At Feet Degree	
ADDITIVES: CEMENT 1350 GAL GEL 1500 CALCIUM 3000																

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES
178	WRIGHT	9-68	8	11		1656	20	45	1377	23 22	1810	38 70		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SUKLE					No. 2 PRES. SUKLE					1 84	240
VISCOSITY					MODEL 350					MODEL 150					2 "	"
GEL					LINEAR SIZE 5/2					LINEAR SIZE 5/2					3 "	"
W.L.	F.C.	pH.	DESILTER: Hours Op.				U. Flow				O. Flow				SURVEYS: At Feet Degree	
ADDITIVES: GENERAL:																

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or Mat. Chkd	Fuel on Hand 12:01 a.m.	FUEL USED	CASING REPORT	RAN	ITS	CSC
Hydral					Rig Safety Chkd	Fuel Rec'd Today Today					
Pipe Rams					Kelly Cork Chkd	TOTAL					
Blind Rams					Fire Exting. Chkd	Fuel on Hand 11:59 p.m. (Gallons)					
TOICO RING ON BIT #											
Lover Operated											
1 Bell 112											

CONSERVATION BOARD COPY

LOCATION Inc 68-4 Husky Placid 450 SEC 111 TWP 55 RGE W DATE 7/20/20 DAYS FROM SPUD 70

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		19	7"	2 7/8"	56.24		935	5740	1338

Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
							1 68	240
							2 68	
							3 68	
							4 68	
							5 64	

REMARKS	TIME		
	START	STOP	INTVL
Reg service & check 150 ft	12:00	12:00	1/4
Finish cleaning bit hole to 2500'	12:00	12:30	3/4
run in to 360'	12:30	12:45	1/2
Circ	12:45	1:00	1/2
Finish cleaning bit hole	1:00	1:15	1/2
run in to 360'	1:15	1:30	1/2
12:00	1:30	2:00	1/2

U. Flow:	O. Flow:	SURVEYS	Weather	Water
		At Feet	Degrees	

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
1650	20	45	1379	7/22	1810	280

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		19	7"	2 7/8"	56.24		935	5740	1338

Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
							1 76	240
							2 "	"
							3 "	"
							4 "	"
							5 72	"

REMARKS	START	STOP	INTVL
RIG SER ✓ Bops	8:00	8:15	1/4
MIX MUD 1	8:15	10:00	1/4
RUN IN 21 STAND	10:00	10:30	1/2
RIG UP HALIBURTON	10:30	11:00	1/2
RUN PLUG # 3 CEMENT 135 BAG	11:00	12:00	1
PULL OUT	12:00	12:30	1/2
W.O.C.	12:30	4:00	3 1/2

U. Flow:	O. Flow:	SURVEYS	Weather	Water
		At Feet	Degrees	

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
1650	20	45	1379	7/22	1810	3540

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		18	7"	2 7/8"	52.45		935	5740	1338

Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
							1 84	240
							2 "	"
							3 "	"
							4 "	"
							5 80	4

REMARKS	START	STOP	INTVL
W.O.C.	4:00	6:00	2
RUN IN 34 STAND	6:00	7:00	1
NO CIRC OR PLUG	7:00	7:45	3/4
PULL OUT	7:45	8:00	1/4
RUN IN	8:00	10:00	2
Reg service & check 120 ft	10:00	10:30	1/2
check rig & mud	10:30	11:00	1
addition mud	11:00	12:00	1

FUEL USED	CEMENT RETURNS (YES/NO)	EQUIPMENT CHANGES	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME

FUEL ON HAND 12:01 a.m.	gals.	CASING REPORT	RAN	ITS	CSC	RENTAL EQUIPMENT ON HAND	TRANSFER #

FUEL RECD TODAY (ADD)	gals.	TO	KB USED	SAT	CEM	DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
						70		

FUEL ON HAND 11:59 p.m. (DEDUCT)	gals.	PLUS	PLUG DOWN	A.M.	P.M.	APPROVED BY OPERATOR'S REPRESENTATIVE	APPROVED BY TOOLPUSHERS
						<i>[Signature]</i>	<i>[Signature]</i>

COM 42721

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22

LOCATION *Truck ET 11 Rocky Bluff 44*

LSD *M* SEC *55*

MILES MOVED

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Ft	Ft up on Kelly
					1553.74			17	7"	2 1/8"	561.2		935		

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
41	8 5/8"	580	OUT	289279													

MUD	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No 1 PREC SURE					No 2 PREC SURE					1	44	240
VISCOSITY					MODEL 500					MODEL 500					2	44	"
GEL					LINER SIZE					LINER SIZE					3	44	"
W.L.											SURVEYS						
											At Feet Degrees						
W.L.											At Feet Degrees						
ADDITIVES:											Weather		Water				
GENERAL:											Temp.		Bois				

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
6790	1 7/8"	WRIGHT	1-687	6	10	187	1560	45	1379	1379	1379	1530	2860

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Ft	Ft up on Kelly
6790								19	7"	2 1/8"	561.2		935		1338

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

MUD	8 a.m.	10 a.m.	12 noon	4 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No 1 PREC SURE					No 2 PREC SURE					1	52	240
VISCOSITY					MODEL 500					MODEL 500					2	52	"
GEL					LINER SIZE					LINER SIZE					3	52	"
W.L.											SURVEYS						
											At Feet Degrees						
W.L.											At Feet Degrees						
ADDITIVES:											Weather		Water				
GENERAL:											Temp.		Bois				

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
6790	1 7/8"	WRIGHT	9-687	6	10	191	1560	45	1379	1379	1379	1530	3260

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Ft	Ft up on Kelly
6790								19	7"	2 1/8"	561.2		935		1338

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No 1 PREC SURE					No 2 PREC SURE					1	60	240
VISCOSITY					MODEL 500					MODEL 500					2	"	"
GEL					LINER SIZE					LINER SIZE					3	"	"
W.L.											SURVEYS						
											At Feet Degrees						
W.L.											At Feet Degrees						
ADDITIVES:											Weather		Water				
GENERAL:											Temp.		Bois				

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
6790	1 7/8"	WRIGHT	9-687	6	10 1/2		1560	20	45	1377	1377	1377	1810

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Ft	Ft up on Kelly
6790								19	7"	2 1/8"	561.2		935		1338

B.O.P.	Tested	Eloped Time	Pressure	Working & Seal Inspected Date	Crown & mat. Chk'd	Fuel on Hand 12 01 a.m.	CASING REPORT		RAN	JTS	CSG	REN
Hydral						Fuel Rec'd Today 1:00 p.m.						
Pipe Rams					Rig Savers Chk'd	FUEL TOTAL						
Blind Rams					Arms & Calk Chk'd	Fuel on Hand 11:00 p.m.						
TOTCO RING ON BIT #					Boiler Operated	FUEL USED	CEMENT RETURNS YES NO			EQUIPMENT CHANGE		

<p><i>Handwritten notes and signatures in a grid pattern.</i></p>												
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CONSERVATION BOARD COPY

LOCAT ON Ine FT. Hucky Blad 44 M 55 TWP     RGE     W     DATE Nov 23 1970  
 MAILING POINT     SHIPPING POINT     MILES MOVED     ROAD CONDITIONS     DAYS FROM SPUD 69

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				
4	19	7"	2 1/8	561.24	2.00	935	12618						
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
6 a.m.	6 a.m.	PUMP	12 m.n.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS				Next Oil Change		
		No 2					1	44		240			
		MODEL					2	44					
		S.P.W.					3	44					
		LINER SIZE					4	44					
							5	40					
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		Weather		Water	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Left on Spool							
560		45	1379		1550	3860							

REMARKS	TIME		
	START	STOP	INVL
Fix service + check 2013	12:00	12:15	1/4
Run in with pipe 3000' dry to	1:15	1:30	1/4
circ (had no ret returns)	1:30	1:45	1/4
Pull 2 stands + try to regain circ	1:45	2:00	3/4
+ continue this until regain circ at 2600'	2:00	2:15	1/4
Pull out	2:15	2:30	1/4
Run in with drilling string to	2:30	2:45	2
3000' feet	2:45	3:00	1/4
Try to break circ	3:00	3:15	1/4
FIRES			
DRILLER'S SIGNATURE <u>J. Robinson</u>			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				
	19	7"	2 1/8	561.24	2.00	935	12618						
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		Weather		Water	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Left on Spool							
560		45	1379		1550	3860							

REMARKS	TIME		
	START	STOP	INVL
CIRC THRU FILL UP LINE	8:00	8:30	1/2
RIG SER ✓ 30ps	8:30	8:45	1/4
PULL OUT 9 STANDS. CIRC NO RETURNS	8:45	9:30	3/4
FINISH OUT	9:30	10:30	1
RUN IN 20 STAND	10:30	11:00	1/2
MIX MUD IN TANKS	11:00	12:30	1 1/2
RUN CEMENT DRILL GEL PLUG #2	12:30	1:00	1/2
PULL OUT	1:00	1:30	1/2
WAIT ON PLUG	1:30	4:00	2 1/2
FIRES			
DRILLER'S SIGNATURE <u>J. Robinson</u>			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				
	19	7"	2 1/8	561.24	2.00	935	12618						
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		Weather		Water	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Left on Spool							
560		45	1379		1550	3860							

REMARKS	TIME		
	START	STOP	INVL
WAIT ON PLUG SER RIG ✓	4:00	6:00	2
RUN IN SLOW D.O. 1747 12 STANDS	6:00	7:00	1
CIRC.	7:00	8:00	1
Clean out string	8:00	12:00	4
FIRES			
DRILLER'S SIGNATURE <u>J. Robinson</u>			

FUEL ON HAND 12:01 a.m.		GALS		CASING REPORT		RAN		JTS		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER #	
FUEL REC'D TODAY (LOAD)		GALS		TOTAL		TO		SAX		CEM		DAYS FROM SPUD		TOTAL COMPANY TIME	
FUEL ON HAND 11:55 p.m. (Deduct)		GALS		PLUS		PLUG DOWN		A.M.		P.M.		EQUIPMENT CHANGES		TOTAL CONTRACTOR'S TIME	
FUEL USED		GALS		CEMENT RETURNS (YES/NO)		EQUIPMENT CHANGES		APPROVED BY OPERATOR REPRESENTATIVE		APPROVED BY TOOLPUSHER		TOTAL COMPANY TIME		TOTAL CONTRACTOR'S TIME	

COM 42720

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22 LOCATION *Zone 21 Pt. Hardy, Blount Co., Ga.* SEC 58' TWP

TOUR	M	I	D	N	I	G	H	T	S	From Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly	MILES MOVED											
																										No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.
TOUR	M	I	D	N	I	G	H	T	S	6990							19	7	2 1/2	856124	549	10	618													
										WEIGHT	No. 1	PREL SUKRE	No. 2	PREL SUKRE	1	20	240																			
										VISCOSITY	MODEL	5/2 X 16	MODEL	5/2 X 12	2	20	11																			
										GEL	LINER SIZE	5/2	LINER SIZE	5/2	3	20	11																			
										W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	4	20	11																		
										ADDITIONS:	GENERAL:	SURVEYS	At Feet	Degrees	5	16	11																			
										Drilling Line Record	118	WHIT	9-687	8	9	90	1379	45	1379	MAU22	1530	3860														
										From Footage																										
										DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly																		
										M U D	12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn	2 a.m.	4 a.m.	6 a.m.	M O T O R H O U R S	Next Oil Change										
WEIGHT	No. 1	PREL SUKRE	No. 2	PREL SUKRE	1	20	240																													
VISCOSITY	MODEL	5/2 X 16	MODEL	5/2 X 12	2	20	11																													
GEL	LINER SIZE	5/2	LINER SIZE	5/2	3	20	11																													
W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	4	20	11																												
ADDITIONS:	GENERAL:	SURVEYS	At Feet	Degrees	5	16	11																													
Drilling Line Record	118	WHIT	9-687	8	9	90	1379	45	1379	MAU22	1530	3860																								
From Footage																																				
DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly																												
M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	M O T O R H O U R S	Next Oil Change																				
WEIGHT	No. 1	PREL SUKRE	No. 2	PREL SUKRE	1	28	240																													
VISCOSITY	MODEL	5/2 X 16	MODEL	5/2 X 12	2	24	11																													
GEL	LINER SIZE	5/2	LINER SIZE	5/2	3	11	11																													
W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	4	11	11																												
ADDITIONS:	GENERAL:	SURVEYS	At Feet	Degrees	5	24	11																													
Drilling Line Record	10	WHIT	9-687	8	9	90	1379	45	1379	MAU22	1530	3860																								
From Footage																																				
DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly																												
M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	M O T O R H O U R S	Next Oil Change																				
WEIGHT	No. 1	PREL SUKRE	No. 2	PREL SUKRE	1	36	240																													
VISCOSITY	MODEL	5/2 X 16	MODEL	5/2 X 12	2	11	11																													
GEL	LINER SIZE	5/2	LINER SIZE	5/2	3	11	11																													
W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	4	11	11																												
ADDITIONS:	GENERAL:	SURVEYS	At Feet	Degrees	5	32	11																													
Drilling Line Record	10	WHIT	9-687	8	9	90	1379	45	1379	MAU22	1530	3860																								
From Footage																																				
DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly																												
M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	M O T O R H O U R S	Next Oil Change																				
WEIGHT	No. 1	PREL SUKRE	No. 2	PREL SUKRE	1	36	240																													
VISCOSITY	MODEL	5/2 X 16	MODEL	5/2 X 12	2	11	11																													
GEL	LINER SIZE	5/2	LINER SIZE	5/2	3	11	11																													
W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	4	11	11																												
ADDITIONS:	GENERAL:	SURVEYS	At Feet	Degrees	5	32	11																													
Drilling Line Record	10	WHIT	9-687	8	9	90	1379	45	1379	MAU22	1530	3860																								
From Footage																																				
DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly																												

Wait on

RIG UP  
RUN GELL  
DISPLACE  
PULL OUT

DISPLACE  
PULL OUT  
WAIT ON  
RUN IN 3  
PULL OUT  
Thy  
will cut  
Chasing

FIRES

LOCATION Trs E of Al. Keady Bluffly SEC 58 TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE Mar 22 '70

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DATE FROM \_\_\_\_\_ TO \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		19	7	2 7/8	856124	549	10618			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

REMARKS	TIME		
	START	STOP	INTVL
Wait on Orders	12:00	8:00	8

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES. SURE	1	20	240
MODEL	SIZE	2	20	"
150	5 1/2 x 12	3	20	"

SURVEYS		Weather		Water	
U. Flow	O. Flow	At Feet	Degrees		
		4	20		4
		5	20		4

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES. SURE	1	28	240
MODEL	SIZE	2	24	"
150	5 1/2 x 12	3	"	"

SURVEYS		Weather		Water	
U. Flow	O. Flow	At Feet	Degrees		
		4	"		"
		5	24		"

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES. SURE	1	36	240
MODEL	SIZE	2	"	"
150	5 1/2 x 12	3	"	"

SURVEYS		Weather		Water	
U. Flow	O. Flow	At Feet	Degrees		
		4	"		"
		5	32		"

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES. SURE	1	36	240
MODEL	SIZE	2	"	"
150	5 1/2 x 12	3	"	"

SURVEYS		Weather		Water	
U. Flow	O. Flow	At Feet	Degrees		
		4	"		"
		5	32		"

FUEL ON HAND		FUEL USED		TOTAL	
12.01	gal		gal		gal

RENTAL EQUIPMENT ON HAND		EQUIPMENT CHANGES	

APPROVED BY OPERATOR'S REPRESENTATIVE: *[Signature]*  
 APPROVED BY TOOLPUSHER: *[Signature]*  
 COM 42719

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO  
WELL

RIG NO 22

LOCATION INC BT 21 Husky Blockly S 21 M SEC 55 TWP

MAILING POINT

SHIPPING POINT

MILES MOVED

Table with columns: From, Footage, To, Hrs on Bottom, Wt Drill Pipe, Stands, Singles, DRILL COLLARS, No, O.D., I.D., Length, Air Wt, Sub Wt, CB Ft, Ft up on Kelly. Includes handwritten values like 6790, 148, 6153.74, 19, 7, 2 1/2, 54.24.

Table with columns: \* M U D, 12 mn, 2 a.m., 4 a.m., 6 a.m., PUMP, 12 mn, 2 a.m., 4 a.m., 6 a.m., MOTOR HOURS, Next Oil Change. Includes handwritten values for weight, viscosity, gel, and motor hours.

Table with columns: W.L., F.C., pH, DESILTER Hours Op, U Flow, O Flow, SURVEYS At Feet, Degree, Temp, Water. Includes handwritten values for desilter hours and surveys.

Table with columns: ADDITIVES, GENERAL. Includes handwritten notes like 'Redwood Libra 3000#' and 'Walnut shell - 1000#'. Also includes a table for Drilling Line Record with columns: Drilling Line Record, Size, Make, Serial No., No Lines, Trips, Ton Miles, Total Miles, Slip, Feet or Cut, At Miles, Date Slip or Cut, Next Slip, Ft Left on Spool.

Table with columns: From, Footage, To, Hrs on Bottom, Wt Drill Pipe, Stands, Singles, DRILL COLLARS, No, O.D., I.D., Length, Air Wt, Sub Wt, CB Ft, Ft up on Kelly. Includes handwritten values like 6790, 60, 6153.74, 19, 7, 2 1/2, 54.24.

Table with columns: \* M U D, 8 a.m., 10 a.m., 12 noon, 2 p.m., PUMP, 8 a.m., 10 a.m., 12 noon, 2 p.m., MOTOR HOURS, Next Oil Change. Includes handwritten values for weight, viscosity, gel, and motor hours.

Table with columns: W.L., F.C., pH, DESILTER Hours Op, U Flow, O Flow, SURVEYS At Feet, Degree, Temp, Water. Includes handwritten values for desilter hours and surveys.

Table with columns: ADDITIVES, GENERAL. Includes handwritten notes like 'GEL 6000#' and 'Quick Vis 3 GALS'.

Table with columns: From, Footage, To, Hrs on Bottom, Wt Drill Pipe, Stands, Singles, DRILL COLLARS, No, O.D., I.D., Length, Air Wt, Sub Wt, CB Ft, Ft up on Kelly. Includes handwritten values like 6790, 60, 6153.74, 19, 7, 2 1/2, 54.24.

Table with columns: \* M U D, 4 a.m., 6 p.m., 8 p.m., 10 p.m., PUMP, 4 a.m., 6 p.m., 8 p.m., 10 p.m., MOTOR HOURS, Next Oil Change. Includes handwritten values for weight, viscosity, gel, and motor hours.

Table with columns: W.L., F.C., pH, DESILTER Hours Op, U Flow, O Flow, SURVEYS At Feet, Degree, Temp, Water. Includes handwritten values for desilter hours and surveys.

Table with columns: B.O.P., Tested, Elapsed Time, Pres sure, Packing & Seal Inspected Date, Crown o mat, Chkd, R. a Savers, Chkd, Kindy Co X, Chkd, Fuel on Hand, TOTAL, FUEL USED, CASING REPORT, RAN, ITS, CSG, M, TO, KB USED, SAK, CEM, PLUS, FUEL DOWN, A M P M, D, FUEL USED, CEMENT RETURNS (YES NO), EQUIPMENT CHAN.

LOCATION: INC BT 21 Husky Blocky SEC 55 TWP RGE DATE: Mar 21

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub. Wt	CB Ft	Ft up on Kelly
74	19	7	2 7/8	2 1/2	561.24	3.44	106.48	205	205

REMARKS  
 Finish pumping LCM away  
 Rig service & check R.C.D's  
 Mix batch LCM + mud  
 Pump away LCM  
 Mix batch of mud & LCM  
 Pump away  
 Fuel 5'6" 200 BBLs mud & LCM #

TIME		
START	STCP	INTEV
12:00	12:15	1/4
12:15	12:30	1/4
12:30	12:45	3/4
12:45	1:00	3/4
1:00	1:15	3/4

PUMP		MOTOR HOURS		Next Oil Change				
4 am	6 am	12 mn	2 am	4 am	6 am	1	262	240
No 2		PUMP PRESSURE		S.P.M.		Table Torque		T. B. G.
MODEL		LINE SIZE		SURVEYS		Weather		Water
150		5 1/2 V 12		At Feet Degrees		Temp.		Bbls

Pump away  
 Mix batch LCM  
 WAIT ON ORDERS!  
 CHANGE OIL IN ALL FLOOR MOTORS & FANTS  
 CHANGE OIL IN LIGHT PLANT & FILTERS  
 SERVICES AIR CLEANERS  
 VIS 36 GALS

TIME		
START	STCP	INTEV
2:00	2:30	1/2
2:30	3:00	3
3:00	4:00	4

Total Miles	Feet of Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
1289	30		1025	MAR 18	1300	2675

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub. Wt	CB Ft	Ft up on Kelly
74	19	7	2 7/8	2 1/2	561.24	3.44	106.48	205	205

WAIT ON ORDERS!  
 WAIT ON ORDERS!  
 WAIT ON ORDERS!  
 WAIT ON ORDERS!  
 WAIT ON ORDERS!  
 WAIT ON ORDERS!

TIME		
START	STCP	INTEV
4:00	4:15	1/2
4:15	4:30	1/2
4:30	4:45	1/2

PUMP		MOTOR HOURS		Next Oil Change				
8 pm	10 pm	4 pm	6 pm	8 pm	10 pm	1	12	240
No 2		PUMP PRESSURE		S.P.M.		Table Torque		T. B. G.
MODEL		LINE SIZE		SURVEYS		Weather		Water
150		5 1/2 V 12		At Feet Degrees		Temp.		Bbls

Total Miles	Feet of Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
1289	30		1025	MAR 18	1300	2675

FUEL ON HAND		FUEL USED		TOTAL	
12:01 a.m.	gals	12:01 a.m.	gals	12:01 a.m.	gals
FUEL USED		FUEL USED		TOTAL	
gals		gals		gals	

CASING REPORT		RENTAL EQUIPMENT ON HAND	
RAN	IS	CSC	CEM
TOTAL		TOTAL	
gals		gals	

Approved by Operator's Representative: *[Signature]*  
 Approved by Toolpusher: *[Signature]*  
 COM 42718



**COMMONWEALTH DRILLING**  
DAILY DRILLING LOG  
DIRECTIONS TO  
WELL

RIG NO **22** LOCATION **INC ST AL Hasky Blackfly** SECTION **SS TWP**  
A LING POINT

From	Footage	To	Hrs. on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
6790				148	152	74		19	7	2 7/8	56124	549	543	218	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	15510	OUT	289279													

MUD				PUMP				PUMP				MOTOR HOURS					
WEIGHT	84			No 1	PRE. SUK	1	MIXING	No 2	PRE. SUK	1	238	240					
VISCOSITY	30	47	20	MODEL				MODEL		2	238						
GEL				LINER SIZE	5 1/2 x 16			LINER SIZE	5 1/2 x 16	3	238						

ADDITIONS: **QUICK UG - 100 #** GENERAL: **SODA ASH - 160 #** **GRAPHITE - 3 #**  
**KWIK SEAL - 400 #** **CAUSTIC - 100 #**  
**GEL - 1200 #** **CANNON - 25 #** **HAGATREAT - 25 #**

Drilling Line Record	Size	Make	Serial No	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
178 WR1617	8	WR1617	9-557	8	8	184	1269	30		25	11/11/5	1200	3675

From	Footage	To	Hrs. on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
6790				148	152	74		19	7	2 7/8	56124	549	543	218	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	15510	OUT	289279													

MUD				PUMP				PUMP				MOTOR HOURS					
WEIGHT				No 1	PRE. SUK	1	MIXING	No 2	PRE. SUK	1	246	240					
VISCOSITY				MODEL				MODEL		2	246						
GEL				LINER SIZE	5 1/2 x 16			LINER SIZE	5 1/2 x 12	3	246						

ADDITIONS: **QUICK SEAL 4000 #** GENERAL: **CAUSTIC 600 #** **SODA ASK 600 #**  
**GEL 1400 #** **QUICK VIS 4 #** **REDWOOD LIBER 400 #**

Drilling Line Record	Size	Make	Serial No	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
178 WR1617	8	WR1617	9-557	8	8	184	1269	30		10.25	11/11/5	1300	3675

From	Footage	To	Hrs. on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
6790				148	152	74		19	7	2 7/8	56124	549	543	218	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	15510	OUT	289279													

MUD				PUMP				PUMP				MOTOR HOURS					
WEIGHT				No 1	PRE. SUK	1	MIXING	No 2	PRE. SUK	1	254	240					
VISCOSITY				MODEL				MODEL		2	254						
GEL				LINER SIZE	5 1/2 x 16			LINER SIZE	5 1/2 x 12	3	254						

ADDITIONS: **GEL - 3560 #** GENERAL: **REDWOOD + LIBER - 1400 #**  
**KWIK SEAL - 2400 #** **WARRANT SNEEL - 1750**  
**CAUSTIC - 200** **QUICK-VIS - 4 GPM.**

Drilling Line Record	Size	Make	Serial No	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
178 WR1617	8	WR1617	9-557	8	8	184	1269	30		10.25	11/11/5	1300	3675

LOCATION INC BT 21 Husky Blackfly LSECTION 55 TWP 55 RGE W DATE March 20 1970

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
74		19	7"	2 1/8"	56124	577	935	20618	

REMARKS			TIME		
	START	STOP	INTVL		
Big service + hole ROPs	12:00	12:15	1/4		
Mix mud in tanks + LCM	12:15	12:40	2/4		
Displace 500 gal of hole to mud	12:40	1:05	3/4		
Pull out to 2000 feet	1:05	1:00	1/4		
Mix mud in tanks + LCM	1:00	1:00	2		

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PREP. SURE	1	238	240
MODEL	150	2	238	
LINE	5 1/2 x 12	3	238	
SIZE		4	238	
		5	238	

SURVEYS		Weather		Water	
U. Flow	O. Flow	Temp.			
-160#	GRAPHITE-3#				
-400#					
TREAT-25#					

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
74		19	7"	2 1/8"	56124	577	935	20618	

REMARKS			TIME		
	START	STOP	INTVL		
MIX MUD ADD L.C.M.	8:00	9:00	1		
PUMP AWAY	9:00	9:20	1/2		
MIX BATCH MUD & LCM	9:30	11:45	2 1/4		
PUMP AWAY	11:45	12:15	1/2		
MIX BATCH MUD	12:15	3:15	3		
PUMP AWAY	3:15	4:00	3/4		

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PREP. SURE	1	246	240
MODEL	150	2	246	"
LINE	5 1/2 x 12	3	246	"
SIZE		4	246	"
		5	230	"

SURVEYS		Weather		Water	
U. Flow	O. Flow	Temp.			
600#	Line 100#				
529-gal	Redwood FIBER 400#				
120#					

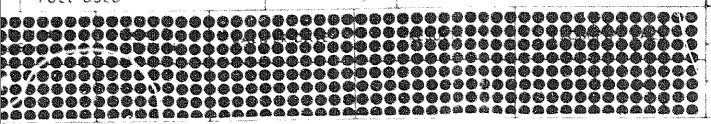
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
74		19	7"	2 1/8"	56124	577	935	20618	

REMARKS			TIME		
	START	STOP	INTVL		
PULL OUT 15 STANDS	4:10	4:30	1/2		
MIX UP BATCH MUD	4:30	7:00	2 1/2		
PUMP AWAY	7:00	7:50	1/2		
PULL OUT	7:30	8:30	1		
Run in 19 stands at 510'	8:25	9:00	1/2		
Mix batch of mud + seal	9:00	11:30	2 1/2		
Pump away LCM	11:30	12:00	1/2		

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PREP. SURE	1	254	240
MODEL	150	2	254	
LINE	5 1/2 x 12	3	254	
SIZE		4	254	
		5	230	

SURVEYS		Weather		Water	
U. Flow	O. Flow	Temp.			
FIBRE-1400#					
SNEEL-1750#					
S-4 GAL.					

CASING REPORT				RENTAL EQUIPMENT ON HAND		TRANSFER #	
Fuel on Hand 12:01 p.m.	90%	RAN	JTS	CSG			
Fuel Rec'd Today (Total)	90%	TO	KB USED	SAX	CEM		
TOTAL	90%	PLUS	PLUG DOWN	A M P M	DAYS FROM SPUD	66	
Fuel on Hand 11:59 p.m. (Total)	90%	CEMENT RETURNS (YES NO)		EQUIPMENT CHANGES			



Approved by Operator's Representative: *[Signature]*  
 Approved by Toolpusher: *[Signature]*

COM 42717

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22 LOCAT ON INC FT 31 Nashua Newbury SEC 22 TWP 53

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
6754	25	6779	7 1/4	148	6153.74		19	7	2 7/8	56124	56124	5.47	725	6.18	11		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	XSSR	OUT	21423	20-12	58	93	25 1/4			1	473	68				

Drilling  
Log Service  
Subway  
Drilling

MUD	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No 1 PRES. SUK	475	475	475	475	No 2 PRES. SUK					1	214	240
VISCOSITY	WATER				MODEL	68	68	68	68	MODEL					2	214	
GEL					LINE SIZE	5/2 X 1 1/2				LINE SIZE	5/2 X 1 1/2			3	214		
W.L.	F.C.	pH.	#		DESILTER: Hours Op.	U. Flow		O. Flow		SURVEYS		At Feet		Degrees	4	214	
ADDITIVES: <u>CAKON - 50</u> GENERAL:																	
<u>HAGATREAT - 25</u>																	
<u>GRAPHITE - 8</u>																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES			
110	WRIGHT	9-687	8	7		1025		20			MARCH 16	1300	3875	FIRES			

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
6779	11	6790	4 1/2	148m	6153.74		19	7	2 7/8	56124	56124	5.47	725	6.18	11		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	XSSR	OUT	21423	20	58	104	28 1/4			1	475	68				

DRILLING  
RIG SER  
PULL OU  
CHANCE

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No 1 PRES. SUK	475	475	475	475	No 2 PRES. SUK					1	222	240
VISCOSITY	WATER				MODEL	65				MODEL					2	222	
GEL					LINE SIZE	5/2 X 1 1/2				LINE SIZE	5/2 X 1 1/2			3	222		
W.L.	F.C.	pH.	#		DESILTER: Hours Op.	U. Flow		O. Flow		SURVEYS		At Feet		Degrees	4	222	
ADDITIVES: <u>GRAPHITE 4</u> GENERAL:																	
Temp. Water																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES			
118	WRIGHT	9-687	8	7		1025		20			MARCH 16	1300	3875	FIRES			

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
6790				148	6153.74		19	7	2 7/8	56124	56124	5.47	725	6.18	11		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
41	8 3/4	XSSR	OUT	289279													

CHANGE  
RIG SER  
RUN IN  
Break

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No 1 PRES. SUK	450				No 2 PRES. SUK					1	230	240
VISCOSITY	WATER				MODEL	65				MODEL					2	230	
GEL					LINE SIZE	5/2 X 1 1/2				LINE SIZE	5/2 X 1 1/2			3	230		
W.L.	F.C.	pH.	#		DESILTER: Hours Op.	U. Flow		O. Flow		SURVEYS		At Feet		Degrees	4	230	
ADDITIVES: GENERAL:																	
Temp. Water																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES			

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown Joint Chk'd	Fuel on Hand 2:01 a.m.	CASING REPORT		RAN	TS	CSC
Hydral					Rig Safety Chk'd	Fuel Rec'd Today Total	TOTAL		AB USED	SAY	EM
Pipe Rams					Key Chk'd	Fuel on Hand 1:59 p.m. Total	TOTAL		FEELS	DOWN	DA
Blind Rams					Fire Ex. Chk'd	FUEL USED	CEMENT RETURNS		YES	NO	
TOICO RING ON BIT <u>110-41</u> Boiler Operated <u>24</u> Hrs.											

CONSERVATION BOARD COPY

LOCATION INC ET 21 Huskey Alaska LSD M SEC 55 TAP W RGE W DATE March 11 70

MAILING POINT \_\_\_\_\_ SH PING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Ft. up on Kelly	
74		19	7	2 7/8	561.24	7.35	20.618	11		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
93	2 5/4			1	475	68		R	U	N

REMARKS	TIME		
	START	STOP	INVTL
Drilling	1:00	1:00	1
Log service + hook	1:00	1:15	1/4
Subway	1:15	1:45	1/2
Drilling	1:45	8:00	6 1/4

4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS Next Oil Change

475	475	No 2	PREP. SUKRE					1	214	240
68	68	MODEL	150					2	214	
		LINE SIZE	5 1/2 x 12					3	214	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		
				4		214				
				5		198				

Fuel 5 1/2" DRILLER'S SIGNATURE John Johnson

Total Miles 0.85 Slip 20 Feet or Cut Mar 10 At Miles 1300 Date Slip or Cut 30 12 Next Slip 30 12 Ft. Left on Spool

Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Ft. up on Kelly	
3.74		19	7	2 7/8	561.24	7.35	20.618	11		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
104	2 3/4			1	475	68		1	1	I

REMARKS	TIME		
	START	STOP	INVTL
DRILLING	8:00	12:30	4 1/2
RIG SERV BOPS	12:30	12:45	1/4
PULL OUT W/PT ± HD TIGHT	12:45	3:15	2 1/2
CHANGE SHAKER SCREEN	3:15	3:45	1/2
CHANGE BREAK PADS FAR SIDE	3:45	4:00	1/4

12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change

TRIP	No 2	PREP. SUKRE						1	222	240
	MODEL	150						2	222	
	LINE SIZE	5 1/2 x 12						3	222	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		
				4		222				
				5		306				

FIRES 11. Weich DRILLER'S SIGNATURE

Total Miles 2.5 Slip 20 Feet or Cut March 10 At Miles 1300 Date Slip or Cut 38 15 Next Slip 38 15 Ft. Left on Spool

Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Ft. up on Kelly	
.74		19	7	2 7/8	561.24	7.35	20.618	11		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

REMARKS	TIME		
	START	STOP	INVTL
CHANGE BREAK PADS	4:00	6:00	2
RIG SERVCHECK BLIND RANG	6:00	6:15	1/4
RUN IN WIRE ± 41	6:15	8:00	1 3/4
Break circ	8:00	8:20	1/2
Clean 160' to btm	8:20	10:00	1 40
Work - at neck	10:00	11:00	1 00
Full - 15' go in mud	11:00	12:00	1 00

Total Miles \_\_\_\_\_ Slip \_\_\_\_\_ Feet or Cut \_\_\_\_\_ At Miles \_\_\_\_\_ Date Slip or Cut \_\_\_\_\_ Next Slip \_\_\_\_\_ Ft. Left on Spool

FUEL USED \_\_\_\_\_ CASING REPORT \_\_\_\_\_ RAN \_\_\_\_\_ ITS \_\_\_\_\_ CSG \_\_\_\_\_ RENTAL EQUIPMENT ON HAND \_\_\_\_\_ TRANSFER # \_\_\_\_\_

Fuel Rec'd Today (add) \_\_\_\_\_ TOTAL \_\_\_\_\_ # B USED \_\_\_\_\_ DAY \_\_\_\_\_ CEM \_\_\_\_\_ A P M \_\_\_\_\_ DAYS FROM SPUD 65 TOTAL COMPANY TIME \_\_\_\_\_ HRS \_\_\_\_\_ TOTAL CONTRACTOR'S TIME \_\_\_\_\_ HRS \_\_\_\_\_

Fuel on Hand: 59 p.m. (deduct) \_\_\_\_\_ PLUS \_\_\_\_\_ PLO DOWN \_\_\_\_\_ EQUIPMENT CHANGES \_\_\_\_\_

Approved by Operator's Representative \_\_\_\_\_ Approved by Toolpusher \_\_\_\_\_

COM 42715

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

WELL NO 22

LOCATION FINE EARTH MUCKY SANDS

SEC M 55

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	OD	ID	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly
6686	11	6697	2 1/4	148M	6091.56			19	7"	2 1/8	561.24	503.49	504.93	1338	1312

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	SSR	OPEN	21423	15-20	58	11	2 1/4	60	3	1	450	68				

M.U.D.	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1	450	475	475	475	No. 2					1	190	240

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip	Next Slip	Fr Left on Spool
1 1/8	WRIGHT	9-687	8	7		1025	30		1025	11/18	1300	3770	

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	OD	ID	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly
6697	25	6722	7 1/2	148	6091.56			19	7"	2 1/8	561.24	503.49	504.93	1338	1339

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	SSR	OUT	21423	20	58	36	10 1/4			1	450	68				

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1	450	475	475	475	No. 2					1	198	240

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip	Next Slip	Fr Left on Spool
1 1/8	WRIGHT	9-687	8	7		1025	30		1025	11/18	1300	3870	

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No	OD	ID	Length	Air Wt	Sub Wt	C.B. Ft	Fr up on Kelly
6722	32	6754	7 3/4	148M	6122.58			19	7"	2 1/8	561.24	503.49	504.93	1338	1338

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
40	8 3/4	SSR	OPEN	21423	18-20	58	68	18			1	450	68				

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1	450	475	475	475	No. 2					1	206	240

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip	Next Slip	Fr Left on Spool
1 1/8	WRIGHT	9-687	8	7		1025	30		1025	11/18	1300	3870	

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or Matt. Chkd	Rg Savers Chkd	Kelly Cork Chkd	Flow Equip Chkd	Fuel on Hand 12:01 a.m.	Fuel Ret'd Today (Total)	TOTAL	Fuel on Hand 11:59 p.m.	FUEL USED	CASING REPORT	RAN	TS	CSG	CM	AW	PM	DAYS

<p>TOPTCO RING ON BIT = 40</p> <p>Boiler Operated 24 Hrs</p>																					
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CONSERVATION BOARD COPY

LOCATION FWK-1544 Husky Block SD M SEC 53 TWP W RGE W DATE March 18 1970  
 MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS DAYS FROM SPUD

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
56		19	7"	2 1/8"	561.24	5.549	9.35	6.18	1338	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
11	27	60	3	1	450	68				

REMARKS	TIME		
	START	STOP	INTVL
F. NISH IN	12:00	1:00	1
RIG SERVICE / BOIS	1:00	1:15	1/4
BRACK SER.	1:15	3:00	1 3/4
REAM TO BOTTOM - non 30'	3:00		
S-ILL		5:00	3
UBRILL	5:00	7:45	1 1/2
BRACK SER 360 97	7:45	8:00	1/4

4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS Next Oil Change

Total Miles	Slip	Feet of Cut	At Miles	Date Slip	Next Slip	Ft. Left on Spool
025	30		1025	March 18	1300	370

FIRES John Ryan DRILLER'S SIGNATURE

12 noon 2 a.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
56		19	7"	2 1/8"	561.24	5.549	9.35	6.18	1338	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
36	10 1/4			1	450	68				

REMARKS	TIME		
	START	STOP	INTVL
Survey	8:00	8:50	1/2
Engineer check logs	8:50	9:00	1/4
Drilling	9:00	4:00	7 1/2

8 a.m. 10 a.m. PUMP 4 a.m. 6 a.m. 8 a.m. 10 a.m. MOTOR HOURS Next Oil Change

Total Miles	Slip	Feet of Cut	At Miles	Date Slip	Next Slip	Ft. Left on Spool
025	30		1025	March 18	1300	3870

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	4:00	5:00	1
RIG SER V BOP	5:00	5:15	1/4
DRILLING	5:15	12:00	6 3/4

Fuel on Hand 12 01 a.m. galls CASING REPORT

Fuel Rec'd Today (add) galls TOTAL

Fuel on Hand 11 59 a.m. galls FUEL USED

FIRES M. Heid DRILLER'S SIGNATURE

APPROVED BY OPERATOR REPRESENTATIVE [Signature]

APPROVED BY TOOLPUSHER [Signature]

COM 42714

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

WELL NO. 20 LOCAL 1155

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
4310	12	4902	7 1/2	1300	4	24		1	7	6 1/2	67	36		2216	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
22	8 3/4	MSS	Open	KR20	35	58	1105				1	420	68		7	8	1

M.U.D.	12 am	2 am	4 am	6 am	PUMP	12 mn	2 am	4 am	6 am	PUMP	12 mn	2 am	4 am	6 am	MOTOR HOURS	Next Oil Change			
WEIGHT	Sterilized				No. 1	PREL. SUCK	450			No. 2	PREL. SUCK				1	64	246		
VISCOSITY	Water				MODEL	S.P.M.	68			MODEL	S.P.M.				2				
GEL	Water				LINEZ SIZE		5/16	16		LINEZ SIZE		5/16	16		3				
W.L.	F.C.		pH		DESILTER: Hours Op.		U. Flow		O. Flow		SURVEYS		At Feet		Degrees		4		
ADDITIVES: Halogen				GENERAL: 50 lbs.															
Halogen				50 lbs.															
Halogen				50 lbs.															

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
4902					4	24		21	7	6 1/2	67	36		3212	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
23	8 3/4	SCMS	Open	576183							1	450	68				

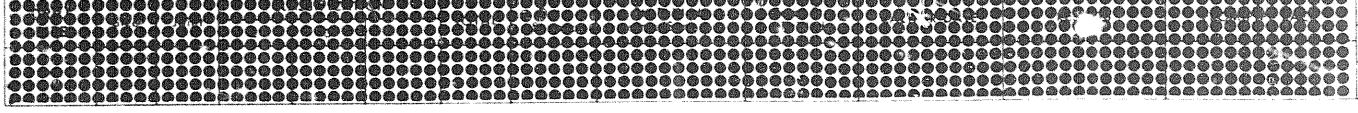
M.U.D.	8 am	10 am	12 noon	2 pm	PUMP	8 am	10 am	12 noon	2 pm	PUMP	8 am	10 am	12 noon	2 pm	MOTOR HOURS	Next Oil Change			
WEIGHT	Sterilized water				No. 1	PREL. SUCK	450			No. 2	PREL. SUCK				1	72	240		
VISCOSITY	Sterilized water				MODEL	S.P.M.	68			MODEL	S.P.M.				2				
GEL	Water				LINEZ SIZE		5/16	16		LINEZ SIZE		5/16	16		3				
W.L.	F.C.		pH		DESILTER: Hours Op.		U. Flow		O. Flow		SURVEYS		At Feet		Degrees		4		
ADDITIVES: Halogen				GENERAL: 45 lbs.															
Halogen				45 lbs.															
Halogen				45 lbs.															

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
4902	27	4929	5 1/2	1300	4	24		21	7	6 1/2	67	36		3212	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
23	8 3/4	Open		576183	35	68	27	5 1/2	120	3 1/2	1	450	68				

M.U.D.	4 pm	6 pm	8 pm	10 pm	PUMP	4 pm	6 pm	8 pm	10 pm	PUMP	4 pm	6 pm	8 pm	10 pm	MOTOR HOURS	Next Oil Change			
WEIGHT	Sterilized				No. 1	PREL. SUCK	450			No. 2	PREL. SUCK				1	80	240		
VISCOSITY	Water				MODEL	S.P.M.	68			MODEL	S.P.M.				2				
GEL	Water				LINEZ SIZE		5/16	16		LINEZ SIZE		5/16	16		3				
W.L.	F.C.		pH		DESILTER: Hours Op.		U. Flow		O. Flow		SURVEYS		At Feet		Degrees		4		
AD: YES:				GENERAL								47.4							

B.O.P.	Tested	Elapsed Time	Pres. sure	Packing & Seal Inspected Date	Crown & mat. Chk d	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT		RAN	CSG	REN	
Hvair					Rig Savers Chk d	Fuel Rec'd Today (add)	gals.	TOTAL		TO	KB USED	SAX	CEM
Pipe Rams					Kelly Cork Chk d	Fuel on Hand 11:59 p.m. (add)	gals.	PLUS		PLUG DOWN	A.M.	P.M.	DAYS
Blind Rams					Fire Faw. Chk d	FUEL USED	gals.	CEMENT RETURNS		YES	NO	EQUIPMENT CHANGES	
TOTCO RING ON BIT # 23		Boiler Operated 24		Hrs									



CONSERVATION BOARD COPY

LOCATED 16 mi S. of Sunday Creek Hwy N155 SEC. 1 TWP. 1 RGE. 1 DATE 7.6.22

MAILING POINT: SH. POINT MILES MOVED: 1 ROAD CONDITIONS: GOOD DAYS FROM SPUD: 175

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
68		21	7	2 1/2	6172		365	32 1/2	12		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
1105				1	420	68		7	8	1	
MOTOR HOURS											
4 a.m.	6 a.m.	PUMP		12 m.	2 p.m.	4 a.m.	6 a.m.	Next Oil Change			
✓	✓	No. 2	RES. URE				1	64	246		
✓	✓	MODEL	S.P.M.				2				
16			LINE SIZE	5 1/2	4 1/2		3				
SURVEYS											
U. Flow					O. Flow					At Feet	Degrees
4											
5											
Weather											
Water											
Temp.											
Bbls											

REMARKS	TIME		
	START	STOP	INTVL
Drill	12:00	1:20	1 1/2
Drill	1:00	1:45	1/2
Drill	1:45	1:55	1/2
Drill	7:15	8:00	2 1/2

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
68		21	7	2 1/2	6172		365	32 1/2	22		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
1105				1	450	68					
MOTOR HOURS											
12 noon	2 a.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	Next Oil Change			
✓	✓	No. 2	RES. URE				1	72	240		
✓	✓	MODEL	S.P.M.				2				
16			LINE SIZE	5 1/2	4 1/2		3				
SURVEYS											
U. Flow					O. Flow					At Feet	Degrees
4											
5											
Weather											
Water											
Temp.											
Bbls											

REMARKS	TIME		
	START	STOP	INTVL
Drill	8:00	11:45	1 3/4
Drill	11:45	12:00	1/4
Drill	10:20	11:45	3/4
Drill	10:25	12:30	1 1/2
Drill	12:15	1:00	2 1/2

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
72		21	7	2 1/2	6172		365	32 1/2	18		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
27	5 1/2	120	3 1/2	1	450	68					
MOTOR HOURS											
8 p.m.	10 p.m.	PUMP		4 a.m.	6 a.m.	8 p.m.	10 a.m.	Next Oil Change			
✓	✓	No. 2	RES. URE				1	80	240		
✓	✓	MODEL	S.P.M.				2				
16			LINE SIZE	5 1/2	4 1/2		3				
SURVEYS											
U. Flow					O. Flow					At Feet	Degrees
4											
5											
Weather											
Water											
Temp.											
Bbls											

REMARKS	TIME		
	START	STOP	INTVL
Drilling	4:00	6:45	2 3/4
Drill	6:45	7:00	1/4
Drill	7:00	7:15	1/2
Drill	7:30	11:55	2 3/4
Drill	11:15	12:00	1 1/2

FUEL REPORT		CASING REPORT		RAN		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER #	
Fuel on Hand 12:01 a.m.	gals										
Fuel Rec'd Today (add)	gals										
<b>TOTAL</b>	gals	10									
Fuel on Hand 11:59 p.m. (deduct)	gals										
<b>FUEL USED</b>	gals										
EQUIPMENT CHANGES		PLUS		PLUG DOWN		A.M. P.M.		DAYS FROM SPUD		TOTAL COMPANY TIME HRS	
EQUIPMENT CHANGES		CEM. RETURNS		YES NO		EQUIPMENT CHANGES		DAYS FROM SPUD		TOTAL CONTRACTOR'S TIME HRS	
Approved by Operator's Representative										[Signature]	
Approved by Toolpusher										[Signature]	

COM 42653



**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 2 LOCATION 21 LSD. SE SEC. 1 TWP. 1  
 MAILING POINT SHIPPING POINT MILE

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	Temp.	Fr. up on Kelly	
4595	115	4710	7/4	120	4039-43	1	DRILL COLLARS	21	7"	2 1/2"	69.20		Sub. Wt. 3480	Temp. 28	Fr. up on Kelly 28	
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Coiled	Hrs.	Required	Hrs.	Pump No.	Pump Pressure	S.P.M.	Sub. Wt.	Temp.	Fr. up on Kelly
39	8 1/2"	API	CCW	R.R. 20	30	58	415	8 1/2"			1	150	68	48	2 1/2"	
WEIGHT	AERATED				No. 1	450	450	450	No. 2					48	2 1/2"	
VISCOSITY	WATER				MODEL	68	68	68	MODEL							
GEL					LINE SIZE	5 1/2"	1 1/2"	1 1/2"	LINE SIZE							
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:	SURVEYS		At Feet		Degrees		Temp.	Water	Bbls	
ADDITIVES: GENERAL:																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Slip	Temp.	Water	Bbls	FIRES
4710							DRILL COLLARS									
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Coiled	Hrs.	Required	Hrs.	Pump No.	Pump Pressure	S.P.M.	Sub. Wt.	Temp.	Fr. up on Kelly
39	8 1/2"	API	CCW	R.R. 20	30	58	415	8 1/2"			1	150	68	48	2 1/2"	
WEIGHT	AERATED				No. 1	450	450	450	No. 2					48	2 1/2"	
VISCOSITY	WATER				MODEL	68	68	68	MODEL							
GEL					LINE SIZE	5 1/2"	1 1/2"	1 1/2"	LINE SIZE							
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:	SURVEYS		At Feet		Degrees		Temp.	Water	Bbls	FIRES
ADDITIVES: GENERAL:																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Slip	Temp.	Water	Bbls	FIRES
4710							DRILL COLLARS									
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Coiled	Hrs.	Required	Hrs.	Pump No.	Pump Pressure	S.P.M.	Sub. Wt.	Temp.	Fr. up on Kelly
39	8 1/2"	API	CCW	R.R. 20	30	58	415	8 1/2"			1	150	68	48	2 1/2"	
WEIGHT	AERATED				No. 1	450	450	450	No. 2					48	2 1/2"	
VISCOSITY	WATER				MODEL	68	68	68	MODEL							
GEL					LINE SIZE	5 1/2"	1 1/2"	1 1/2"	LINE SIZE							
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:	SURVEYS		At Feet		Degrees		Temp.	Water	Bbls	FIRES
ADDITIVES: GENERAL:																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Slip	Temp.	Water	Bbls	FIRES

Drilling  
 Big  
 Summary  
 Drilling

LOCATION: LAKE CHARLES TWP. SEC. 13 RGE. W. DATE 11/21/1961

MAILING POINT: LAKE CHARLES SHIPPING POINT: LAKE CHARLES MILES MOVED: 0 ROAD CONDITIONS: GOOD

Drill Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.P.F.	Ft. up on Kelly
21	7"	2 1/2	6 1/2	19.20				

Drill Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	G.B. Shank	Ft. up on Kelly
21	7"	2 1/2	6 1/2	19.20			3480	26

Drill Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	G.B. Shank	Ft. up on Kelly
21	7"	2 1/2	6 1/2	19.20			3480	26

REMARKS	TIME		
	START	STOP	INT'L
Drilling	8:00	9:00	1/2
Big surge & check BOP	9:00	9:15	1/4
Survey	9:15	10:15	1/2
Drilling	10:15	4:00	5 3/4

REMARKS	TIME		
	START	STOP	INT'L
Drilling	4:00	5:15	1 1/2
Big surge & check BOPs	5:15	5:30	1/4
Drilling	5:30		

REMARKS	TIME		
	START	STOP	INT'L
Drilling	4:00	5:15	1 1/2
Big surge & check BOPs	5:15	5:30	1/4
Drilling	5:30		

Oil on Hand 12.01 a.m.	gals.							
Oil Rec'd Today (add)	gals.							
<b>TOTAL</b>	gals.	10	AB USED	SAX	IX	CEM		
Oil on Hand 11.59 a.m. (deduct)	gals.							
<b>FUEL USED</b>	gals.							
CEMENT RETURNS - (YES, NO)								
Plug Down								
Days from SPUD								
Total Company Time	HRS							
Total Contract Time	HRS							
Approved by Operator's Representative								
Approved by Toolpusher								

PLEASE SHOW FOOTAGE MADE DURING CONTROLLED DRILLING AS WELL AS HOURS

COM-33111

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22

LOCATION *IN REAL LUCKY LUCKY*

SEC 25 TWP

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR	MIDNIGHT	8 AM	4 PM	MIDNIGHT	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly								
					4284	66'	4350	7 3/4	126"	36	36		70	21	7"	3 3/8"	69"	20	3000	3000	3000	3000	3000	3000				
B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.										
I	20	8 3/4"	MBB	OPEN	550980	30	58	558	5 1/4			1	450	68							DRKG							
S																												
					MUD	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP				12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP				MOTOR HOURS			Next Oil Change			
					WEIGHT					No. 1	PRES. SURE	450	450	450	450	No. 2	PRES. SURE					1	16	248				
					VISCOSITY	AERATED				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.					2	16	"				
					GEL	WATER				NO. 1	LINER SIZE	5 1/2	5 1/2	5 1/2	5 1/2	NO. 2	LINER SIZE					3	16	"				
					W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow	O. Flow	SURVEYS				At Feet	Degrees	4	16	"	Weather	Water				
					ADDITIVES:		GENERAL:		CALGON X 30 - 50 lbs Hag ATREAT - 45 lbs																Temp	Bols		
					Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Feet Left on Spool	FIRES									
TOUR	MIDNIGHT	8 AM	4 PM	MIDNIGHT	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly								
					4350	70	4420	7 1/4	126"	40	41		21	7"	2 7/8"	70"	20	3000	3000	3000	3000	3000	3000	3000				
B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.										
I	20	8 3/4"	MBB	OPEN	250980	30	58	633	6 1/4			1	450	68							R U N							
S																												
					MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP				8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP				MOTOR HOURS			Next Oil Change			
					WEIGHT					No. 1	PRES. SURE	450	450	450	450	No. 2	PRES. SURE					1	24	240				
					VISCOSITY	AERATED				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.					2	24	"				
					GEL	WATER				NO. 1	LINER SIZE	5 1/2	5 1/2	5 1/2	5 1/2	NO. 2	LINER SIZE					3	24	"				
					W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow	O. Flow	SURVEYS				At Feet	Degrees	4	24	"	Weather	Water				
					ADDITIVES:		GENERAL:		X 30 50 X 10 50																Temp	Bols		
					Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Feet Left on Spool	FIRES									
TOUR	MIDNIGHT	8 AM	4 PM	MIDNIGHT	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly								
					4420	74'	4494	7 3/4	126"	41	41		21	7"	2 7/8"	74"	20	3000	3000	3000	3000	3000	3000	3000				
B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.										
I	22	8 3/4"	MBB	OPEN	RR#20	30	58	697	7 1/4			1	450	68							DPLG							
S																												
					MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP				MOTOR HOURS			Next Oil Change			
					WEIGHT	AERATED				No. 1	PRES. SURE	450	450	450	450	No. 2	PRES. SURE					1	32	240				
					VISCOSITY	WATER				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.					2		"				
					GEL	WATER				NO. 1	LINER SIZE	5 1/2	5 1/2	5 1/2	5 1/2	NO. 2	LINER SIZE					3		"				
					W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow	O. Flow	SURVEYS				At Feet	Degrees	4		"	Weather	Water				
					ADDITIVES:		GENERAL:																		Temp	Bols		
					Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Feet Left on Spool	FIRES									
					B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crownomatic Chk'd	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT			RAN	MS	CSG										
					Hydral					Rig Savers Chk'd	Fuel Rec'd Today (add)	gals.																
					Pipe Rams					Kelly Cock Chk'd	TOTAL	gals.	10	KB USED	SA	CEM												
					Blind Rams					Fire Equip Chk'd	Fuel on Hand 11 59 p.m. (deduct)	gals.	PLS	PLUG DOWN	A.M.	P.M.	DAYS											
					TOTCO RING ON BIT	Boiler Operated:	24	Hrs.			FUEL USED	gals.	CEMENT RETURNS (YES/NO)			GENERAL												

CONSERVATION BOARD COPY

LOCATION IN ETAL WAGGLEY HUSKY LSD 19 SEC 55 TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE 7-22-1976

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	SB Ft.	Ft. up on Kelly								
70	21	7	2 3/4	6 9/16	365	34.86	11.42										
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
528	5 1/4			1	450	68		DRLG									
4 a.m.		6 a.m.		PUMP		12 m.		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS		Next Oil Change	
450	450	No. 2	PRE-SURE	TANK		1	16	248									
68	68	MODEL	S.P.M.	5 1/2 X 1 1/2		2	16	"									
		150	LINER SIZE			3	16	"									
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		4		16					
										5							
										Weather		Water					
										Temp.							
Total Miles		Feet or Slip		Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool					

REMARKS			TIME		
LITILL			START	STOP	INVL
LITILL			10:00	10:50	2
LITILL			10:00	10:15	1/4
LITILL			10:15	10:45	1/2
LITILL			10:45	4:00	5 1/4
FIRES			DRILLER'S SIGNATURE		

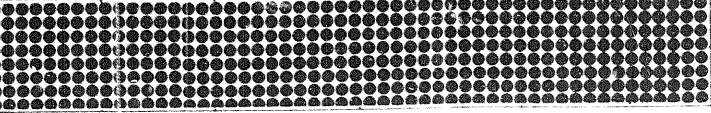
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	SB Ft.	Ft. up on Kelly								
41	21	7	2 3/4	6 9/16	365	34.86	9										
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
623	6 1/4			1	450	68		RUN									
12 noon		2 a.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 a.m.		MOTOR HOURS		Next Oil Change	
450	450	No. 2	PRE-SURE	TANK		1	24	240									
68	68	MODEL	S.P.M.	5 1/2 X 1 1/2		2	24										
		150	LINER SIZE			3	24										
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		4		24					
										5		24					
										Weather		Water					
										Temp.							
Total Miles		Feet or Slip		Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool					

REMARKS			TIME		
Drilling			START	STOP	INVL
Drilling			10:00	10:15	1/4
Drilling			10:15	10:45	1/2
Drilling			10:45	4:00	5 1/4
FIRES			DRILLER'S SIGNATURE		

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	SB Ft.	Ft. up on Kelly								
610	21	7	2 3/4	6 9/16	365	34.86	9										
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
697	7 1/4			1	450	68		DRLG									
8 a.m.		10 p.m.		PUMP		4 a.m.		6 p.m.		8 p.m.		10 a.m.		MOTOR HOURS		Next Oil Change	
✓	✓	No. 2	PRE-SURE	TANK		1	32	240									
✓	✓	MODEL	S.P.M.	5 1/2 X 1 1/2		2											
		150	LINER SIZE			3											
U. Flow		O. Flow		SURVEYS		At Feet		Degrees		4							
										5							
										Weather		Water					
										Temp.							
Total Miles		Feet or Slip		Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool					

REMARKS			TIME		
Drilling			START	STOP	INVL
Drilling			4:00	5:30	1 1/2
Drilling			5:30	8:45	1/4
Drilling			8:45	1:00	6 1/4
FIRES			DRILLER'S SIGNATURE		

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG	EQUIPMENT CHANGES		TRANSFER #
Fuel Rec'd Today (add)	gals.								
TOTAL	gals.			TO	KB USED	SAT	CEM		
Fuel on Hand 11 59 p.m. (deduct)	gals.			PLUS	PLUG DOWN	A M P M	DAYS FROM SPUD 38		TOTAL COMPANY TIME HRS
FUEL USED	gals.			CEMENT RETURNS (YES/NO)	GENERAL				TOTAL CONTRACTOR'S TIME HRS



Approved by Operator's Representative *[Signature]*  
 Approved by Toolpusher *[Signature]*

COM-33110

D COPY

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22

LOCATION IN FINAL LOCALITY

SEC. 7

TWP. 35

MILES MOVED

MAILING POINT

SHIPPING POINT

TOUR MIDNIGHT TO 8 AM TOUR 8 AM TO 4 PM TOUR 4 PM TO MIDNIGHT

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly
4101	17'	4130	7 1/2	125	37	2	21	7"	2 3/4"	6 1/2"	69.1	3165	232.6	240	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
19	8 3/4"	MDB	OPEN	250980	30-33	58	328	34 1/2			1	450	68				

MUD	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1 PRES. SUKRE	420	425	425	425	No. 2 PRES. SUKRE					1	216	240
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.	JANKS				2	72	
GEL	WATER				LINER SIZE	5 1/2	5 1/2	5 1/2	5 1/2	LINER SIZE	150				3	216	
W.L.	F.C.				DESILTER: Hours Op:	U. Flow				O. Flow:				SURVEYS			
ADDITIVES: Cal Gon x30 GENERAL: 100lb																	
HAGATREAX 100lb																	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly
4130	81	4211	7 1/4	125	32	2	21	7"	2 3/4"	6 1/2"	69.1	3165	232.6	240	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
20	8 3/4"	MDB	OPEN	250980	25-30	58	409	41 3/4			1	450	68				

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1 PRES. SUKRE	425	425	450	450	No. 2 PRES. SUKRE					1	224	240
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.	JANKS				2	80	
GEL	WATER				LINER SIZE	5 1/2	5 1/2	5 1/2	5 1/2	LINER SIZE	150				3	224	
W.L.	F.C.				DESILTER: Hours Op:	U. Flow				O. Flow:				SURVEYS			
ADDITIVES: CALGON X30 GENERAL: 50 lb																	
HAGATREAX 50 lb																	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly
4211	73	4284	7 3/4	126	38	2	21	7"	2 3/4"	6 1/2"	69.1	3165	232.6	240	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
39	8 3/4"	MDB	OPEN	250980	30	58	482	49 1/2			1	450	68				

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1 PRES. SUKRE	450	425	450	450	No. 2 PRES. SUKRE					1	8	240
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.	JANKS				2	8	
GEL	WATER				LINER SIZE	5 1/2	5 1/2	5 1/2	5 1/2	LINER SIZE	150				3	8	
W.L.	F.C.				DESILTER: Hours Op:	U. Flow				O. Flow:				SURVEYS			
ADDITIVES: GENERAL: changed oil in all motors																	

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a.m.c. Chk d	Fuel on Hand 12 01 a.m.	gals	CASING PORT	RAN	JTS	CSG	EQUIPM
Hydril												
Pipe Rams					Rig Savers Chk d	Fuel Rec'd Today (add)	gals					
Blind Rams					Kelly Cock Chk d	TOTAL	gals	10	XB USED	SAT	CEM	
TOTCO RING ON BIT #22						Fuel on Hand 11 59 p.m. (deduct)	gals	PLS		PLUG DOWN	A.M P.M	DAYS FR
Boiler Operated: 24 Hrs.						FUEL USED	gals	CEMENT RETURNS	YES NO	GENERAL		

COM 11 E

CONSERVATION BOARD COPY

LOCATION IN ETHAL KNOCKLY HURSE LSD 4 SEC 35 TWP.            RGE.            W. DATE 2 FEB 44 1944

MAILING POINT            SHIPPING POINT            MILES MOVED            ROAD CONDITIONS           

DRILL COLLARS											
Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
2	21	7"	2 3/8"	69.21		365	2426				
PUMP											
Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	Next Oil Change	
3 3/4			1	450	68					240	
MOTOR HOURS											
4 a.m.	6 a.m.	12 m.	2 a.m.	4 a.m.	6 a.m.						
4:00	4:30	PANKS					1	2:16	240		
4:40	6:00						2	3:22			
6:00						3	5:16				
SURVEYS											
U. Flow		O. Flow		At Feet	Degree						
				4	119	6 1/2	4	2:10			
				5			5	3:10			
Total Miles Slip <u>          </u> Feet or Cut <u>          </u> At Miles <u>          </u> Date Slip or Cut <u>          </u> Next Slip <u>          </u> Ft. Left on Spool <u>          </u>											

REMARKS			TIME		
START	STOP	INVL	START	STOP	INVL
2:00	2:30	1/4	2:00	2:30	1/4
2:30	3:00	1/4	2:30	3:00	1/4
3:00	3:30	1/4	3:00	3:30	1/4
3:30	4:00	1/4	3:30	4:00	1/4
4:00	4:30	1/4	4:00	4:30	1/4
4:30	5:00	1/4	4:30	5:00	1/4

DRILL COLLARS											
Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
2	21	7"	2 3/8"	69.21		365	2426				
PUMP											
Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	Next Oil Change	
4 3/4			1	450	68					240	
MOTOR HOURS											
12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.						
4:50	4:50	PANKS					1	2:24	240		
6:00	6:00						2	3:00			
SURVEYS											
U. Flow		O. Flow		At Feet	Degree						
				4	211	5%	4	2:18			
				5			5	2:18			
Total Miles Slip <u>          </u> Feet or Cut <u>          </u> At Miles <u>          </u> Date Slip or Cut <u>          </u> Next Slip <u>          </u> Ft. Left on Spool <u>          </u>											

REMARKS			TIME		
START	STOP	INVL	START	STOP	INVL
4:00	4:30	1/4	4:00	4:30	1/4
4:30	5:00	1/4	4:30	5:00	1/4
5:00	5:30	1/4	5:00	5:30	1/4
5:30	6:00	1/4	5:30	6:00	1/4
6:00	6:30	1/4	6:00	6:30	1/4
6:30	7:00	1/4	6:30	7:00	1/4

DRILL COLLARS											
Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
2	21	7"	2 3/8"	69.21		365	2426				
PUMP											
Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	Next Oil Change	
4 3/4			1	450	68					240	
MOTOR HOURS											
8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.						
4:50	4:50	PANKS					1	3:00	240		
6:00	6:00						2	3:00			
SURVEYS											
U. Flow		O. Flow		At Feet	Degree						
				4	316		4	3:00			
				5	236		5	2:36			
Total Miles Slip <u>          </u> Feet or Cut <u>          </u> At Miles <u>          </u> Date Slip or Cut <u>          </u> Next Slip <u>          </u> Ft. Left on Spool <u>          </u>											

REMARKS			TIME		
START	STOP	INVL	START	STOP	INVL
4:00	4:30	1/4	4:00	4:30	1/4
4:30	5:00	1/4	4:30	5:00	1/4
5:00	5:30	1/4	5:00	5:30	1/4
5:30	6:00	1/4	5:30	6:00	1/4
6:00	6:30	1/4	6:00	6:30	1/4
6:30	7:00	1/4	6:30	7:00	1/4

FUEL ON HAND 12 01 a.m.				CASING PORT				EQUIPMENT CHANGES			
gals				RAN				DRILLER'S SIGNATURE			
gals				JTS				TRANSFER #			
gals				CSG							
TOTAL				KB USED				SAV			
gals				CEM							
FUEL ON HAND 11 59 p.m. (deduct)				PLUG DOWN				DAYS FROM SPUD.			
gals				A M P M				37			
FUEL USED				CEMENT RETURNS (YES/NO)				GENERAL			
gals											

TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
HRS	HRS

Approved by Operator's Representative *[Signature]*  
Approved by Toolpusher *[Signature]*

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG

RIG NO. 22

LOCATION J. N. C. LT AL BLACKLY HURRY LSD IN 55 TWP

DIRECTIONS TO WELL

MAILING POINT WHITE HOLE N.Y.

SHIPPING POINT

MILES MOVED

TOUR	MIDNIGHT TO	B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly					
																														From Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands
			3971	89			4060	7 1/2	130	3389.52	36	1										21	7"	2 3/4	69.21		3.65	34.86	29					
			20	8 3/4	M88	NONE	250990	20-22	58	263	256				1	450	68																	

MUD	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next O. Change	
WEIGHT					No. 1 PRES. SURE	450	450	✓	✓	No. 2 PRES. SURE	ONTAKS				1	192	240
VISCOSITY	AERATED WATER				MODEL	68	68	✓	✓	MODEL	5 1/2 X 12				2	48	"
GEL					DESILTER: Hours Op.	4025	670			DESILTER: Hours Op.					3	192	"
W.L.	F.C.	pH.			DESILTER: Hours Op.					DESILTER: Hours Op.					4	186	"
ADDITIVES: <u>HAZARTEAT - 50 #</u>																	
ADDITIVES: <u>CARBON - 50 #</u>																	

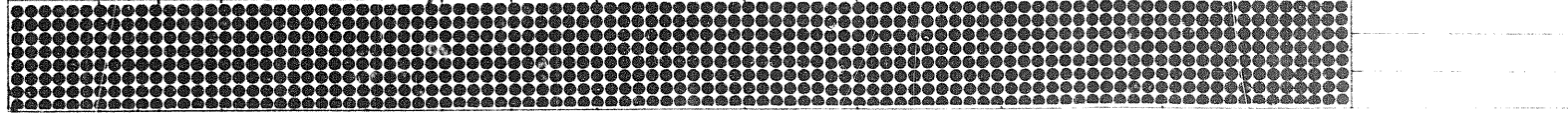
TOUR	MIDNIGHT TO	B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly			
																														From Footage	To	Hrs. on Bottom
			4060	16			4076	1 1/2	138	3389.52	36	1										7	7"	2 3/4	69.21		3.65	34.86	29			
			20	8 3/4	M88	OPEN	250980	20-22	58	279	27				1	450	68															
			21	6 3/4	CHRS	✓																										

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 a.m.	MOTOR HOURS	Next O. Change	
WEIGHT	AERATED WATER				No. 1 PRES. SURE	450			600	No. 2 PRES. SURE	TANKS				1	200	240
VISCOSITY					MODEL	68		40		MODEL	5 1/2 X 12				2	56	"
GEL					DESILTER: Hours Op.					DESILTER: Hours Op.					3	200	"
W.L.	F.C.	pH.			DESILTER: Hours Op.					DESILTER: Hours Op.					4	194	"
ADDITIVES: <u>P.G. SOAP 5 GALLONS</u>																	

TOUR	MIDNIGHT TO	B	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
																														From Footage	To
			4076																			21	7"	2 3/4	69.21						
			21	6 3/4	CHRS	✓	EC12902	15	65		5																				
			20	8 3/4	M88	OPEN	250980				5																				

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 a.m.	MOTOR HOURS	Next O. Change	
WEIGHT	AERATED WATER				No. 1 PRES. SURE	650	825			No. 2 PRES. SURE	TANKS				1	208	240
VISCOSITY					MODEL	29	29			MODEL	5 1/2 X 12				2	64	"
GEL					DESILTER: Hours Op.					DESILTER: Hours Op.					3	208	"
W.L.	F.C.	pH.			DESILTER: Hours Op.					DESILTER: Hours Op.					4	202	"
ADDITIVES: <u>P.G. SOAP 5 GALLONS</u>																	

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or mat. Chk d	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	UTS	CSG	EQUIP
Hydral					Rig Savers Chk d	Fuel Ret. d Today (add)	gals.					
Pipe Rams					Kelly Cork Chk d	TOTAL	gals.	10	AB USED	SAM	CEM	
Blind Rams					Fire Equip Chk d	Fuel on Hand 11:59 p.m. (deduct)	gals.	FUEL	PLUS	PLUG DOWN	A.M. P.M.	DAYS FR
TOTCO RING ON BIT #	20	Boiler Operated:	24	Hrs.		FUEL USED	gals.	CEMENT RETURNS (YES/NO)			GENERAL	



LOCATION I. N. C. AT BLACKFLY HUSKY LSD. N 55 W TWP. 55 RGE. W DATE FEB 18 1967

MAILING POINT WHITE HOLE, Y. T. SHIPPING POINT WHITE HOLE, Y. T. MILES MOVED 3486 ROAD CONDITIONS DRILL

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL
1	21	7"	2 3/4"	6 1/2"	192	3.65	3486	28		DRILL	12:00	3:30	3 1/2
2	263	2 5/8"			450	68				SURVEY (111 211 5 101)	3:30	4:00	1/2
										U.C.L.	4:00	7:00	4

PUMP		MOTOR HOURS		SURVEYS	
4 a.m.	6 a.m.	12 noon	2 a.m.	4 a.m.	6 a.m.
✓	✓	No. 2	PRES. SURE	ON TANKS	
✓	✓	MODEL	S.P.M.		
		C150	5 1/2 x 12		
U. Flow:		O. Flow:		SURVEYS	
				At Feet	Degrees
				4	186
				5	186

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL
1	21	7"	2 3/4"	6 1/2"	192	3.65	3486	28		DRILL	7:00	9:30	1 1/2
2	279	2 7/8"			450	68				HOIST	9:30	11:30	2
										PUMP with 20' SBLs	11:30	12:00	3
										Run in	12:00	1:00	2
										CIRCULATE & Drop Ball	1:00	2:30	1 1/2
										CUT CORP # 3 FROM 40 76-10	2:30	4:00	1 1/2

PUMP		MOTOR HOURS		SURVEYS	
8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.
		No. 2	PRES. SURE	TANKS	
		MODEL	S.P.M.		
		C150	5 1/2 x 12		
U. Flow:		O. Flow:		SURVEYS	
				At Feet	Degrees
				4	208
				5	208

FUEL USED		CASING REPORT		EQUIPMENT CHANGES		TRANSFER #	
Fuel on Hand 12:01 a.m.	gals.	RAN	JTS	CSG			
Fuel Rec'd Today (add)	gals.						
TOTAL	gals.	TO	KB. USED	SAX	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M.	P.M.		
FUEL USED	gals.	CEMENT RETURNS - (YES NO)	GENERAL				

APPROVED BY OPERATOR'S REPRESENTATIVE: *[Signature]*  
 APPROVED BY TOOLPUSHER: *[Signature]*  
 DAYS FROM SPUD: 36  
 TOTAL COMPANY TIME: \_\_\_\_\_ HRS  
 TOTAL CONTRACTOR'S TIME: \_\_\_\_\_ HRS  
 COM-33108



**COMMONWEALTH DRILLING LTD.**  
DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION LINC ETAL BLACKLEY HUSKY LSD M SEC 55 TWP \_\_\_\_\_ MILES MOVED \_\_\_\_\_

TOUR MIDNIGHT TO 8 AM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	Fr. up on Kelly			
	3797	27	3824	3 1/4	128	3140.37	2		21	7"	6 1/2"	619.21		315	3476	15		
B.I.T.S.	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	20	8 3/4	M88	MONF	250980	20	58	27	3 1/4	10	7 1/4	1	400	68				

M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1	PRES. SURE	400					No. 2	PRES. SURE	400	1	240	
VISCOSITY	AIR 970D				MODEL	S.P.M.	68					MODEL	S.P.M.	68	2	24	
GEL	WATER				D-500	LINER SIZE	5 1/2 X 16					D-500	LINER SIZE	5 1/2 X 16	3		
W.L.	F.C.				pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:			
ADDITIVES: <b>CALGON-100</b> GENERAL: <b>HABATREAT-100</b>																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Lett on Spool	FIRES			

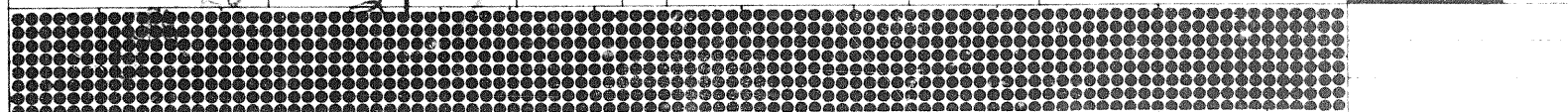
TOUR 8 AM TO 4 PM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	Fr. up on Kelly			
	3824	62	3886	7 1/2	128	3309.77	4		21	7"	6 1/2"	619.21		315	3476			
B.I.T.S.	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	20	8 3/4	M88	OPEN	250980	40-22	58	89	10 3/4			1	400	68				

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1	PRES. SURE	400	400	400	400	No. 2	PRES. SURE	400	1			
VISCOSITY	AERATED				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.	MUD ROLLS	2			
GEL	WATER				D-500	LINER SIZE	5 1/2 X 16					D-500	LINER SIZE	5 1/2 X 16	3		
W.L.	F.C.				pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:			
ADDITIVES: <b>CALGON-50</b> GENERAL: <b>HABATREAT-50</b>																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Lett on Spool	FIRES			

TOUR 4 PM TO MIDNIGHT	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	Fr. up on Kelly			
	3886	85	3971	7 1/4	130	3295.70	1		21	7"	6 1/2"	619.21		315	3476			
B.I.T.S.	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	20	8 3/4	M88	OPEN	250980	20-22	55	17 1/4	18			1	400	68				

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1	PRES. SURE	450	430	400	400	No. 2	PRES. SURE	TANKS	1	184	240	
VISCOSITY	AERATED				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.	TANKS	2	40		
GEL	WATER				D-500	LINER SIZE	5 1/2 X 16					D-500	LINER SIZE	5 1/2 X 16	3	184	
W.L.	F.C.				pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:			
ADDITIVES: <b>CALGON-50</b> GENERAL: <b>HABATREAT-50</b>																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Lett on Spool	FIRES			

B.O.P.	Tested	Elapsed Time	Pres. sure	Packing & Seal Inspected Date	Crownomatic Chk'd	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT		RAN	IS	CEG	EQUIP
Hvdril					Rig Savers Chk'd	Fuel Rec'd Today (add'l)	gals.						
Pipe Rams					Kelly Cork Chk'd	TOTAL	gals.						
Blind Rams					Fire Equip Chk'd	Fuel on Hand 11:59 p.m. (incl. left)	gals.						
FUEL RING ON BIT # 20							Boiler Operated: 24 Hrs		PLUS				
							FUEL USED	gals.	CEMENT RETURNS		YES NO	GENERAL	



LOCATION LNC ET AL BLACKLEY HUSKY LSD. M SEC 55 TWP. RGE. W. DATE FEB 17 1970  
 MAILING POINT WHITE HORSE SHIPPING POINT MILES MOVED ROAD CONDITIONS

2	Singles	DRILL COLLARS	No. 21	O.D. 7"	I.D. 6 1/2"	Length 619.21	Air Wt. 315	Sub. Wt. 348.25	Ft. up on Kelly 15
27	Drilled or Cored	Hrs. 3 1/4	Reamed 10	Hrs. 1 1/4	Pump No. 1	Pump Pressure 400	S.P.M. 68	Table Torque	T. B. G.

7 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
400	68	No. 2	PRE-SURE	55	35	6	1	240
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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REMARKS	TIME		
	START	STOP	INTVL
PLUG UP VIB SERVIC BOPS	12:00	12:15	1/4
PICK UP BIT 540 SHOCK SUB AND CHANGE OUT SUBS	12:15	1:15	1
TRIP IN	1:15	3:15	2
VALVE	3:45	4:30	3/4
BREAK CIRC	4:30	4:45	1/4
BEAN RAT HOLE	4:45	5:00	3/4

97	Singles	DRILL COLLARS	No. 21	O.D. 7"	I.D. 6 1/2"	Length 619.21	Air Wt. 365	Sub. Wt. 348.25	Ft. up on Kelly 23
89	Drilled or Cored	Hrs. 10 3/4	Reamed	Hrs. 1	Pump No. 1	Pump Pressure 400	S.P.M. 68	Table Torque	T. B. G.

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
400	68	No. 2	PRE-SURE	55	35	6	1	240
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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REMARKS	TIME		
	START	STOP	INTVL
LET ILL	7:00	7:30	1/2
SURVEY 3034	7:30	8:45	1 1/2
15:19 SERVICE VIB	7:45	10:00	2 1/4
DRILL 6 3/4 TO 6 5/8	10:00	4:00	6

10	Singles	DRILL COLLARS	No. 21	O.D. 7"	I.D. 6 1/2"	Length 619.21	Air Wt. 365	Sub. Wt. 348.25	Ft. up on Kelly 23
174	Drilled or Cored	Hrs. 18	Reamed	Hrs. 1	Pump No. 1	Pump Pressure 400	S.P.M. 68	Table Torque	T. B. G.

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
400	68	No. 2	PRE-SURE	55	35	6	1	240
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
-------------	------	-------------	----------	------------------	-----------	-------------------

REMARKS	TIME		
	START	STOP	INTVL
LET ILL	4:00	4:45	3/4
VIB SERVICE V BOPS	4:45	5:00	1/4
DRILL	5:00	8:00	3
SURVEY	2:00	2:30	1/2
DRILL	2:30	12:00	3 1/2

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	JTS	CEG
Fuel Rec'd Today (add)	gals.	TO	KB USED	SA	CEM
TOTAL	gals.	PLUS	PLUG DOWN	A.M.	P.M.
Fuel on Hand 11:59 p.m.	gals.	CEMENT RETURNS (YES/NO)	GENERAL		

EQUIPMENT CHANGES	DRILLER'S SIGNATURE	TRANSFER #
DAYS FROM SPUD	35	TOTAL COMPANY TIME HRS
TOTAL CONTRACTOR'S TIME HRS		



Approved by Operator's Representative: *R. J. Smith*  
 Approved by Toolpusher: *[Signature]*

**COMMONWEALTH DRILLING LTD.**

**DAILY DRILLING LOG**

DIRECTIONS TO WELL

RIG NO. 22 LOCATION 11111111111111111111 LSD 55 SEC 15 TWP 15  
 MAILING POINT 504 3242 SHIPPING POINT W. 7. 4825 MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
3784	47	3787	7 3/4	128	33			21	7"	23	619.21				954 15		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SMI	30	576170	18-20	58	503	724			1	350	68				

MUD	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY	mixed water				MODEL	S.P.M.				MODEL	S.P.M.				2	
GEL					MODEL	LINER SIZE				MODEL	LINER SIZE				3	
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow		O. Flow		SURVEYS		At Feet	Degrees	4			
ADDITIVES: GENERAL																
CALGON - 50 # LAGATMENT - 50 #																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES		

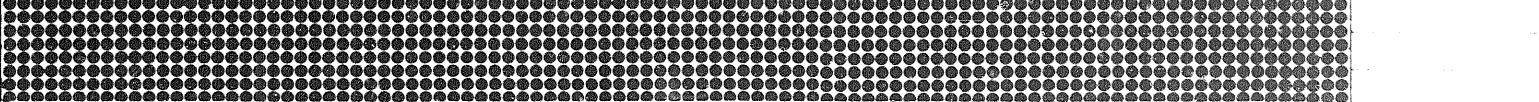
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
3786	1	3787	1/2	138"				21	7"	23	619.21				7822		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SMI	30	576170	20	58	504	73			1	350	68		2	1	I
19	6 3/4	CHRT															

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY	APPROX				MODEL	S.P.M.				MODEL	S.P.M.				2	
GEL	WATER				MODEL	LINER SIZE				MODEL	LINER SIZE				3	
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow		O. Flow		SURVEYS		At Feet	Degrees	4			
ADDITIVES: GENERAL																
CALGON - 50 # LAGATMENT - 50 #																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
3787	10	3797	3 1/4	128	33			21	7"	23	619.21				3.65 18.22		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
19	6 3/4	CHRT	5	5014915	8	65	10	3/4			1	800	32				

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY	FRIATED				MODEL	S.P.M.				MODEL	S.P.M.				2	
GEL	WATER				MODEL	LINER SIZE				MODEL	LINER SIZE				3	
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow		O. Flow		SURVEYS		At Feet	Degrees	4			
ADDITIVES: GENERAL																
CALGON - 50 # LAGATMENT - 50 #																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES		

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or Gate Chk'd	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT				EQUI
Hydriil					Rig Savers Chk'd	Fuel Rec'd Today (add)	gals.	RAN	ITS	CSG		
Pipe Rams					Kelly Cock Chk'd	TOTAL	gals.	TO	KB USED	SAB	CEM	
Blind Rams					Fire Equip Chk'd	Fuel on Hand 11:59 p.m. (deduct)	gals.	FELIS	IN	AM	P.M.	DAYS
TOTCO RING ON BIT # 18		Boiler Operated:	24	Hrs.		FUEL USED	gals.	CEMENT RETURNS		YLS	401	GENERAL: —



LOCATION *1. N. C. 2. E. N. 3. W. 4. S. 5. SEC* TWP. RGE. W. DATE *11/16* 196  
 MAILING POINT *W. 7. 4. 2. S.* SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
03		72 1/2		21	7"	2 3/4	69.21	57.45	3.65	9.54	13
Drilled or Cored		Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
03		72 1/2			2	350	68				

REMARKS			TIME		
START	STOP	INTVL	START	STOP	INTVL
8:00	8:30	1/2			
8:30	10:30	2			
10:30	11:30	1			
11:30	12:00	1/2			
12:00	2:00	2			
2:00	3:00	1			
3:00	4:00	1			

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES. SURE	1		
MODEL	S.P.W. LINER SIZE	2		
650	5 1/2 x 12	3		
U. Flow	O. Flow	4		
		5		

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
04		73		21	7"	2 3/4	69.21	57.45	3.65	78.22	
Drilled or Cored		Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
04		73			1	350	68		2	1	I

REMARKS			TIME		
START	STOP	INTVL	START	STOP	INTVL
8:00	8:30	1/2			
8:30	10:30	2			
10:30	11:30	1			
11:30	12:00	1/2			
12:00	2:00	2			
2:00	3:00	1			
3:00	4:00	1			

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
05		34		21	7"	2 3/4	69.21	57.45	3.65	78.22	
Drilled or Cored		Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
05		34			1	800	32				

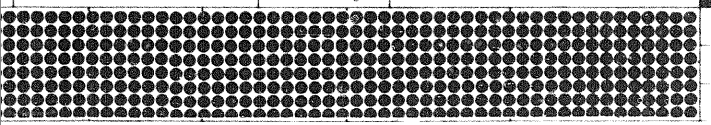
REMARKS			TIME		
START	STOP	INTVL	START	STOP	INTVL
4:00	4:15	1/4			
4:15	4:30	1/4			
4:30	7:45	3 1/4			
7:45	8:30	3/4			
8:30	12:00	3 1/2			

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly
06		34		21	7"	2 3/4	69.21	57.45	3.65	78.22	

REMARKS			TIME		
START	STOP	INTVL	START	STOP	INTVL
4:00	4:15	1/4			
4:15	4:30	1/4			
4:30	7:45	3 1/4			
7:45	8:30	3/4			
8:30	12:00	3 1/2			

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	PTS	CSG	EQUIPMENT CHANGES	DRILLER'S SIGNATURE	TRANSFER #
Fuel Rec'd Today (add)	gals.	TOTAL	TO	KB. USED	SAX	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS	DOWN	A.M.	P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	gals.	CEMENT RETURNS (YES/NO)	GENERAL			34	HRS	HRS

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	PTS	CSG	EQUIPMENT CHANGES	DRILLER'S SIGNATURE	TRANSFER #
Fuel Rec'd Today (add)	gals.	TOTAL	TO	KB. USED	SAX	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS	DOWN	A.M.	P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	gals.	CEMENT RETURNS (YES/NO)	GENERAL			34	HRS	HRS



Approved by Operator's Representative *R. H. Dable*  
 Approved by Toolpusher *[Signature]*

COPY COM-33106

**COMMONWEALTH DRILLING LTD.**

**DAILY DRILLING LOG**

DIRECTIONS TO WELL

RIG NO. 22

LOCATION 110 Fm 1000

LSD N SEC 7 TWP 10

MAILING POINT WILLIAMSBURG

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly
3127	43	3670	7 1/2	126	32	248	21	7	2 3/4	1 1/2	167	7.3	16.7	9.34	3

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SCMT	120	576170	25/2058	387	49 1/2				1	350	68				

M.U.D.	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next O. Change
WEIGHT	8.4	8.4	8.4	8.4	No 1 PRES. SURE	350	✓	✓	✓	No 2 PRES. SURE					1 120	240
VISCOSITY	28	28	28	28	MODEL S.P.M.	28	✓	✓	✓	MODEL S.P.M.					2 11	
GEL					LINER SIZE	2 1/2	✓	✓	✓	LINER SIZE					3 11	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow	O. Flow	SURVEYS At Feet	Degrees	Weather	Water
						4	114		
ADDITIVES: SOAP - 3 GAL CALGON - 50 # HABATREAT - 50 #						GENERAL:			

From	Footage	To	Hrs. Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly
3670	39	3709	7 3/4	128	32	204	21	7	2 3/4	1 1/2	170	7.3	16.7	10.7	27

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SCMT	120	576170	20-58	426	57 1/2				1	350	68				

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next O. Change
WEIGHT					No 1 PRES. SURE	350	✓	✓	✓	No 2 PRES. SURE					1 138	240
VISCOSITY					MODEL S.P.M.	18	✓	✓	✓	MODEL S.P.M.					2 138	
GEL					LINER SIZE	2 1/2	✓	✓	✓	LINER SIZE					3 138	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow	O. Flow	SURVEYS At Feet	Degrees	Weather	Water
						4	120		
ADDITIVES: CALGON 25 # HABATREAT 25 #						GENERAL:			

From	Footage	To	Hrs. Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly
3709	40	3739	7 1/2	128	33	207	21	7	2 3/4	1 1/2	171	7.3	16.7	10.7	28

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SCMT	120	576170	20-58	456	67 1/2				1	350	68				

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next O. Change
WEIGHT					No 1 PRES. SURE	360	✓	✓	✓	No 2 PRES. SURE					1 136	240
VISCOSITY					MODEL S.P.M.	68	✓	✓	✓	MODEL S.P.M.					2 136	
GEL					LINER SIZE	2 1/2	✓	✓	✓	LINER SIZE					3 136	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow	O. Flow	SURVEYS At Feet	Degrees	Weather	Water
						4	128		
ADDITIVES:						GENERAL:			

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & Mat. Chk'd	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	TS	CSG	EQUIP
Hydril												
Pipe Rams												
Blind Rams												
TOTCO RING ON BIT	(H)											
Boiler Operated	24											
Fuel on Hand 11:59 a.m. (gals.)												
FUEL USED												
CEMENT RETURNS												

COM 1-1-E  
CONSERVATION BOARD COPY

LOCATION W. 111th St. & Lincoln St. W. Fargo, N.D. LSD N SEC 12 TWP 10 RGE 1 W 1 DATE 1957

MAILING POINT W. 111th St. W. Fargo, N.D. SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
361	21	7	2 3/4	1 7/8	19.4	3748	X 0	365	9.34
387	49 1/2	1			350	68			

4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next O.I. Change
		No 2					1 120	240
		MODEL					2 "	
		LINER SIZE					3 "	

U. Flow	O. Flow	SURVEYS
		At Feet
		Degrees
		1 114
		2 "
		3 "
		4 "
		5 "

REMARKS	TIME		
	START	STOP	INTVL
7:00	2:30	1/2	
7:30	3:00	1/2	
8:15	3:15	1/2	
8:00	4:30	1/2	

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
410	21	7	2 3/4	1 7/8	19.4	3748	X 0	365	9.34
426	57 1/2	1			350	68			

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next O.I. Change
		No 2					1 138	240
		MODEL					2 138	
		LINER SIZE					3 138	

U. Flow	O. Flow	SURVEYS
		At Feet
		Degrees
		4 120
		5 120

REMARKS	TIME		
	START	STOP	INTVL
8:00	9:15	1/2	
8:15	2:30	1/2	
8:30	4:00	1/2	

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
456	21	7	2 3/4	1 7/8	19.4	3748	X 0	365	9.34
456	64 1/2	1			350	68			

8 a.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next O.I. Change
		No 2					1 136	240
		MODEL					2 136	
		LINER SIZE					3 136	

U. Flow	O. Flow	SURVEYS
		At Feet
		Degrees
		4 128
		5 128

REMARKS	TIME		
	START	STOP	INTVL
4:00	11:00	1/2	
11:00	11:30	1/2	
11:30	12:00	1/2	

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	TS	CSG	EQUIPMENT CHANGES	DRILLER'S SIGNATURE	TRANSFER #
Fuel Rec'd Today (add)								
TOTAL								
Fuel on Hand 11:59 p.m. (deduct)								
FUEL USED								

GENERAL	DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
	33		

CEMENT RETURNS (YES/NO)	APPROVED BY OPERATOR'S REPRESENTATIVE	APPROVED BY TOOLPUSHER

APPROVED BY OPERATOR'S REPRESENTATIVE: *[Signature]*  
 APPROVED BY TOOLPUSHER: *[Signature]*

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

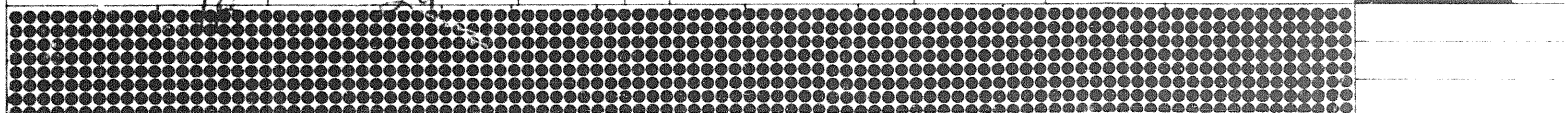
RIG NO. 22 LOCATION INC. ETAL PLANT HUMESD SEC. N 25 TWP. 14  
 MAILING POINT WILLIAMS SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ann. Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly		
3451	53	3509	7 1/2	125	2827	0	21	7	2 3/8	6 1/2	16.22	365	9.34	14			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SCMT	20-0	576170	30	58	221	27 1/2			1	350	68				
M.U.D. 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS																	
WEIGHT 71 No. 1 PRES. SURE 350 No. 2 PRES. SURE																	
VISCOSITY 2.8 MODEL S.P.W. 19 MODEL S.P.W.																	
GEL AIRCRAFT WATER DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees																	
W.L. F.C. pH. DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees																	
ADDITIVES: <u>4 GAL. CALGON - 50 #</u> GENERAL: <u>HAGATREAT - 50 #</u>																	
Drilling Line Record																	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ann. Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly		
3504	74	3578	7 3/4	126	2890	0	21	7	2 3/8	6 1/2	16.22	365	9.34	110			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SCMT	20-0	576170	30	58	295	34 1/2			1	350	68				
M.U.D. 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS																	
WEIGHT 84 No. 1 PRES. SURE 350 No. 2 PRES. SURE																	
VISCOSITY 8 MODEL S.P.W. 68 MODEL S.P.W.																	
GEL DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees																	
W.L. F.C. pH. DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees																	
ADDITIVES: <u>CALGON 25 #</u> GENERAL: <u>HAGATREAT 25 #</u>																	
Drilling Line Record																	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ann. Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly		
3578	49	3627	7 1/2	126	2952	0	21	7	2 3/8	6 1/2	16.22	365	9.34				
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
18	8 3/4	SCMT	20-0	576170	30	58	344	42 1/2			1	350	68				
M.U.D. 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS																	
WEIGHT WATER No. 1 PRES. SURE 350 No. 2 PRES. SURE																	
VISCOSITY WATER MODEL S.P.W. 65 MODEL S.P.W.																	
GEL DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees																	
W.L. F.C. pH. DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees																	
ADDITIVES: GENERAL:																	
Drilling Line Record																	

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a.m.c. Chk d	Fuel on Hand 12:01 a.m.	gals	CASING REPORT	RAN	TS	CSG	EQUIP
Hydril					Rig Savers Chk d	Fuel Rec'd Today (add)	gals	TOTAL	TO	KB USED	SAY	CEM
Pipe Rams					Kelly Cock Chk d	Fuel on Hand 11:59 p.m. (deduct)	gals	PLUG DOWN				A.M. P.M.
Blind Rams					Fire Equip. Chk d	FUEL USED	gals	CEMENT RETURNS (YES/NO)				DAYS
TOTCO RING ON BIT # <u>10</u> Boiler Operated: <u>24</u> Hrs.												



LOCATION INCO ETAL BLACKEY HUNSD. M 55 SEC. 5 TWP. 19 RGE. W DATE FEB 17 1967

MAILING POINT WALTERS SHIPPING POINT WALTERS MILES MOVED 0 ROAD CONDITIONS GOOD

1	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
221	27 1/4		21	7"	2 3/8	1692	365	9.34	14	
4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change	
✓	✓	No. 2					1	96	240	
✓	✓	MODEL					2	96		
		LINER SIZE					3	96		
		SURVEYS					4	90		
		At Feet					5	90		
		Degrees								
		Weather								
		Temp.								
		Bbls								
		Total Miles								
		Slip								
		Feet or Cut								
		At Miles								
		Date Slip or Cut								
		Next Slip								
		Ft. Left on Spool								

REMARKS	TIME		
	START	STOP	INTVL
DRILL	1:00	1:00	1
SURVEY	1:00	1:00	1/2
RIG SET UP SURVEY & P. HANIS	1:00	1:00	1/2
DRILL	1:30	2:00	1/2

FIRES None DRILLER'S SIGNATURE [Signature]

2	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
295	34 1/2		21	7"	2 3/8	1692	365	9.34	14	
12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change	
3:30	3:50	No. 2					1	104	240	
6:00	6:00	MODEL					2	104	"	
16	1:50	LINER SIZE					3	104	"	
		SURVEYS					4	98	"	
		At Feet					5	98	"	
		Degrees								
		Weather								
		Temp.								
		Bbls								
		Total Miles								
		Slip								
		Feet or Cut								
		At Miles								
		Date Slip or Cut								
		Next Slip								
		Ft. Left on Spool								

REMARKS	TIME		
	START	STOP	INTVL
DRILL	8:00	9:00	1
RIG SERVICE 130'S	9:00	9:15	1/4
SURVEY @ 3518	9:15	9:30	1/4
DRILL	1:30	4:00	6 1/2

FIRES None DRILLER'S SIGNATURE [Signature]

2	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
344	42 1/4		21	7"	2 3/8	1692	365	9.34	14	
8 a.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	12 p.m.	MOTOR HOURS		Next Oil Change	
3:50	4:00	No. 2					1	112	240	
6:00	6:00	MODEL					2	112	"	
16	1:50	LINER SIZE					3	112	"	
		SURVEYS					4	106	"	
		At Feet					5	106	"	
		Degrees								
		Weather								
		Temp.								
		Bbls								
		Total Miles								
		Slip								
		Feet or Cut								
		At Miles								
		Date Slip or Cut								
		Next Slip								
		Ft. Left on Spool								

REMARKS	TIME		
	START	STOP	INTVL
DRILL	4:00	4:30	1/2
RIG SERVICE 130'S	4:30	4:45	1/4
SURVEY @ 3518	4:45	5:00	1/4
DRILL	5:00	1:00	7

FIRES None DRILLER'S SIGNATURE [Signature]

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RAN	ITS	CSC	EQUIPMENT CHANGES	TRANSFER #
Fuel Rec'd Today (add)	gals.							
TOTAL	gals.	TO	KB. USED	SAX	CEM			
Fuel on Hand 11 59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD.	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	gals.	CEMENT RETURNS (YES/NO)	GENERAL			32	hrs	hrs

Approved by Operator's Representative [Signature]  
 Approved by Toolpusher [Signature]

COPY COM-33104



**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22

LOCATION INC ETAL BLACKFLY HADSY

LSO. 55 SEC.

TWP. \_\_\_\_\_

MAILING POINT WHITE HERSEY

SHIPPING POINT \_\_\_\_\_

MILES MOVED \_\_\_\_\_

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly
3383	51	3334	4 1/2	120	27	2		21	7"	2 1/2	1672	1672	336	1682	6
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T. B. G.
18	8 3/4	SCMT	1-20	576170	30	58	51	4 1/2			1	350	68		

M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	3 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1 PRES. SURE		350			No. 2 PRES. SURE					1		
VISCOSITY					MODEL S.P.M.		68			MODEL S.P.M.					2		
GEL	WATER				MODEL L.I.N.E.R. SIZE		5 1/2 x 16			MODEL L.I.N.E.R. SIZE					3		
W.L.	F.C.		pH.		DESILTER: Hours Op:					U. Flow:				O. Flow:			
ADDITIVES:	CARBON - 100*				GENERAL:	SOAP - 7.80				SURVEYS		At Feet	Degree	4	332	6	
ADDITIVES:	HAGATREAT - 100*												5				

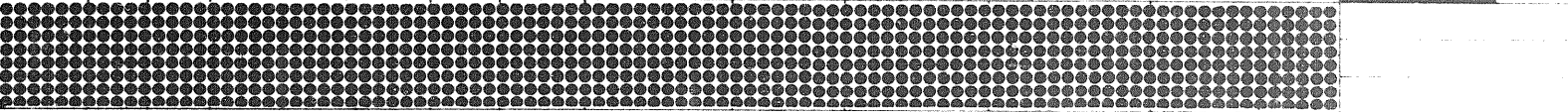
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly
3334	54	3388	7 3/4	121	27	4		21	7"	2 1/2	1672	1672	336	1682	6
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T. B. G.
18	8 3/4	SCMT	1-20	576170	20	58	105	13 1/2			1	350	68	1086	6

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	8.4	8.4	8.4	8.4	No. 1 PRES. SURE	550	550	550	350	No. 2 PRES. SURE					1	80
VISCOSITY	28	28	28	28	MODEL S.P.M.	64	64	64	64	MODEL S.P.M.	Mud Rolls				2	80
GEL	WATER FREATED				MODEL L.I.N.E.R. SIZE	5 1/2 x 16				MODEL L.I.N.E.R. SIZE	5 1/2 x 16				3	80
W.L.	F.C.		pH.		DESILTER: Hours Op:					U. Flow:				O. Flow:		
ADDITIVES:	CARBON 50*				GENERAL:					SURVEYS		At Feet	Degree	4	74	
ADDITIVES:	HAGATREAT 50*												5	74		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly
3388	63	3451	7 1/2	122	27	2		21	7"	2 1/2	1672	1672	336	1682	6
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T. B. G.
18	8 3/4	SCMT	1-20	576170	30	58	168	19 1/2			1	350	68		6

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE				350	No. 2 PRES. SURE					1	
VISCOSITY					MODEL S.P.M.				68	MODEL S.P.M.					2	
GEL					MODEL L.I.N.E.R. SIZE	5 1/2 x 16				MODEL L.I.N.E.R. SIZE	5 1/2 x 16				3	
W.L.	F.C.		pH.		DESILTER: Hours Op:					U. Flow:				O. Flow:		
ADDITIVES:					GENERAL:					SURVEYS		At Feet	Degree	4	390	
ADDITIVES:													5	3		

B. O. P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a matic Chk d	Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	TS	CSG	EQUIPME
Hydril					Rig Savers Chk d	Fuel Rec'd Today (add)						
Pipe Rams					Kelly Cock Chk d	TOTAL		10	KB USED	SAX	CEM	
Blind Rams					Fire Equip Chk d	Fuel on Hand 11 59 p.m. (deduct)		PLUS	PLUG DOWN	A M P M	DAYS FRO	
TOTCO RING ON BIT #	18	Boiler Operated	24	Hrs		FUEL USED		gals	CEMENT RETURNS	YES NO	GENERAL	



COM 1-1 E

CONSERVATION BOARD COPY

LOCATION INC ETAL BLACKFLY HUSKY LSD. 55 SEC. TWP. RGE. W. DATE FEB 13 1970 196.

MAILING POINT WHITE HERSEY POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
2		21	7"	2 3/4"	1672	16.78	3.65	9.34	20							
89																
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
51	4 1/2			1	350	68										
4 a.m.		6 a.m.		PUMP		12 m.		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS		Next Oil Change
No. 2		PRES SURE		1												
MODEL		S.P.M.		2												
LINER SIZE		C-150		3												
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		5		6		
P-7-81				3332		6										
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				

REMARKS			TIME		
SCIP LINE IS	START	STOP	INVT		
PL PLAC LIABAL IN DRILLER'S SIGNATURE	12:50	1:00	3 1/4		
PIR SIRT + BOP	1:00	1:15	4		
TRIP IN	1:15	3:15	2		
DRILL	3:15	7:30	4 1/4		
SURVEY	7:30	7:45	4		
DRILL	7:45	8:00	4		

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
4.73		21	7"	2 3/4"	1672	16.78	3.65	16.82	6.75							
105																
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
105	1 1/4			1	350	68										
12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS		Next Oil Change
No. 2		PRES SURE		1		80		240								
MODEL		S.P.M.		2		80										
LINER SIZE		C-150		3		80										
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		5		74		
69		69		Mud Runs		74										
6				SURVEYS		At Feet		Degrees		4		5		74		
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				

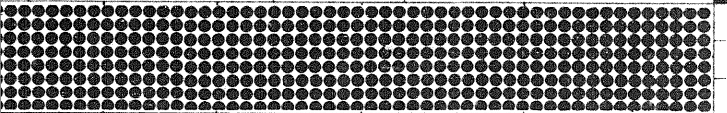
REMARKS			TIME		
DRILL	8:00	11:30	3 1/2		
Rig SERVICE / BOB'S	11:30	11:45	4		
DRILL	11:45	4:00	4 1/4		

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
2		21	7"	2 3/4"	1672	16.78	3.65	16.82	6							
55																
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
190	1 1/4			1	350	68										
8 p.m.		10 p.m.		PUMP		4 p.		6 p.m.		8 p.m.		10 p.m.		MOTOR HOURS		Next Oil Change
No. 2		PRES SURE		1												
MODEL		S.P.M.		2												
LINER SIZE		C-150		3												
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		5		3390		
168				5 1/2		5 1/2										
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				

REMARKS			TIME		
DRILL	4:00	4:45	3		
Rig SERVICE / BOB'S	4:45	5:00	4		
SURVEY @ 3390	5:00	5:15	4		
DRILL	5:15	12:00	6 3/4		

Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	EQUIPMENT CHANGES	DRILLER'S SIGNATURE	TRANSFER #
Fuel Rec'd Today (add)	gals.							
TOTAL	gals.	TO	KB USED	SAX	CEM			
Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD	31	
FUEL USED	gals.	CEMENT RETURNS (YES/NO)	GENERAL					

TOTAL COMPANY TIME	HRS	TOTAL CONTRACTOR'S TIME	HRS
Approved by Operator's Representative			
Approved by Toolpusher			



COPY

COM-33103

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22 LOCATION Live Ltd. Daily Husky LSD. SS SEC. TWP. MILES MOVED

MAILING POINT

SHIPPING POINT

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air-Wt.	Sub. Wt.	CB-Ft	Ft. up on Kelly		
3172	20	3202	4 3/4	110	25	88	21	7	2 3/8	6 1/2	6172	365	1636	17			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
17	8 3/4	VSSR	2 1/2	17249	25-30	58	RR 15	3 1/2	1 1/4	2	1	375	70				

M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	84	84	84	84	No. 1 PRES. SURE	375	375	400	400	No. 2 PRES. SURE					1	62	240
VISCOSITY	28	28	28	28	MODEL S.P.M.	70	70	70	70	MODEL S.P.M.					2	54	
GEL					LINER SIZE	500	5 1/2	X	12	LINER SIZE	150	5 1/2	X	12	3	50	
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		C. Flow:		SURVEYS		Air Feet		Degrees		4	50	
ADDITIVES: GENERAL: SOAP - 5 GAL.																	
CALGON - 50#																	
HAGATREAT - 50#																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES			

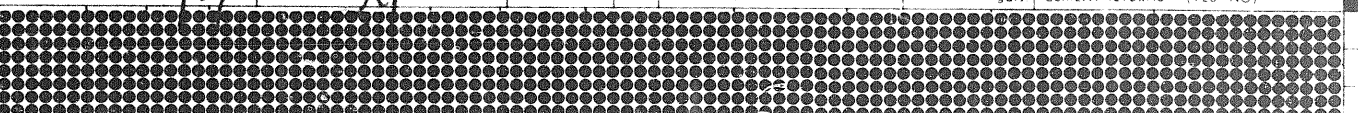
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air-Wt.	Sub. Wt.	CB-Ft	Ft. up on Kelly		
3202	47	3249	7 1/2	110	25	85	21	7	2 3/8	6 1/2	6192	1717	365	1636	28		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
17	8 3/4	VSSR	2 1/2	17249	30	58	RR 15	4 1/2	1 1/4	1	1	375	67				

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	84				No. 1 PRES. SURE	375				No. 2 PRES. SURE					1	62	240
VISCOSITY	28				MODEL S.P.M.	67				MODEL S.P.M.					2	62	
GEL					LINER SIZE	500	5 1/2	X	12	LINER SIZE	150	5 1/2	X	12	3	62	
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		Air Feet		Degrees		4	58	
ADDITIVES: GENERAL: SOAP - 5 GAL.																	
CALGON - 50#																	
HAGATREAT - 50#																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES			

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air-Wt.	Sub. Wt.	CB-Ft	Ft. up on Kelly		
3249	34	3283	4	110	25	114	21	7	2 3/8	6 1/2	6192	1717	3165	9 3/4	25 1/2		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
17	8 3/4	VSSR	2 1/2	17249	30	58	RR 15	10			1	400	68				

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	70	140
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2	70	
GEL					LINER SIZE					LINER SIZE					3	70	
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		Air Feet		Degrees		4	64	
ADDITIVES: GENERAL: SOAP - 5 GAL.																	
CALGON - 50#																	
HAGATREAT - 50#																	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES			

B O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crownomatic Chk d	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		EQUIPMENT	
Hydril					Ra Savers Chk d	Fuel Rec'd Today (add)	gals.	RAN	ITS	CSG	
Pipe Rams					Kelly Cork Chk d	TOTAL	gals.	10	RB USED	SAX	CEM
Blind Rams					Five Equip Chk d	Fuel on Hand 11 59 a.m. (deduct)	gals.	PLUS	PLUG DOWN	A M P M	DAYS FROM
TOTCO RING ON BIT #	17	Boiler Operated:	24	Hrs.		FUEL USED	gals.	CEMENT RETURNS (YES NO)	GENERAL		



CONSERVATION BOARD COPY

LOCATION Line 5TH Shackley Husky LSD. 55 SEC. TWP. RGE W DATE Feb 15

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB Ft	Ft up on Kelly		
28		21	7	2 3/8	6192	1717	365	1636	17		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
KR 15	3 1/2	1 1/2	2	1	375	70					
PUMP				MOTOR HOURS		Next Oil Change					
No. 2				1		440					
MODEL				2		54					
LINER SIZE				3		50					
SURVEYS				4		50					
U. Flow:				O. Flow:		SURVEYS					
AP - 5 GAL.				2185		4 1/2					
Weather				Water		Temp.					
Total Miles				Feet or Cut		At Miles		Date Slip or Cut		Next Slip	Ft Left on Spool

REMARKS	TIME		
	START	STOP	INTVL
Reaming to back 1200	12:00	12:15	1/4
Ream 'Live'	12:15	12:30	1/4
Ream rat hole 114 ft	12:30	12:45	1/4
Drilling	12:45	1:00	1/4
Survey	1:00	1:15	1/4
Drilling	1:15	1:30	1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB Ft	Ft up on Kelly		
2		21	7	2 3/8	6192	1717	365	1636	28		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
AR 15	4 1/2	1 1/2	2	1	375	67					
PUMP				MOTOR HOURS		Next Oil Change					
No. 2				1		62		240			
MODEL				2		62		✓			
LINER SIZE				3		62		✓			
SURVEYS				4		58		✓			
U. Flow:				O. Flow:		SURVEYS					
D - 5 GAL.				3245		5 3/4					
Weather				Water		Temp.					
Total Miles				Feet or Cut		At Miles		Date Slip or Cut		Next Slip	Ft Left on Spool

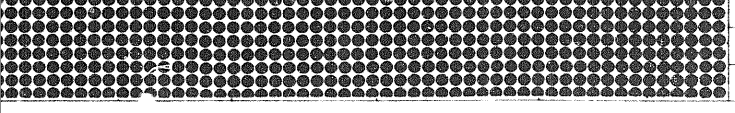
FIRES		DRILLER'S SIGNATURE	
DRILLING		8:00	8:45 3/4
WORK ON TRACTOR		8:45	9:15 1/2
DRILLING		9:15	9:45 1/4
SURVEY		9:45	10:00 1/4
DRILLING		10:00	10:15 1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB Ft	Ft up on Kelly		
11		21	7	2 3/8	6192	1717	3165	9 3/4	25 1/2		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
110	5 1/2	1 1/2	2	1	400	68		1	1	I	
PUMP				MOTOR HOURS		Next Oil Change					
No. 2				1		20		240			
MODEL				2		70		✓			
LINER SIZE				3		70		✓			
SURVEYS				4		64		✓			
U. Flow:				O. Flow:		SURVEYS					
3275				5 1/2		56					
Weather				Water		Temp.					
Total Miles				Feet or Cut		At Miles		Date Slip or Cut		Next Slip	Ft Left on Spool

FIRES		DRILLER'S SIGNATURE	
DRILL		4:00	6:00 1/2
BIG SERVICE LOGS		6:00	6:15 1/4
CHANGE LOGS		6:15	6:30 1/4
DRILL		6:30	7:30 1/2
DRILL & LOG WORK		7:30	8:00 1/4
DRILL & LOG WORK		8:00	11:00 1/2
DRILL & LOG WORK		11:00	12:00 1/2

Fuel on Hand 12:01 a.m.	gals	CASING REPORT	RAN	ITS	CSG
Fuel Rec'd Today (add)	gals	TO	KB USED	SAX	CEM
TOTAL	gals	PLUS	PLUG DOWN	A M P.M.	
Fuel on Hand 11:59 p.m. (deduct)	gals	CEMENT RETURNS (YES NO)	GENERAL		
FUEL USED	gals				

EQUIPMENT CHANGES		DRILLER'S SIGNATURE		TRANSFER #	
DAYS FROM SPUD		30		TOTAL COMPANY TIME	
HRS		HRS		TOTAL CONTRACTOR'S TIME	
HRS		HRS		HRS	



Approved by Operator's Representative *K. J. ...*  
 Approved by Toolpusher *...*

**COMMONWEALTH DRILLING LTD.**

**DAILY DRILLING LOG**

DIRECTIONS TO WELL

RIG NO. 22 LOCATION ONE ETL 2 1/2 mi. N. Hwy 25 TWP. 25 SEC. 25 R. 25

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR	From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		CB Ft		Ft. up on Kelly			
	2068		76		3144		7 1/2		110		2455.87		26		1		21		7		2 1/2		61920		1717		365		1136		9			
M I D N I G H T	No.		Size		Type		Jets/W.C.		Serial No.		Wgt.		R.P.M.		Drilled at Core		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T. B. G.			
	15		8 3/4		VSSR		OPEN		17249		2540		58		329		31 1/2						1		475		70		72		U N			
M U D	12 mn.		2 a.m.		4 a.m.		6 a.m.		PUMP		12 mn.		2 a.m.		4 a.m.		6 a.m.		PUMP		12 mn.		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS		Next O. Change			
	WEIGHT		8.4		8.4		8.4		8.4		No. 1 PRES. SURE		475		475		475		No. 2 PRES. SURE										28		240			
V I S C O S I T Y	28		28		28		28		MODEL		S.P.M.		70		70		70		MODEL		S.P.M.		150		5 1/2		12							
	GEL								LINER SIZE		5 1/2		X 16						LINER SIZE		5 1/2		X 12											
W. L.	F.C.		pH.		DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4																	
	ADDITIVES:				GENERAL:								3091		4 1/2		5																	
S O A P	26 GAL'S																																	
	Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool									
TOUR	From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		CB Ft		Ft. up on Kelly			
	3144		15		3159		3		110m		26		1		21		7		2 1/2		61920		1717		365		1136		9		DRILLING SURVEY @			
M I D N I G H T	No.		Size		Type		Jets/W.C.		Serial No.		Wgt.		R.P.M.		Drilled at Core		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T. B. G.			
	15		8 3/4		VSSR		OPEN		17249		25		58		344		34 1/2						1		475		70		72		I I I			
M U D	8 a.m.		10 a.m.		12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS		Next O. Change			
	WEIGHT		8.4		8.4		TRIP		No. 1 PRES. SURE		475		475		475		No. 2 PRES. SURE		TANKS										38		240			
V I S C O S I T Y	28		28						MODEL		S.P.M.		70		70		70		MODEL		S.P.M.		150		5 1/2		12							
	GEL								LINER SIZE		5 1/2		X 16						LINER SIZE		5 1/2		X 12											
W. L.	F.C.		pH.		DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4																	
	ADDITIVES:				GENERAL:								3153		5 1/4		24																	
S O A P																																		
	Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Mile		Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool									
TOUR	From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		CB Ft		Ft. up on Kelly			
	3159		12		3172		3 1/2		108m		26		1		21		7		2 1/2		61920		1717		365		1136		9		CIRC. DR CUT CORE			
M I D N I G H T	No.		Size		Type		Jets/W.C.		Serial No.		Wgt.		R.P.M.		Drilled at Core		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T. B. G.			
	16		6 3/4		J		CMHS		EC12915		8.10		48		13		3 1/4						1		750		86		600		Jest			
M U D	4 p.m.		6 p.m.		8 p.m.		10 p.m.		PUMP		4 p.m.		6 p.m.		8 p.m.		10 p.m.		PUMP		4 p.m.		6 p.m.		8 p.m.		10 p.m.		MOTOR HOURS		Next O. Change			
	WEIGHT		8.4		8.4				No. 1 PRES. SURE		750		750		No. 2 PRES. SURE														38		240			
V I S C O S I T Y	28		28						MODEL		S.P.M.		36		36		36		MODEL		S.P.M.		150		5 1/2		12							
	GEL								LINER SIZE		5 1/2		X 16						LINER SIZE		5 1/2		X 12											
W. L.	F.C.		pH.		DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4																	
	ADDITIVES:				GENERAL:								10 HALLABRETT 500L		S.T.M.		2128692		133 CALYON 500L		BOUR		248550		SOAP 2 gal		DIFF		142					
S O A P																																		
	Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool									
B. O. P.	Tested		Elapsed Time		Pres. sure		Packing & Seal Inspected Date		Crown & mat. Chk d		Fuel on Hand 12 01 a.m.		gals		CASING REPORT		RAN		MIS		CSG		EQUIPME											
	Hydril								Rig Savers Chk d		Fuel Rec d Today (add)		gals		TOTAL		TO		KB USED		SAY		CEM											
P i p e R a m s									Kelly Cork Chk d		Fuel on Hand 11 59 p.m. (deduct)		gals		PLUS		FUEL USED		gals		CEMENT RETURNS		YES NO											
	Blind Rams								Fire Equip. Chk d																									
TOTCO RING ON BY #		Boiler Operated:		Hrs																														

2 LOCATION INC. ETL. R. 1/2 by H. 1/2 by JSD. 25 SEC. TWP. RGE. W. DATE Feb 11/70

MAILING POINT		SHIPPING POINT		MILES MOVED		ROAD CONDITIONS	

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5.87	21	7	2 3/4	1 7/8	6192	1717	365	1636	9	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
329	3 3/4			1	475	70		12	U	N

PUMP		MOTOR HOURS		Next Oil Change	
4 a.m.	6 a.m.	12 m.	2 a.m.	4 a.m.	6 a.m.
475	475			475	475
70	70			70	70

U. Flow:		O. Flow:		SURVEYS	
				At Feet	Degrees
				3091	4 1/2

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5.87	21	7	2 3/4	1 7/8	6192	1717	365	1636	9	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
344	3 3/4			1	475	70		I	I	I

PUMP		MOTOR HOURS		Next Oil Change	
12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.
475	475			475	475
70	70			70	70

U. Flow:		O. Flow:		SURVEYS	
				At Feet	Degrees
				3153	5 3/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5.87	21	7	2 3/4	1 7/8	6192	1717	365	1636	9	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
16	3 1/4			1	750	86		600		

PUMP		MOTOR HOURS		Next Oil Change	
8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.
475	475			475	475
70	70			70	70

REMARKS	TIME		
	START	STOP	INTVL
Drilling	8:00	9:00	1/4
Survey @ 3153 RIG	9:00	9:15	1/4
Drilling	9:15	11:15	2 1/4
PULL OUT & TALLY	11:15	1:00	1 3/4
LAY DOWN SHOCK SUB & STABILIZERS	1:00	1:30	1/2
SLIP 20' DRILLLINE	1:30	1:45	1/4
PICK UP RBL & SERI	1:45	2:45	1
RUN IN	2:45	4:00	1 1/4

FIRES		DRILLER'S SIGNATURE
		<i>[Signature]</i>

FIRES		DRILLER'S SIGNATURE
		<i>[Signature]</i>

FIRES		DRILLER'S SIGNATURE
		<i>[Signature]</i>

FUEL USED		CEMENT RETURNS (YES/NO)		GENERAL	

EQUIPMENT CHANGES		TRANSFER #	

DAYS FROM SPUD		TOTAL COMPANY TIME		TOTAL CONTRACTOR'S TIME	
29					

D COPY

Approved by Operator's Representative: *[Signature]*

Approved by Toolpusher: *[Signature]*

COM. 33101

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION Line 5AL Blackley Hacksy LSD. 55 SEC. 55 TWP. 55 RGE. 55  
MAILING POINT SHIPPING POINT MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
2828	70	2898	7 1/2	105	2206	92	21	7	2 7/8	6 1/2	17 1/2	365	1636	6				
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
15	8 3/4	X 55R	100%	17249	30	48	83	96			1	400	58					
M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	8.4	8.4	8.4	8.4	No. 1	PRES-SURE	400	400	400	400	No. 2	PRES-SURE			4	240		
VISCOSITY	28	28	28	28	MODEL	S.P.M.	58	58	58	58	MODEL	S.P.M.						
GEL					LINER SIZE		5 1/2 X 14				LINER SIZE		5 1/2 X 12					
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		Weather		Water	
ADDITIVES: CALGON - 100 GENERAL: P.G. SOAP 500																		
HAGATREAT - 100 2843 4 1/2																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES				

Drilling  
Log service  
Survey  
Drilling  
Changed oil

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
2898	100	2998	7 1/2	108	2362	74	21	7	2 7/8	6 1/2	17 1/2	365	1636	31				
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
15	8 3/4	X 55R	100%	17249	40	58	183	17			1	400	58					
M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	8.4	8.4	8.4	8.4	No. 1	PRES-SURE	400	475	475	475	No. 2	PRES-SURE	TANKS		12	240		
VISCOSITY	28	28	28	28	MODEL	S.P.M.	52	70	70	70	MODEL	S.P.M.			12	240		
GEL					LINER SIZE		5 3/4 X 16				LINER SIZE		5 3/4 X 12					
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		Weather		Water	
ADDITIVES: CALGON 100 GENERAL: P.G. SOAP 10 GAL																		
HAGATREAT 50 2904 4 1/2																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES				

DRILLING  
SURVEY @ 2  
DRILLING  
SURVEY @ 2

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
2998	70	3068	7 1/4	108	2393	63	21	7	2 7/8	6 1/2	17 1/2	365	1636	23				
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
15	8 3/4	X 55R	100%	17249	28	50	253	24			1	475	70					
M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	8.4	8.4	8.4	8.4	No. 1	PRES-SURE	475	475	475	475	No. 2	PRES-SURE	TANKS		20	240		
VISCOSITY	28	28	28	28	MODEL	S.P.M.	70	70	70	70	MODEL	S.P.M.			20	240		
GEL					LINER SIZE		5 3/4 X 16				LINER SIZE		5 1/2 X 12					
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		Weather		Water	
ADDITIVES: CHANG OIL IN AIR CLEANERS ON ALL S.M.L.S																		
CHANG OIL IN LIGHT PLANT 3029 4 1/2																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES				

RIG SER  
DRILLING  
SURVEY @ 3  
DRILLING  
Survey

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk'd	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	TO	KB USED	SAX	CEM	EQUIPMENT C
Hydril					Rig Savers Chk'd	Fuel Rec'd Today (add)							
Pipe Rams.					Kelly Cock Chk'd	TOTAL							
Blind Rams.					Fire Equip. Chk'd	Fuel on Hand 11.59 p.m. (deduct)							
TOTCO RING ON BIT #15	Boiler Operated:	4	Hrs.			FUEL USED							
CEMENT RETURNS - (YES NO)										GENERAL			

CONSERVATION BOARD COPY

LOCATION Ine GAL Shallow Husky LSD. 55 SEC. TWP. RGE. W. DATE Feb 10/70  
 MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles 2 6.92	DRILL COLLARS	No. 21	O.D. 7	I.D. 2 7/8	Length 619.2	Air Wt. 37.75	Sub. Wt. 365	C.B. Ft. 1636	Ft. up on Kelly 6	
Drilled 83	Hrs. 9 1/2	Roomed	Hrs.	Pump No. 1	Pump Pressure 400	S.P.M. 58	Table Torque	T.	S.	G.
4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change		
400	400	No. 2	PRES-SURE				1	4	240	
58	58	MODEL	S.P.M.				2			
		LINER	SIZE	5 1/2 x 12			3			
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
26 SOAP 56AL				2943 4 1/2						
Total Miles		Slip	Foot or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL.
	1:00	1:45	13/4
Drilling	1:45	2:00	1/4
Rig service to check SOPs	2:00	2:15	1/4
Survey	2:15	8:00	5 3/4
Drilling			
Changed oil in all 5 MC motors			
FIRES			
John Robinson DRILLER'S SIGNATURE			

Singles 2 7.74	DRILL COLLARS	No. 21	O.D. 7	I.D. 2 7/8	Length 619.2	Air Wt. 37.75	Sub. Wt. 365	C.B. Ft. 1636	Ft. up on Kelly 31	
Drilled 183	Hrs. 17	Roomed	Hrs.	Pump No. 1	Pump Pressure 400	S.P.M. 58	Table Torque	T.	S.	G.
2 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change		
475	475	No. 2	PRES-SURE	TANKS			1	12	240	
70	70	MODEL	S.P.M.				2	12	240	
		LINER	SIZE	5 1/2 x 12			3	12	240	
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
SOAP #10 GAL				2904 4 1/2						
Total Miles		Slip	Foot or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL.
	8:00	9:15	1 1/4
DRILLING	9:15	9:30	1/4
SURVEY @ 2904	9:30	3:45	6 1/4
DRILLING	3:45	4:00	1/4
SURVEY @ 2997			
FIRES			
H. H. H. H. H. DRILLER'S SIGNATURE			

Singles 2 6.3	DRILL COLLARS	No. 21	O.D. 7	I.D. 2 7/8	Length 619.2	Air Wt. 37.75	Sub. Wt. 365	C.B. Ft. 1636	Ft. up on Kelly 23	
Drilled 255	Hrs. 24	Roomed	Hrs.	Pump No. 1	Pump Pressure 475	S.P.M. 70	Table Torque	T.	S.	G.
8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
475	475	No. 2	PRES-SURE	TANKS			1	20	240	
70	70	MODEL	S.P.M.				2	20	240	
		LINER	SIZE	5 1/2 x 12			3	20	240	
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
3 ON ALL S.M.S				3029 4 3/8						
Total Miles		Slip	Foot or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL.
	4:40	4:15	1/4
RIG SER ✓ BOP	4:15	7:00	2 3/4
DRILLING	7:00	7:15	1/4
SURVEY @ 3029	7:15	11:00	4
DRILLING	11:00	11:30	1/4
Survey	11:30	12:00	1/2
Drilling			
FIRES			
NORMAN JOHN DRILLER'S SIGNATURE			

Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	EQUIPMENT CHANGES	TRANSFER #
Fuel Rec'd Today (add)	gals.		TO	KB. USED	SAX		CEM
TOTAL	gals.	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME
Fuel on Hand 11.59 a.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)	GENERAL				HRS.
FUEL USED	gals.						HRS.

APPROVED BY OPERATOR'S REPRESENTATIVE: *[Signature]*  
 APPROVED BY TOOLPUSHER: *[Signature]*  
 COM. 35050



**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22 LOCATION INC AL Blackfly Husky LSD, SS SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ MILES MOVED \_\_\_\_\_

MAILING POINT

SHIPPING POINT

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft	Ft. up on Kelly
2675	60	2755	7 1/2	104	22	2084	06	22	7	2 7/8	64.09		365	4.06	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cor'd	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
14	5 7/8	AXSR	1/2"	17327	30	56	506	46%			1	400	70				

M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT	WATER				No. 1 PRES-SURE	400	400	400	400	No. 2 PRES-SURE						
VISCOSITY	WATER				MODEL S.P.M.	70	70	70	70	MODEL S.P.M.						
GEL	AIR 800 ACM				LINER SIZE	5 1/2	X 1 1/2			LINER SIZE	5 1/2	X 1 1/2				

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft	Ft. up on Kelly
2755	60	2815	6 1/2	104	23	2145	95	22	7	2 7/8	64.09		365	4.06	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cor'd	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
14	8 7/8	AXSR	1/2"	17327	20-30	56	566	66%			1	400	70				

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	84	8.4	8.4	7 1/2	No. 1 PRES-SURE	400	400	400	70	No. 2 PRES-SURE	TANKS					
VISCOSITY	23	20	20	10	MODEL S.P.M.	70	70	70	70	MODEL S.P.M.	TANKS					
GEL	WATER				LINER SIZE	5 1/2	X 1 1/2			LINER SIZE	5 1/2	X 1 1/2				

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft	Ft. up on Kelly
2815	13	2828	2	104	2145	95		21	7	2 7/8	61.92		365	4.06	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cor'd	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
15	8 7/8	AXSR	1/2"	17249	30	56	13	2			1	450	70				

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	WATER				No. 1 PRES-SURE					No. 2 PRES-SURE						
VISCOSITY	WATER				MODEL S.P.M.					MODEL S.P.M.						
GEL	WATER				LINER SIZE	5 1/2	X 1 1/2			LINER SIZE	5 1/2	X 1 1/2				

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk'd.	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	EQUIPMENT
Hydril					Rig Savers Chk'd.	Fuel Rec'd Today (add)		RAN	JTS CSG
Pipe Rams					Kelly Cock Chk'd.	TOTAL		TO	KB. USED SAX CEM
Blind Rams					Fire Equip. Chk'd.	Fuel on Hand 11.59 p.m. (deduct)		PLUS	PLUG DOWN A.M. P.M.
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED		CEMENT RETURNS (YES/NO)	GENERAL

CONSERVATION BOARD COPY

2 LOCATION INC Blackthorn Husky L&D SS SEC.      TWP.      RGE.      W.      DATE Feb 9 / 70  
 MAILING POINT      SHIPPING POINT      MILES MOVED      ROAD CONDITIONS     

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
400	22	7	2 7/8	64	609	365	406			
4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS			Next Oil Change
400	400	No. 2	PRES-SURE							
70	70	MODEL	S.P.M.							
		150	LINER SIZE	5 1/2	X 1 1/2					

REMARKS	TIME		
	START	STOP	INTVL.
Drilling	12 <sup>00</sup>	1 <sup>00</sup>	1
Rig Service + check P.O.P.s	1 <sup>00</sup>	1 <sup>15</sup>	1/4
Drilling	1 <sup>15</sup>	4 <sup>00</sup>	2 3/4
Kursey	4 <sup>00</sup>	4 <sup>15</sup>	1/4
Drilling	4 <sup>15</sup>	8 <sup>00</sup>	3 3/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	S.P.M.	Table Torque	T.	B.	G.	Ft. up on Kelly
595	22	7	2 7/8	64	609	365	406	70	333	I			25
12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS			Next Oil Change			
340	70	No. 2	PRES-SURE	TANKS									
16	70	MODEL	S.P.M.										
		110	LINER SIZE	5 1/2	X 1 1/2								

REMARKS	TIME		
	START	STOP	INTVL.
DRILLING	8 <sup>00</sup>	10 <sup>00</sup>	2
SURVEY @ 2778 RIG SER	10 <sup>00</sup>	10 <sup>15</sup>	1/4
DRILLING	10 <sup>15</sup>	13 <sup>00</sup>	3 1/4
SURVEY @ 2810	13 <sup>00</sup>	14 <sup>15</sup>	1 1/4
DRILLING	14 <sup>15</sup>	3 <sup>00</sup>	1 1/4
PULL OUT W/RT # 14	3 <sup>00</sup>	4 <sup>10</sup>	1

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	S.P.M.	Table Torque	T.	B.	G.	Ft. up on Kelly
595	21	7	2 7/8	61	921	365	1717	1636	28				28
8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS			Next Oil Change			
450	400	No. 2	PRES-SURE										
110	70	MODEL	S.P.M.										
		1250	LINER SIZE	5 1/2	X 1 1/2								

REMARKS	TIME		
	START	STOP	INTVL.
FINISH OUT	4 <sup>00</sup>	4 <sup>30</sup>	1/2
CHANGE KELLY PUSHING COVER	4 <sup>30</sup>	5 <sup>00</sup>	1/2
SLIP 20' CUT 140' LINE	5 <sup>00</sup>	5 <sup>45</sup>	3/4
PICK UP SHOCK SUP & STABILIZERS	5 <sup>45</sup>	6 <sup>15</sup>	1/2
RUN IN W/RT # 15	6 <sup>15</sup>	7 <sup>30</sup>	1 1/2
WORK TIGHT HOLE	7 <sup>30</sup>	9 <sup>00</sup>	1 1/2
Ream to RT 70'	9 <sup>00</sup>	10 <sup>00</sup>	1
Drilling	10 <sup>00</sup>	12 <sup>00</sup>	2

FUEL USED		CASING REPORT		EQUIPMENT CHANGES		DRILLER'S SIGNATURE	
Fuel on Hand 12.01 a.m.	gals.	RAN	JTS	CSG	TRANSFER #		
Fuel Rec'd Today (add)	gals.	TO	KB. USED	SAX	CEM		
TOTAL	gals.	PLUS	PLUG DOWN	A.M.	P.M.		
Fuel on Hand 11.59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)	GENERAL	DAYS FROM SPUD: 27		TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	gals.					HRS.	HRS.

COPY

Approved by Operator's Representative: *[Signature]*

Approved by Toolpusher: *[Signature]*

COM-55049

**COMMONWEALTH DRILLING LTD.**

**DAILY DRILLING LOG**

DIRECTIONS TO WELL

RIG NO. 22 LOCATION Inc me Facility Nashby SS SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly								
2469	50	2519	7	100	1824	30		22	7	2 7/8	4609		365	5712	10								
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
14	5 7/8	SSC	1000	17527	20	56	270	270			1	400	70		12	U	N						
M-U-D	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change							
WEIGHT		8.4	8.4	8.4	No. 1	PRE-SURE	400	400	400	No. 2	PRE-SURE				1								
VISCOSITY		28	28	28	MODEL	S.P.M.	70	70	70	MODEL	S.P.M.				2								
GEL					LINER SIZE		5 1/2	X	16	LINER SIZE		5 1/2	X	16	3								
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees											
ADDITIVES: CAL 400 - 50 GENERAL												PB. SOAP 5 GAL		2497		3°							
HAG ATREAT - 50																							
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES									

Finish in  
Drilling  
Survey  
Drilling

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly								
2519	76	2595	6	102	1845	98		22	7	2 7/8	6469		365	406	5712								
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
14	5 7/8	SSC	1000	17327	20	56	346	31			1	450	70		12	U	N						
M-U-D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change							
WEIGHT		8.4	8.4	8.4	No. 1	PRE-SURE	450	450	450	No. 2	PRE-SURE				1								
VISCOSITY		28	28	28	MODEL	S.P.M.	70	70	70	MODEL	S.P.M.				2								
GEL					LINER SIZE		5 1/2	X	16	LINER SIZE		5 1/2	X	16	3								
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees											
ADDITIVES: CAL 400 - 50 GENERAL												PB. SOAP 2 GAL		2559		3 1/2°							
HAG ATREAT 50																							
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES									

DRILLING  
RIG SER V  
DRILLING  
SURVEY @  
DRILLING

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly								
2595	80	2575	4	102	188	85		22	7	2 7/8	6469		365	406	5712								
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
14	5 7/8	SSC	1000	17327	20	56	346	31			1	450	70		12	U	N						
M-U-D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change							
WEIGHT		8.4	8.4	8.4	No. 1	PRE-SURE	450	450	450	No. 2	PRE-SURE				1								
VISCOSITY		28	28	28	MODEL	S.P.M.	70	70	70	MODEL	S.P.M.				2								
GEL					LINER SIZE		5 1/2	X	16	LINER SIZE		5 1/2	X	16	3								
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees											
ADDITIVES: CAL 400 - 50 GENERAL												PB. SOAP 5 GAL		2622		4°							
HAG ATREAT 50																							
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES									

RIG SER  
DRILLING  
SURVEY @  
DRILLING

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk'd.	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT				EQUIPMENT		
Hydril					Rig Savers Chk'd.	Fuel Rec'd Today (add)	gals.	RAN				JTS	CSG	
Pipe Rams.					Kelly Cock Chk'd.	TOTAL		TO				KB. USED	SAX	CEM
Blind Rams.					Fire Equip. Chk'd.	Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS				PLUG DOWN	A.M. P.M.	DAYS FROM
TOTCO RING ON BIT #	11	Boiler Operated:	34	Hrs.		FUEL USED	gals.	CEMENT RETURNS - (YES/NO)				GENERAL		

LOCATION Inc on Blackfly Nudby LSD. SS SEC. TWP. RGE. W. DATE Feb 8 / 70

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL
230		22	7	2 7/8	64609	365	406		10	Finish in	12:00	12:20	1/2
270						400	70			Rig service & check R.C.P's	12:20	12:45	1/4
										Drilling	12:45	4:15	3 1/2
										Survey	4:15	4:20	1/4
										Drilling	4:30	5:00	3/4

PUMP MOTOR HOURS Next Oil Change

U. Flow: O. Flow: SURVEYS At Feet Degrees

SOAP 5 GAL. 2497 3°

Weather Water Temp. Bbls.

Total Miles Slip Foot or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool

FIRES DRILLER'S SIGNATURE *John Johnson*

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	START	STOP	INTVL
598		22	7"	2 7/8	64609	365	406		DOWN	DRILLING	8:00	9:15	1 1/4
346						450	70			RIG SER ✓ Bops	9:15	9:30	1/4
										DRILLING	9:30	11:45	2 1/4
										SURVEY @ 2559	11:45	12:00	1/4
										DRILLING	12:00	4:00	4

U. Flow: O. Flow: SURVEYS At Feet Degrees

SOAP 2 GAL. 2559 3 1/2°

Weather Water Temp. Bbls.

Total Miles Slip Foot or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool

FIRES DRILLER'S SIGNATURE *H. Heid*

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	START	STOP	INTVL
85		22	7'	2 7/8	64609	365	406		9	RIG SER ✓ Bops	11:00	11:15	1/4
						450	70			DRILLING	11:15	6:00	1 1/4
										SURVEY @ 2622	6:00	6:30	1/2
										DRILLING	6:30	9:15	2 1/2
										Drilling	9:15	12:20	3 1/2

U. Flow: O. Flow: SURVEYS At Feet Degrees

SOAP 5 GALS 2622 4°

Weather Water Temp. Bbls.

Total Miles Slip Foot or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool

FIRES DRILLER'S SIGNATURE

Fuel on Hand 12.01 a.m.	gals.	CLOSING REPORT			EQUIPMENT CHANGES			TRANSFER #				
Fuel Rec'd Today (add)	gals.	RAN	JTS	CSG								
TOTAL	gals.	TO	KB. USED	SAX	CEM							
Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS	%	PLUG DOWN	A.M. P.M.	DAYS FROM SPUD: 26			TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME	HRS.	
FUEL USED	gals.	CEMENT RETURNS - (YES / NO)	GENERAL									

Approved by Operator's Representative *[Signature]*  
 Approved by Toolpusher *[Signature]*

COPY COM-35048

# COMMONWEALTH DRILLING LTD.

## DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22 LOCATION INC 6112 Kelly Lucky LSD 55 SEC TWP MILES MOVED

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				
8249	60	2309	5 1/4	90	17	2		21	7	2 7/8	6112	9.55	7.50	12.50					
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Target	T. B. G.				
14	B 2 1/4	SSC	1/8 3/4	17327	39/40	56	60	5 1/4			1	450	70		RUN				
M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1	PRE-SURE		450	450	No. 2	PRE-SURE								
VISCOSITY	WATER				MODEL	S.P.M.	70	70	MODEL	S.P.M.									
GEL					LINE SIZE		5 1/2 x 1 1/2		LINE SIZE		5 1/2 x 1 1/2								
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:										GENERAL:						At Feet		Degrees	
CALGON - X33 - 50 #																2303		3	
HAGSTREAT - X10 - 50 #										P.G. SOAP 5 GALS.						Weather		Water	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr Left on Spool	FIRES					
2309	93	8402	7 1/2	90	17	2		21	7	2 7/8	61921	9.55	7.51	12.50					
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Target	T. B. G.				
14	B 2 1/4	SSC	1/8 3/4	17327	40	56	153	12 1/2			1	450	70		RUN				
M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	8.4	8.4	8.4	8.4	No. 1	PRE-SURE	450	450	450	450	No. 2	PRE-SURE							
VISCOSITY	28	28	28	28	MODEL	S.P.M.	70	70	70	70	MODEL	S.P.M.							
GEL					LINE SIZE		5 1/2 x 1 1/2		LINE SIZE		5 1/2 x 1 1/2								
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:										GENERAL:						At Feet		Degrees	
X33 100 #																2335		2 1/2	
X10 40 #																2366		2 1/2	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr Left on Spool	FIRES					
2402	67	2462	4 3/4	90	17	2		22	7	2 7/8	10609	9.55	3.5	30					
No.	Size	Type	Jobs/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Target	T. B. G.				
14	B 2 1/4	SSC	1/8 3/4	17327	40	56	220	9 1/4			1	450	70		RUN				
M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	8.4	8.4			No. 1	PRE-SURE	450	450	450		No. 2	PRE-SURE							
VISCOSITY	28	28			MODEL	S.P.M.	70	70			MODEL	S.P.M.							
GEL					LINE SIZE		5 1/2 x 1 1/2		LINE SIZE		5 1/2 x 1 1/2								
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:										GENERAL:						At Feet		Degrees	
CALGON X33 50 #																2460		4	
HAGSTREAT																Weather		Water	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr Left on Spool	FIRES					

CONSERVATION BOARD COPY

LOCATION INC 26 1/2 Parkly Husky LSD. SS SEC. TWP. RGE. W. DATE Sep 11

MAILING POINT SHIPPING MILES MOVED ROAD CONDITIONS

SINGLES										REMARKS										TIME			
Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	START	STOP	INTVL	
483											21	7	2 7/8	6 1/2	619	9.55	7.58	12.50		Run in	8:00	8:13	1/4
60	5			1	450	70														Wagon service check & fuel tanks	12:15	12:20	1/4
																				check out & ream collars	1:20	1:20	1
																				Run in	1:30	1:45	1/4
																				Drilling	2:30	7:00	4 1/4
																				Survey	4:45	7:00	1/4
																				Drilling	7:00	8:00	1

SINGLES										REMARKS										TIME			
Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	START	STOP	INTVL	
050											21	7	2 7/8	6 1/2	619	9.55	7.51	12.50		DRILLING	8:00	10:15	2 1/4
153	12 1/2			1	450	70														SURVEY @ 2355 RIG SER	10:15	10:30	1/4
																				DRILLING	10:30	12:45	2 1/4
																				SURVEY @ 2366	12:45	1:00	1/4
																				DRILLING	1:00	4:00	3

SINGLES										REMARKS										TIME			
Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	START	STOP	INTVL	
88											22	7			609		3.5		30	DRILLING	4:00	6:00	2
220	1 1/4			1	450	70														RIG SER ✓ Pope	6:00	6:15	1/4
																				DRILLING	6:15	8:15	2
																				Survey	8:15	8:20	1/4
																				Drilling	8:30	9:15	3/4
																				Host ✓	9:15	10:45	1 1/2
																				Lay down check sub	10:45	11:00	1/4
																				Slip 20' line	11:15	11:30	1/4
																				Run in	11:30	12:00	1/2

FUEL USED				CASING REPORT				EQUIPMENT CHANGES				DRILLER'S SIGNATURE		TRANSFER #	
Fuel on Hand 12.01 a.m.	Fuel Rec'd Today (add)	TOTAL	Fuel on Hand 11.59 p.m. (deduct)	gals.	TO	PLUS	gals.	RAN	JTS	CSG	DAYS FROM SPUD:	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME	HRS.	HRS.
											25				

APPROVED BY OPERATOR'S REPRESENTATIVE: [Signature]  
 APPROVED BY TOOLPISHER: \_\_\_\_\_  
 COPY COM-35347

**COMMONWEALTH DRILLING LTD**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION JAC Blackfly Bushy LSD. SEC. 52 TWP. \_\_\_\_\_ MILES MOVED \_\_\_\_\_

TOUR	MIDNIGHT TO 8 A.M.	From		Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
		2070	2110																	
		40	2110	40	2110	4 1/2	82	1523	45	19	7	2 7/8	55	750	10	8	406	24		
		No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
		13	3 1/4	Y55	70/10	5695	29	59	305	37			1	400	70					
		M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	7 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change		
		WEIGHT					No. 1	PRES-SURE	400	400	400	400	No. 2	PRES-SURE						
		VISCOSITY	WATER				MODEL	S.P.M.	70	70	70	70	MODEL	S.P.M.						
		GEL					LINER SIZE	5 1/2	16			LINER SIZE	5 1/2	12						
		W.L.	F.C.	pH.	DESILTER: Hours Op.		U. Flow:		O. Flow:				SURVEYS	At Feet	Degrees					
		ADDITIVES:	GENERAL:																	
		Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
		From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
		2110	86	2196	1 1/2	84 m	16	1494	19	7	2 7/8	55	750	10	8	406	24			
		No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
		13	3 1/4	Y55	70/10	5695	29	59	305	37			1	400	70					
		M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change		
		WEIGHT	8.4	8.4	8.4	8.4	No. 1	PRES-SURE	400	400	400	400	No. 2	PRES-SURE						
		VISCOSITY	28	28	28	28	MODEL	S.P.M.	70	70	70	70	MODEL	S.P.M.						
		GEL					LINER SIZE	5 1/2	16			LINER SIZE	5 1/2	12						
		W.L.	F.C.	pH.	DESILTER: Hours Op.		U. Flow:		O. Flow:				SURVEYS	At Feet	Degrees					
		ADDITIVES:	GENERAL:																	
		Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
		From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
		2196	53	2249	6 1/2	84	16	1494	19	7	2 7/8	55	750	10	8	406	24			
		No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
		13	3 1/4	Y55	70/10	5695	29	59	305	37			1	400	70					
		M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
		WEIGHT	8.4	8.4			No. 1	PRES-SURE	400	400	400	400	No. 2	PRES-SURE						
		VISCOSITY	28	28			MODEL	S.P.M.	70	70	70	70	MODEL	S.P.M.						
		GEL					LINER SIZE	5 1/2	16			LINER SIZE	5 1/2	12						
		W.L.	F.C.	pH.	DESILTER: Hours Op.		U. Flow:		O. Flow:				SURVEYS	At Feet	Degrees					
		ADDITIVES:	GENERAL:																	
		Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					

Log Service  
 Wash in  
 Break circ  
 Drilling  
 Work on  
 Drilling  
 Work on  
 (900 CFM)  
 Survey  
 FUBASKAN  
 Drilling  
 DRILLING  
 RIG SER  
 DRILLING  
 SURVEY  
 FIRES  
 RIG SER  
 DRILLING  
 SURVEY  
 DRILLING  
 FIRES

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk d	Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	JTS	CSG	EQUIPM
Mudbit					Rig Savers Chk d	Fuel Rec d Today (add)	gals					
Pipe Rams					Kelly Cock Chk d	TOTAL	gals	TO	KB USED	SAX	CEM	
Blind Rams					Fire Equip Chk d	Fuel on Hand 11 59 a.m. (deduct)	gals	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FRO
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED	gals	CEMENT RETURNS	YES	NO	GENERAL	

CONSERVATION BOARD COPY

LOCATION INC AL Blackfly Husky LSD. SEC. 55 TWP.     RGE.     W.     DATE July 6 1970

MAILING POINT     SHIPPING POINT     MILES MOVED     ROAD CONDITIONS    

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL

3.45		19	7	2 7/8	55	750	800	406	24	Rig service select P.C.P.s Flush in Break circ	12:00	12:15	1/4
3.05							400	70			12:15	1:00	3/4
											1:00	1:20	1/2
											1:30	2:45	1 1/4

PUMP		MOTOR HOURS		Next Oil Change	REMARKS
No. 2	PRES-SURE	12 m.	2 a.m.		

4.40	400				Drilling
4.70	70				Work on Air Drilling Service booster
					Drilling
					Work on <del>booster</del> steam pipe valve
					(800 CFM) Drilling
					Survey

6.15	4.00				Work on booster John Robinson
4.15	6.00				DRILLER'S SIGNATURE
6.00	6.15				
6.15	7.00				
7.00	8.00				

4.94		19	7	2 7/8	55	750	800	406	24	Drilling	8:00	9:15	1 1/4
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3.91	370						450	70		DRILLING	9:15	9:30	1/4
										RIG SER V BOP KELLY COCK	9:30	3:45	6 1/4
										DRILLING	3:45	4:10	1/4

PUMP		MOTOR HOURS		Next Oil Change	REMARKS
No. 2	PRES-SURE	8 a.m.	10 a.m.		

3.45	400				Drilling
3.70	70				SURVEY @ MISSRUN

4.83		19	7	2 7/8	55	750	800	406	24	RIG SER V BOP	4:10	4:15	1/4
------	--	----	---	-------	----	-----	-----	-----	----	---------------	------	------	-----

4.44	430						450	70		DRILLING	4:15	6:45	2 1/2
										SURVEY 2325	6:45	7:10	1/4
										DRILLING	7:00	11:00	4
										Hoist	11:00	12:00	1

PUMP		MOTOR HOURS		Next Oil Change	REMARKS
No. 2	PRES-SURE	4 p.m.	6 p.m.		

4.40	400				Drilling
4.70	70				

4.83		19	7	2 7/8	55	750	800	406	24	RIG SER V BOP	4:10	4:15	1/4
------	--	----	---	-------	----	-----	-----	-----	----	---------------	------	------	-----

4.44	430						450	70		DRILLING	4:15	6:45	2 1/2
										SURVEY 2325	6:45	7:10	1/4
										DRILLING	7:00	11:00	4
										Hoist	11:00	12:00	1

FUEL ON HAND 12.01 a.m.		gals		CASING REPORT		RAN		JTS		CSG		EQUIPMENT CHANGES		TRANSFER #	
FUEL REC'D TODAY (ADD)		gals		TOTAL		TO		KB USED		SAX		CEM			
FUEL ON HAND 11.59 p.m. (DEDUCT)		gals		PLUS		PLUG DOWN		A.M. P.M.		DAYS FROM SPUD: 24		TOTAL COMPANY TIME		TOTAL CONTRACTOR S TIME	
FUEL USED		gals		CEMENT RETURNS - (YES NO)		GENERAL						Approved by Operator's Representative		Approved by Toolpusher	

COPY COM-35045



**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION I.N.C. 5TH SHACKLEY HUSBY SD. SEC. 35 TWP. 4  
 MAILING POINT SHIPPING POINT MILES MOVED

TOUR	MIDNIGHT TO 8 AM	TOUR	MIDNIGHT TO 4 PM	TOUR	MIDNIGHT TO 4 PM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				
						1879	91'	1970	7 1/2	82M	14	1367	100	19	7"	3"	57.5	100	3150						
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cores	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.								
1	13	8 3/4	1550	3/8	1/2	5695	30	56	165	12	1	400	64	DRHG											
M.U.D.		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS				Next Oil Change			
WEIGHT	2989	29	2.4	No. 1	PRES. SURE	400	300	300	400	No. 2	PRES. SURE	TANKS				1	80	240							
VISCOSITY	28	22	28	28	MODEL S.P.M.	44	64	64	64	MODEL S.P.M.					2	80									
GEL					LINER SIZE	5 1/2 X 16						LINER SIZE					3	80							
W.L.		F.C.		pH. 8		DESILTER: Hours Op:				U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		80	4		
ADDITIVES: WATER & AIR												GENERAL:										Weather		Water	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES											
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly										
1970	53	2023	7 1/2	92	15	1429	157	19	7"	2 7/8"	55	50	8.00		32										
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cores	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.								
1	13	8 3/4	1550	3/8	1/2	5695	25	56	194	194	1	400	70	KUN											
M.U.D.		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS				Next Oil Change			
WEIGHT	2494	24	2.4	2.4	No. 1	PRES. SURE	400	400	400	400	No. 2	PRES. SURE					1								
VISCOSITY	28	24	24	28	MODEL S.P.M.	70	70	70	70	MODEL S.P.M.					2										
GEL					LINER SIZE	5 1/2 X 16						LINER SIZE	150				3	80							
W.L.		F.C.		pH.		DESILTER: Hours Op:				U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		1973	2		
ADDITIVES: Water & air												GENERAL:										Weather		Water	
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES										
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly										
2023	47	2070	5 3/4	82m	16	1491	92	19	7"	2 7/8"	55	250	8.00		32										
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cores	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.								
1	13	8 3/4	1550	3/8	1/2	5695	20	56	165	25	1	400	70	23E											
M.U.D.		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS				Next Oil Change			
WEIGHT	848	4	24		No. 1	PRES. SURE	400	400	400	No. 2	PRES. SURE					1	96	240							
VISCOSITY	28	28	28		MODEL S.P.M.	70	70	70		MODEL S.P.M.					2	96	240								
GEL					LINER SIZE	5 1/2 X 16						LINER SIZE	150				3	96	240						
W.L.		F.C.		pH.		DESILTER: Hours Op:				U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		96	240		
ADDITIVES: WATER & AIR												GENERAL: 750 CFM										Weather		Water	
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES										
B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk d.	Rig Savers Chk d.	Kelly Cock Chk d.	Fire Equip Chk d.	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG											
Hydri									Fuel Rec'd Today (add)	gals.	TOTAL	TO	KB USED	SAX	CEM										
Pipe Rams									Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M. P.M.	DAYS											
Blind Rams											CEMENT RETURNS (YES/NO)	GENERAL													

LOCATION I.N.C. ETAL BLACKFLY HUSKY SD. H SEC. 33 TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ W. \_\_\_\_\_ DATE FEB. 5 1970

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

DRILL LOG											REMARKS			TIME				
Singles	DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				START	STOP	INTVL.		
7.00	19		7	7 3/8		557.50		800		3.50	BIG SERVICE V BOP.			12:00	12:15	1/4		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	DRILL W/ WATER + AIR			12:15	12:30	1/4		
165	12			1	400	64					SURVEY @ 110			12:30	12:45	1/4		
4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS			Next Oil Change	DRILL			12:45	1:00	1/4	
300	400	No. 2	PRES. SURE	TANKS				1	80	290				1:00	1:15	1/4		
60	64	MODEL	S.P.M.					2	80					1:15	1:30	1/4		
16		LINER SIZE						3	80					1:30	1:45	1/4		
U. Flow:				O. Flow:				SURVEYS										
								At Feet	Degrees									
								110	1'									
								Weather		Water								
								Temp.										
Total Miles	Slip	Foot or Cut	At Miles		Date Slip or Cut	Next Slip	Fr. Left on Spool											

FIRES \_\_\_\_\_ DRILLER'S SIGNATURE *Ken Brown*

DRILL LOG											REMARKS			TIME				
Singles	DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				START	STOP	INTVL.		
9.57	19		7	7 3/8		557.50		8.00			BIG SERVICE TO LOCK P.C.P.			8:00	8:15	1/4		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	SURVEY			8:15	8:30	1/4		
200	190			1	400	70					DRILLING			8:30	1:15	4 3/4		
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS			Next Oil Change	SURVEY			1:15	1:30	1/4	
400	400	No. 2	PRES. SURE	5 1/2 x 12				1			DRILLING			1:30	4:00	2 1/2		
70	70	MODEL	S.P.M.					2										
		LINER SIZE						3										
U. Flow:				O. Flow:				SURVEYS										
								At Feet	Degrees									
								1973	2'									
								2004	1 1/2'									
								Weather		Water								
								Temp.										
Total Miles	Slip	Foot or Cut	At Miles		Date Slip or Cut	Next Slip	Fr. Left on Spool											

FIRES \_\_\_\_\_ DRILLER'S SIGNATURE *John Robinson*

DRILL LOG											REMARKS			TIME				
Singles	DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly				START	STOP	INTVL.		
9.19	19		7	7 3/8		557.50		8.00		32	DRILLING			11:00	5:00	1		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	BIG SER V BOP.			5:00	5:15	1/4		
205	25			1	400	70					DRILLING			5:15	8:15	3		
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS			Next Oil Change	SURVEY @ 2067			8:15	8:30	1/4	
400		No. 2	PRES. SURE	3 1/2 x 12				1	96	240	DRILLING			8:30	9:15	3/4		
70		MODEL	S.P.M.					2	96	240	PULL OUT W/ BIT # 12			9:15	10:30	1 1/4		
		LINER SIZE						3	96	240	SLIP 20' DRILL LINE			10:30	10:45	1/4		
U. Flow:				O. Flow:				SURVEYS				PICK UP STAB. RUN IN			10:45	12:00	1 1/4	
								At Feet	Degrees									
								2067	2 1/4'									
								Weather		Water								
								Temp.										
Total Miles	Slip	Foot or Cut	At Miles		Date Slip or Cut	Next Slip	Fr. Left on Spool											

FIRES \_\_\_\_\_ DRILLER'S SIGNATURE *H. Wright*

FUEL REPORT				EQUIPMENT CHANGES				TRANSFER #	
Fuel on Hand 12.01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG			
Fuel Rec'd Today (add)	gals.								
TOTAL	gals.			KB. USED	SAX	CEM			
Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS		PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME	
FUEL USED	gals.	CEMENT RETURNS (YES-NO)		GENERAL			7 3/4	HRS.	
								TOTAL CONTRACTOR 5 TIME	HRS.
								Approved by Operator's Representative	
								Approved by Toolpusher	

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION I.N.C. MOUNTAIN BY FAH MOUNTAIN L.S.D. M SEC. 33 TWP. \_\_\_\_\_ RGE. \_\_\_\_\_  
 MAILING POINT SHIPPING POINT MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly						
																No.	Size	Type	Jets/W.C.	Serial No.	Wgt.
1690	65	1755	7 1/2	80M	12	1179	36	19	7"	2 3/8	557	50	800		50KLU						
M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change		
WEIGHT	8.5	8.5	8.6	8.7	No. 1	PRES. SURE	1300	1300	1300	1300	No. 2	PRES. SURE					1	56	240		
VISCOSITY	30	30	30	30	MODEL	S.P.M.	62	62	62	62	MODEL	S.P.M.	Mud Rule				2	56	340		
GEL					LINER SIZE		5 1/2 x 16				LINER SIZE		5 1/2 x 16				3	56	"		
W.L.	F.C. 1/2	pH. 10.5	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees								
ADDITIVES: WATER TO BUILD VOLUME & HOLD WT.																Weather		Water		Bbls	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES							

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly						
																No.	Size	Type	Jets/W.C.	Serial No.	Wgt.
1755	50	1805	7	80	12	1210	58	19	7"	2 3/8	557	50	800		12						
M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change		
WEIGHT	8.7	8.7	8.7	8.7	No. 1	PRES. SURE	1300	1300	1300	1300	No. 2	PRES. SURE					1	64	240		
VISCOSITY	28	28	28	28	MODEL	S.P.M.	62	62	62	62	MODEL	S.P.M.					2				
GEL					LINER SIZE		5 1/2 x 16				LINER SIZE		5 1/2 x 12				3				
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees								
ADDITIVES: GENERAL:																Weather		Water		Bbls	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES							

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly						
																No.	Size	Type	Jets/W.C.	Serial No.	Wgt.
1805	74	1871	4 1/2	80M	12	1275	11	19	7"	2 3/8			800		14						
M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change		
WEIGHT			8.5	8.4	No. 1	PRES. SURE			11	400	No. 2	PRES. SURE					1	72	240		
VISCOSITY			28	28	MODEL	S.P.M.			69	69	MODEL	S.P.M.					2	72			
GEL					LINER SIZE		5 1/2 x 16				LINER SIZE		5 1/2 x 12				3	72			
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees								
ADDITIVES: GENERAL: AERATED WATER																Weather		Water		Bbls	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES							

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk'd	Fuel on Hand 12.01 a.m.	gals	CASING REPORT	RAN	TS	CSG	EQUIPMENT
Hydril					Rig Savers Chk'd	Fuel Rec'd Today (add)	gals	TOTAL				
Pipe Rams					Kelly Cock Chk'd	Fuel on Hand 11.59 a.m. (deduct)	gals	PLUS				
Blind Rams					Fire Equip. Chk'd	FUEL USED	gals	CEMENT RETURNS (YES/NO)				DAYS FROM
TOTCO RING ON BIT #		Boiler Operated:		Hrs.							GENERAL	

CONSERVATION BOARD COPY

MAILING POINT		SHIPPING POINT		MILES MOVED		ROAD CONDITIONS	
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.
79	36	19	7"	2 3/8"	557.50	800	30180
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque
65	7 1/4			1	1300	64	DRAG
PUMP		MOTOR HOURS		Next Oil Change			
1300	1300	No. 2	PRES-SURE	1	56	240	
62	62	MODEL	S.P.M.	2	56	340	
X 16		LINER SIZE		3	56		
U. Flow:		O. Flow:		SURVEYS			
				At Feet	Degrees		
				1755	34		
				Weather		Water	
				Temp.		Bbls	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	

REMARKS	TIME		
	START	STOP	INTVL
Rig Service V.P.O.P.s	12:00	12:15	1/4
DRILL 8 3/4 HOLE	12:15	7:30	7/4
SURVEY @ 1755	7:30	7:45	1/4
DRILL	7:45	8:00	1/4

MAILING POINT		SHIPPING POINT		MILES MOVED		ROAD CONDITIONS	
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.
0	58	19	7"	2 3/8"	557.50	800	12
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque
115	14 1/2			1	1300	64	7 3/4
PUMP		MOTOR HOURS		Next Oil Change			
1300	1300	No. 2	PRES-SURE	1	64	240	
62	62	MODEL	S.P.M.	2			
16		LINER SIZE		3			
U. Flow:		O. Flow:		SURVEYS			
				At Feet	Degrees		
				Weather		Water	
				Temp.		Bbls	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	

REMARKS	TIME		
	START	STOP	INTVL
Drilling	8:00	11:30	3 1/2
Rig Service + check BOPs	11:30	11:45	1/4
Install stopper rubber for Grant	11:45	12:15	1/2
Rotative head			
Drilling	12:15	3:45	3 1/2
Hoist	3:45	4:00	1/4

MAILING POINT		SHIPPING POINT		MILES MOVED		ROAD CONDITIONS	
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.
73	19	7"	2 3/8"	557.50	800	14	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque
74	4 1/2			1	300	64	DRAG
PUMP		MOTOR HOURS		Next Oil Change			
400	400	No. 2	PRES-SURE	1	72	290	
69	69	MODEL	S.P.M.	2	72		
16		LINER SIZE		3	72		
U. Flow:		O. Flow:		SURVEYS			
				At Feet	Degrees		
				1815	3		
				Weather		Water	
				Temp.		Bbls	
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	

REMARKS	TIME		
	START	STOP	INTVL
Finish out	4:00	4:45	3/4
Rig service + check BOPs	4:45	5:00	1/2
Drilling	5:00	5:30	1/2
Unloading hole w/ no FSI	5:30	7:15	1 3/4
Drilling w/ water (could not log)	7:15	8:15	1
SURVEY @ 1815	8:15	8:30	1/4
DRILL	8:30	12:00	3 1/2

FUEL		CASING REPORT		EQUIPMENT CHANGES		TRANSFER #	
Fuel on Hand 12.01 a.m.	gals.	RAN	JTS	CSG			
Fuel Rec'd Today (add)	gals.	TO	KB USED	SAX	CEM		
TOTAL	gals.	PLUS	PLUG DOWN	A.M. P.M.			
Fuel on Hand 11.59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)	GENERAL				
FUEL USED	gals.						

DAYS FROM SPUD:		TOTAL COMPANY TIME		TOTAL CONTRACTOR S	
22	HRS	HRS	HRS	HRS	HRS
APPROVED BY OPERATOR'S REPRESENTATIVE		APPROVED BY TOOLPUSHER			

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION I N L.B.D. 4 SEC. 33 TWP. 1  
 MAILING POINT SHIPPING POINT MILES MOVED

TOUR MIDNIGHT TO 8 AM TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	1690				10	143	2		117									
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	M.U.D.	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
	WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE							
	VISCOSITY					MODEL S.P.M.					MODEL S.P.M.							
	GEL					LINER SIZE					LINER SIZE							
	W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:	SURVEYS		At Feet		Degrees						
	ADDITIVES: GENERAL:																	
Weather: Water																		
Temp. Bbls.																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES				
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
12	8 3/4	0AU	3-18	16650				19	7 1/2	2 7/8	557.50			435	365			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE								
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.								
GEL					LINER SIZE					LINER SIZE								
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:	SURVEYS		At Feet		Degrees							
ADDITIVES: GENERAL:																		
Weather: Water																		
Temp. Bbls.																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES				
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
1690				11	113	09		14			557.50			300	3			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE								
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.								
GEL					LINER SIZE					LINER SIZE								
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:	SURVEYS		At Feet		Degrees							
ADDITIVES: GENERAL:																		
Weather: Water																		
Temp. Bbls.																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES				
B.O.P.	Tested	Eapsed Time	Pressure	Packing & Seal inspected Date	Crown-a-matic Chk d.	Fuel on Hand 12.01 a.m.	gals	CASING REPORT					RAN	JTS	CSG	EQUIP		
Hydril					Rig Savers Chk d.	Fuel Rec'd Today (add)	gals											
Pipe Rams					Kelly Cock Chk d.	TOTAL	gals						TO	KA USED	SAX	CEM		
Blind Rams					Fire Equip. Chk d.	Fuel on Hand 11.59 p.m. (deduct)	gals	PLUS					PLUG DOWN	A.M.	P.M.	DAYS P		
TOTCO RING ON BIT #	Boiler Operated:	24	Hrs.	FUEL USED			gals.	CEMENT RETURNS (YES NO)					GENERAL					

CONSERVATION BOARD COPY

Bottom	(1000 lbs.)	COLLARS	Kelly	REMARKS	START	STOP	INTVL.
	1993.09	197' 32"	537' 50"	W.C. out of log & Head up.	12:15	1:30	1:15
					1:30	2:00	30
					2:00	2:15	15
					2:15	2:30	15
					2:30	2:45	15
					2:45	3:00	15
					3:00	3:15	15
					3:15	3:30	15
					3:30	3:45	15
					3:45	4:00	15

No. of Lines	Trips	Ton Miles	Total Miles	PUMP		PUMP		Drill Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
				No. 1	No. 2	No. 1	No. 2										
6 a.m.				12 m.	2 a.m.	4 a.m.	6 a.m.										

DESALTER Hours Op:		U. Flow:		O. Flow:		SULVERS		MOTOR HOURS		Next Oil Change	

DESALTER Hours Op:		U. Flow:		O. Flow:		SULVERS		MOTOR HOURS		Next Oil Change	

DESALTER Hours Op:		U. Flow:		O. Flow:		SULVERS		MOTOR HOURS		Next Oil Change	

DESALTER Hours Op:		U. Flow:		O. Flow:		SULVERS		MOTOR HOURS		Next Oil Change	

DESALTER Hours Op:		U. Flow:		O. Flow:		SULVERS		MOTOR HOURS		Next Oil Change	

DESALTER Hours Op:		U. Flow:		O. Flow:		SULVERS		MOTOR HOURS		Next Oil Change	

W.C. out of log & Head up.

HEADS UP & WELD SADDLE ON KEY LINE

DRILLER'S SIGNATURE: Kelly

DRILLER'S SIGNATURE: Kelly

DRILLER'S SIGNATURE: Kelly

DRILLER'S SIGNATURE: Kelly

DRILLER'S SIGNATURE: Kelly

DRILLER'S SIGNATURE: Kelly

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**COMMONWEALTH DRILLING LTD**

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22

LOCATION LINC Black Fly Husky

LSD. MA REC. 55 W.P.

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
1690					10	2		19	7"	2 1/2"	537'	10			3

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
1 Plug down @ 1:30 AM FEB 2/7/71 K. Locke																	

M U D	12 m.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 m.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE						
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.						
GEL					LINER SIZE					LINER SIZE						

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees

Drilling Lin Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
		1690													

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE						
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.						
GEL					LINER SIZE					LINER SIZE						

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees

Drilling Lin Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

C.F. Mer  
Dispho  
W.C.

del  
50 case

Cement  
Fondw

W.C.

W.C.

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk d.	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT	RAN	TS	CSG	EQUIP
Hydril					Rig Savers Chk d.	Fuel Rec'd Today (add)	gals.					
Pipe Rams					Kelly Cork Chk d.	TOTAL	gals.					
Blind Rams					Fire Equip. Chk d.	Fuel on Hand 11 59 p.m. (educt)	gals.					
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED	gals.	CEMENT RETURNS (YES NO)		GENERAL		

LOCATION INOC Black Fly Husky L&D M 55 REC. 55 TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ W. \_\_\_\_\_ DATE FEB 21 196  
 MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS FAIR

Singles		DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly					
69			19	7"	2 7/8	537.50		KCS 2 1/2		3					
Drilled or Cased	Hrs.	Examined	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	S.	G.					
4 a.m.		6 a.m.		P.U.M.P.		12 p.m.	2 a.m.		4 a.m.		8 a.m.		MOTOR HOURS		Next Oil Change
				No. 2		PRES. SURE									
				MODEL		S.P.M.									
				LINER SIZE											
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees							
				Weather		Temp.		Water		Bbbls.					
Total Miles		Slip		Foot or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL.
CEMENT CASING	12 <sup>00</sup>	12 <sup>45</sup>	3/4
Displace Cement	12 <sup>45</sup>	1 <sup>30</sup>	3/4
W.O.C.	1 <sup>30</sup>	9 <sup>00</sup>	1/2
Set casing slips with 50 cement			
Cemented w/ 790 SKS			
Founds cement. Shurry w/ 14.6 H			
FIRES			
W.O.C.		DRILLER'S SIGNATURE	
		6 <sup>00</sup>	4 <sup>00</sup> 8
FIRES			
W.O.C.		DRILLER'S SIGNATURE	
		4 <sup>00</sup>	12 <sup>00</sup> 8
FIRES			
W.O.C.		DRILLER'S SIGNATURE	

FUEL		CASING REPORT		EQUIPMENT CHANGES	
Fuel on Hand 12.01 a.m.	gals.	RAN	JTS	CSG	TRANSFER #
Fuel Rec'd Today (add)	gals.	TO	KB US'D	SAX	CEM
<b>TOTAL</b>	<b>gals.</b>	PLUS		PLUG DOWN	A.M. P.M.
Fuel on Hand 11.59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)		GENERAL	

DAYS FROM SPUD:		TOTAL COMPANY TIME		TOTAL CONTRACTOR S TIME	
20		HRS.		HRS.	
Approved by Operator's Representative		Signature: <i>[Handwritten]</i>			
Approved by Toolpusher		Signature: <i>[Handwritten]</i>			

COPY

COM-35042



**COMMONWEALTH DRILLING LTD**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION INTERNATIONAL MARINE LTD. SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ MILES MOVED \_\_\_\_\_

TOUR	From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Ft. up on Kelly			
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																
1	1632	42'			1674	7 1/2	90M	999	10	2	19	7"	2 1/2"	270	197.18	17.48																		
2	11	1 1/2	1558	3-14	TN706	30	48	114	193																									
M U D		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change														
WEIGHT		8.8	8.8	8.9	8.9	No. 1 PRES. SURE		170	950	950	950	No. 2 PRES. SURE		7	TANKS		1		20	240														
VISCOSITY		40	39	40	42	MODEL S.P.M.		60	60	60	60	MODEL S.P.M.					2		30	"														
GEL						LINER SIZE		7 X 16				LINER SIZE					3		20	"														
W.L.		18.6	F.C.		pH.		8.	DESILTER: Hours Op.		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		20		Weather		Water		Bbls.						
ADDITIVES:		GEL 4100		GENERAL:		Running 1" Stream To		Bait + Hold Volume																										
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES																			
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly																			
1674	16	1690	4 1/2	40	193	24	19	7"	2 1/2"	270	197.18	17.48																						
2	11	1 1/2	1558	3-18	TN706	30	50	130	24																									
M U D		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change														
WEIGHT		8.9	8.9	8.9	8.9	No. 1 PRES. SURE		900	900	100		No. 2 PRES. SURE		7	TANKS		1		28	240														
VISCOSITY		41	45	20		MODEL S.P.M.		60	60	60		MODEL S.P.M.					2																	
GEL						LINER SIZE		7 X 16				LINER SIZE		5 1/2 X 16			3																	
W.L.		F.C.		pH.		DESILTER: Hours Op.		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4		1670		1 3/4		Weather		Water		Bbls.						
ADDITIVES:		14560 GEL		GENERAL:																														
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES																			
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly																			
		1690																																
2																																		
M U D		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change														
WEIGHT						No. 1 PRES. SURE						No. 2 PRES. SURE			26		1		26	240														
VISCOSITY						MODEL S.P.M.						MODEL S.P.M.					2																	
GEL						LINER SIZE						LINER SIZE					3																	
W.L.		F.C.		pH.		DESILTER: Hours Op.		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4						Weather		Water		Bbls.						
ADDITIVES:				GENERAL:																														
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES																			

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk d.	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN H2	JTS 9 5/8	EQUIPM
Hydril					Rig Savers Chk d.	Fuel Rec'd Today (add)	gals.	TO 1690	KB USED 790	SAXTONDUCEM	
Pipe Rams					Kelly Cock Chk d.	TOTAL	gals.				
Blind Rams					Fire Equip Chk d.	Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS			
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED	gals.	CEMENT RETURNS (YES NO)		GENERAL	

CONSERVATION BOARD COPY

CHECKED BY HADY P.M.S.

LOCATION INTERNATIONAL NUCLEAR LSD. SEC. TWP. RGE. W. DATE FEB 1 1967

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Table with columns: Singles, DRILL COLLARS, No., O.D., I.D., Length, Air Wt., Sub. Wt., C.B. Ft., Ft. up on Kelly, Drilled or Cored, Hrs., Reamed, Hrs., Pump No., Pump Pressure, S.P.M., Table Torque, T, B, G, PUMP, MOTOR HOURS, Next Oil Change, U. Flow, O. Flow, SURVEYS, Weather, Temp., Total Miles, Slip, Foot or Cut, At Miles, Date Slip or Cut, Next Slip, Ft. Left on Spool.

Table with columns: REMARKS, TIME (START, STOP, INTVL), DRILLER'S SIGNATURE

Table with columns: Singles, DRILL COLLARS, No., O.D., I.D., Length, Air Wt., Sub. Wt., C.B. Ft., Ft. up on Kelly, Drilled or Cored, Hrs., Reamed, Hrs., Pump No., Pump Pressure, S.P.M., Table Torque, T, B, G, PUMP, MOTOR HOURS, Next Oil Change, U. Flow, O. Flow, SURVEYS, Weather, Temp., Total Miles, Slip, Foot or Cut, At Miles, Date Slip or Cut, Next Slip, Ft. Left on Spool.

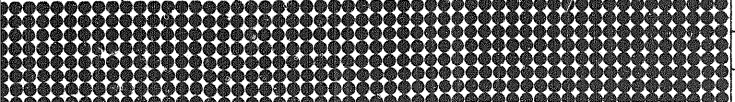
Table with columns: REMARKS, TIME (START, STOP, INTVL), DRILLER'S SIGNATURE

Table with columns: Singles, DRILL COLLARS, No., O.D., I.D., Length, Air Wt., Sub. Wt., C.B. Ft., Ft. up on Kelly, Drilled or Cored, Hrs., Reamed, Hrs., Pump No., Pump Pressure, S.P.M., Table Torque, T, B, G, PUMP, MOTOR HOURS, Next Oil Change, U. Flow, O. Flow, SURVEYS, Weather, Temp., Total Miles, Slip, Foot or Cut, At Miles, Date Slip or Cut, Next Slip, Ft. Left on Spool.

Table with columns: REMARKS, TIME (START, STOP, INTVL), DRILLER'S SIGNATURE

Table with columns: Fuel on Hand 12.01 a.m., Fuel Rec'd Today (add), TOTAL, Fuel on Hand 11.59 p.m. (deduct), FUEL USED, CASING REPORT, RAN H2 JTS 95/8SG, TO 1690 KB. USED 790 SAG FONDUCEM, PLUS, PLUG DOWN, A.M., P.M., CEMENT RETURNS - (YES NO), GENERAL

Table with columns: EQUIPMENT CHANGES, DAYS FROM SPUD, 19, TOTAL COMPANY TIME, HRS., TOTAL CONTRACTOR 5 TIME, HRS.



Approved by Operator's Representative, Approved by Toolpusher

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22

LOCATION INTER-TIONAL Nuclear L.S.D. SEC. TWP. MILES MOVED

ETA 13:00 HLY

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
1508	47	1555	6	87	258	94	3	9"	2 1/2"	28.70	57.50	10.60	57.50	4.33			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
10	12 1/4	15SR	3-18	RD674	35	54	90	10 1/4	297	2 1/4	1	1000	64				

M.U.D.	12 m.	2 a.m.	4 a.m.	6 a.m.	P.U.M.P.	12 m.	2 a.m.	4 a.m.	6 a.m.	P.U.M.P.	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT	8.8	8.8		8	No. 1 PRES-SURE 1000	1000	1000	400	950	No. 2 PRES-SURE					1	
VISCOSITY	43	44		47	MODEL S.P.M. 64	64	64	60	62	MODEL S.P.M.					2	
GEL					LINER SIZE 7 X 16	7 X 16	7 X 16	7 X 16	7 X 16	LINER SIZE					3	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees	Weather	Water	Bbls.
						4	1529	3/8	WINDY		
ADDITIVES: GEL # 1000			GENERAL: Running 3/4" stream to maintain volume								

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
1555	40	1595	5 1/4	87	299	46	3	9"	2 1/2"	28.70	57.50	10.60	57.50	4			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
10	12 1/4	15SR	3-18	RD674	35	55	95	10 1/4	297	2 1/4	1	1000	64				
11	12 1/4	15SR	3-18	TN706	35	55	35	9 1/4									

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	P.U.M.P.	8 a.m.	10 a.m.	12 noon	2 p.m.	P.U.M.P.	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	7.9	7.9	7.9	7.9	No. 1 PRES-SURE 1000	1000	1000	900	900	No. 2 PRES-SURE					1	240
VISCOSITY	41	40	40	44	MODEL S.P.M. 64	64	64	60	60	MODEL S.P.M.					2	240
GEL					LINER SIZE 7 X 16	7 X 16	7 X 16	7 X 16	7 X 16	LINER SIZE					3	240

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees	Weather	Water	Bbls.
						4	1599	1 1/2			
ADDITIVES: GEL # 2000			GENERAL: changed oil in all rig motors								
			Running 3/4" water for volume								

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
1595	37	1632	7 1/2	88M	96	19	2	9"	2 1/2"	28.70	57.50	10.60	57.50	30.38			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
11	12 1/4	15SR	3-18	TN706	30	54	72	12			1	950	64				

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P.U.M.P.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P.U.M.P.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	8.8	8.8	8.7	8.9	No. 1 PRES-SURE 100	100	100	100	100	No. 2 PRES-SURE					1	240
VISCOSITY	38	42	42	42	MODEL S.P.M. 60	60	60	60	62	MODEL S.P.M.					2	240
GEL					LINER SIZE 7 X 16	7 X 16	7 X 16	7 X 16	7 X 16	LINER SIZE					3	240

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees	Weather	Water	Bbls.
						4	1630	1			
ADDITIVES: GEL # 3500			GENERAL: Running 1" stream of water to gain volume								

R.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & Mat. Chk'd	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	EQUIP
Hydril					Rig Savers Chk'd	Fuel Rec'd Today (add)	gals.					
Pipe Rams					Kelly Cock Chk'd	TOTAL	gals.					
Blind Rams					Fire Equip Chk'd	Fuel on Hand 11:59 p.m. (deduct)	gals.					
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED	gals.					
								CEMENT RETURNS (YES NO)				GENERAL

ETA BLACKFLY HUSKY 155

LOCATION International Nuclear LSD. SEC. TWP. RGE. W. DATE Jan 31 1970

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
94	3	9	7 1/2	2 1/2	38.70	10.60	STAB. 7.18	433	
90	19	7	7 1/2	2 1/2	57.50	10.60	STAB. 7.18	433	
PUMP		No. 2	PRE-SURE	S.P.M.	MODEL	LINER SIZE	MOTOR HOURS	Next Oil Change	
4 a.m.	6 a.m.	950	62	150	5 1/2 x 12	1200	64	0864	
SURVEYS		At Feet	Degrees	Weather	Water	Temp.	Bbls.		
U. Flow:	O. Flow:	1539	1/2	WINDY		250			

REMARKS	START	STOP	INTVL
DRILL 12 1/4 HOLE	1:00	2:30	1 1/2
Rig SERVICE 4 P.O.'S	2:30	2:45	1/4
SURVEY @ 1539	2:45	3:00	1/4
INSTALL NEW Compound	3:00	4:00	1
CHAIN & WORK ON AIR LINES	4:30	1:30	1 1/2
DRILL	4:30	8:00	3 1/2

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
16	3	9	7 1/2	2 1/2	38.70	10.60	STAB. 7.18	4	
95	19	7	7 1/2	2 1/2	57.50	10.60	STAB. 7.18	4	
PUMP		No. 2	PRE-SURE	S.P.M.	MODEL	LINER SIZE	MOTOR HOURS	Next Oil Change	
2 noon	2 p.m.	1000	60	150	5 1/2 x 12	1000	64	240	
SURVEYS		At Feet	Degrees	Weather	Water	Temp.	Bbls.		
U. Flow:	O. Flow:	1539	1/2	WINDY		250			

REMARKS	START	STOP	INTVL
Drilling	7:00	7:15	1/4
Rig Service + check P.O.'S	7:15	7:30	1/4
Drilling	7:30	7:45	1/4
Lost (strap out)	7:45	10:15	1 1/2
Run in	10:15	11:15	1
Drilling	11:15	4:00	4 3/4
correction made			
STEAD - 600 ES			
TALLY - 1590.85			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
99	3	9	7 1/2	2 1/2	38.70	10.60	STAB. 7.18	30.38	
72	19	7	7 1/2	2 1/2	57.50	10.60	STAB. 7.18	30.38	
PUMP		No. 2	PRE-SURE	S.P.M.	MODEL	LINER SIZE	MOTOR HOURS	Next Oil Change	
8 p.m.	10 p.m.	700	60	150	5 1/2 x 12	1000	64	240	
SURVEYS		At Feet	Degrees	Weather	Water	Temp.	Bbls.		
U. Flow:	O. Flow:	1599	1 1/2	1		1630			

REMARKS	START	STOP	INTVL
Drilling	4:00	4:15	3/4
Rig Service + check P.O.'S	4:15	5:00	1/2
Survey	5:00	5:15	1/4
Drilling	5:15	11:00	5 3/4
SURVEY @ 1630	11:00	11:15	1/4
DRILL	11:15	12:00	3/4

FUEL	CASING REPORT	EQUIPMENT CHANGES	TRANSFER #
Fuel on Hand 12.01 a.m.	RAN JTS CSG		
Fuel Rec'd Today (add)	TO KR USED SAX CEM		
TOTAL	PLUS PLUG DOWN A.M. P.M.	DAYS FROM SPUD: 19	
Fuel on Hand 11.59 p.m. (deduct)	CEMENT RETURNS (YES/NO)	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	GENERAL	HRS	HRS

Approved by Operator's Representative: *[Signature]*  
 Approved by Toolpusher: *[Signature]*

COPY COM-35040

**COMMONWEALTH DRILLING LTD.**  
DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22

LOCATION INTERNATIONAL NUCLEAR

ETAH BLACK FLAY 1  
LSD. SEC. TWP. MILES MOVED

MAILING POINT

SHIPPING POINT

TOUR	M	I	D	N	I	G	H	T	S	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	Rig Service															
																											No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque
1465										1465	Reaming			84	678	64	19	7"	2 3/8"	440	20	127.8	7.8			Reaming															
										10	12 1/2 X 55R	3-18	RD674	10-15	80		162	10 1/2"	1	800	62					Reaming															
M U D														12 m.	2 a.m.	4 a.m.	6 a.m.	P U M P				12 m.	2 a.m.	4 a.m.	6 a.m.	M O T O R H O U R S				Next Oil Change											
W E I G H T														8.8	8.8	8.8	8.8	No. 1	PRES. SURE	725	725	725	800	No. 2	PRES. SURE	TANKS															
V I S C O S I T Y														58	46	54	48	MODEL	S.P.M.	56	54	54	62	MODEL	S.P.M.																
G E L														500	L I N E R S I Z E		7 X 1 6	150	L I N E R S I Z E		5 1/2 X 1 2																				
W.L.														14.6	F.C.		32	pH.			DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		Weather		Water				
A D D I T I V E S														GEL-3500														GENERAL: Running 1" Stream of Water To Maintain Volume													
D r i l l i n g L i n e R e c o r d														Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	F I R E S														
1465										1465	Reaming			84	766	69	19	7"	2 3/8"	88.70	20	127.8	7.8			Reaming															
										10	12 1/2 X 55R	3-18	RD674	10-12	80		262	18 1/2"	1	800	62					Reaming															
M U D														8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P				8 a.m.	10 a.m.	12 noon	2 p.m.	M O T O R H O U R S				Next Oil Change											
W E I G H T														9.9	8.8	8.8	8.9	No. 1	PRES. SURE	800	800	800	800	No. 2	PRES. SURE	TANKS															
V I S C O S I T Y														40	43	39	42	MODEL	S.P.M.	62	62	62	62	MODEL	S.P.M.																
G E L														500	L I N E R S I Z E		7 X 1 6	150	L I N E R S I Z E		5 1/2 X 1 2																				
W.L.															F.C.			pH.			DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		Weather		Water				
A D D I T I V E S														GEL-3500														GENERAL: 1" Stream Water													
D r i l l i n g L i n e R e c o r d														Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	F I R E S														
1465										1465	43	1508	4 1/2	87	829	31	19	7"	2 3/8"	55.75	20	127.8	7.8			Reaming															
										10	12 1/2 X 55R	3-18	RD674	30	54	43	277	21 1/4"	1	800	62					Reaming															
M U D														4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P				4 p.m.	6 p.m.	8 p.m.	10 p.m.	M O T O R H O U R S				Next Oil Change											
W E I G H T														9.9	8.9	8.8	8.9	No. 1	PRES. SURE	800	800	1050	1050	No. 2	PRES. SURE	TANKS															
V I S C O S I T Y														42	38	44	40	MODEL	S.P.M.	62	62	64	64	MODEL	S.P.M.																
G E L														500	L I N E R S I Z E		7 X 1 6	150	L I N E R S I Z E		5 1/2 X 1 2																				
W.L.															F.C.			pH.			DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		Weather		Water				
A D D I T I V E S														GEL-3000														GENERAL: Running 3/4" Stream To Maintain Volume													
D r i l l i n g L i n e R e c o r d														Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	F I R E S														
B. O. P.		Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown o-matic Chk'd	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG	EQUIP																											
Hydril						Rig Savers Chk'd	Fuel Rec'd Today (add)	gals.	TOTAL		TO	KB USED	SAX	CEM																											
Pipe Rams						Kelly Cock Chk'd	Fuel on Hand 11 59 p.m. (deduct)	gals.	PLUG DOWN		A.M.	P.M.	DAYS																												
Blind Rams						Fire Equip Chk'd	FUEL USED	gals.	CEMENT RETURNS (YES/NO)		GENERAL																														

ETAL BLACK FLY HUSKY MTS

LOCATION INTERNATIONAL Nuclear LSD. SEC. TWP. RGE. W. DATE Jan 30 1980

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL
1	3	19	7"	2 3/8"	646	20	137.8	210	6.01	Rig SERVICE J P O B	12:00	12:15	1/4
1	162	108	1	800	62					REAMING	12:15	8:00	7 3/4
<p>4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS Next Oil Change</p> <p>725 800 No. 2 PRES. SURE 7 HANKS</p> <p>570 62 MODEL S.P.M.</p> <p>16 150 LINER SIZE 5 1/2 x 12</p> <p>U. Flow: O. Flow: SURVEYS At Feet Degrees</p> <p>1" STREAM OF WATER</p> <p>Weather: Water</p> <p>Temp. Bbls.</p> <p>Total Miles Slip or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool</p>													

FIRES											DRILLER'S SIGNATURE		
K. R. Regan													
1	5	19	7"	2 3/8"	88.70	20	137.8	210	6.01	REAMING	8:00	9:15	1 1/4
1	262	180	1	800	62					Rig Service & check P O B	9:15	9:30	1 1/4
<p>12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change</p> <p>800 800 No. 2 PRES. SURE 7 HANKS</p> <p>62 62 MODEL S.P.M.</p> <p>150 LINER SIZE 5 1/2 x 12</p> <p>U. Flow: O. Flow: SURVEYS At Feet Degrees</p> <p>STREAM WATER</p> <p>Weather: Water</p> <p>Temp. Bbls.</p> <p>Total Miles Slip or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool</p>													

FIRES											DRILLER'S SIGNATURE		
John [Signature]													
1	19	7"	2 3/8"	55.70	20	137.8	210	6.01	21.70	reaming	4:00	5:15	1 1/4
1	43	214	1	800	62					Rig Service & check P O B	5:15	5:30	1/4
<p>4 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change</p> <p>1050 1050 No. 2 PRES. SURE 7 HANKS</p> <p>64 64 MODEL S.P.M.</p> <p>150 LINER SIZE 5 1/2 x 12</p> <p>U. Flow: O. Flow: SURVEYS At Feet Degrees</p> <p>36" STREAM TO</p> <p>Weather: Water</p> <p>Temp. Bbls.</p> <p>Total Miles Slip or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool</p>													

FUEL				CASING REPORT				EQUIPMENT CHANGES				DRILLER'S SIGNATURE			
Fuel on Hand 12 01 a.m. gals.				RAN JTS CSG											
Fuel Rec'd Today (add) gals.				TO KB USED SAX CEM											
TOTAL gals.				PLUS PLUG DOWN A.M. P.M.				DAYS FROM SPUD: 17				TOTAL COMPANY TIME HRS.			
Fuel on Hand 11 59 p.m. (deduct) gals.				CEMENT RETURNS - (YES/NO) GENERAL								TOTAL CONTRACTOR'S TIME HRS.			
FUEL USED gals.												Approved by Operator's Representative [Signature]			
												Approved by Toolpusher [Signature]			

COPY COM-35839

COMMONWEALTH DRILLING LTD.

DAILY DRILLING LOG

DIRECTIONS TO WELL

RIG NO. 22

MAILING POINT

LOCATION *International Nuclear*

SHIPPING POINT

*ETAH BLACK & HUSKY*

LSD. SEC. TWP. RGE.

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
1378	44	1422	7 1/2	74M	329	31		19	7"	2 3/8"	557.50		327		14.08		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
9	8 3/4	XSSK	3-18	17250	10-15	80	69	105			1	800	66				
M.U.D. 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. P.U.M.P. 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS																	
WEIGHT 8.7 8.7 8.6 8.6 No. 1 PRES. SURE 800 800 800 750 No. 2 PRES. SURE TANKS																	
VISCOSITY 38 41 45 42 MODEL S.P.M. 60 60 60 64 MODEL S.P.M. L.I.N.E.R. SIZE 7 X 1 1/2																	
GEL W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet Degrees 1404 1 3/8																	
ADDITIVES: <i>REL - 40000</i> GENERAL: Weather Water																	
Drilling Line Record Size Make Serial No. No. Lines Trips Ton Miles Total Miles Slip Feet or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool																	
1422	40	1462	7 1/2	75	558	44		19	7"	2 3/8"	557.50		327		3		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
9	8 3/4	XSSK	3-18	17250	20-15	55	109	18			1	500	48				
M.U.D. 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. P.U.M.P. 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS																	
WEIGHT 5.8 5.8 8.8 8.8 No. 1 PRES. SURE 425 400 450 480 No. 2 PRES. SURE																	
VISCOSITY 37 39 40 49 MODEL S.P.M. 44 46 46 47 MODEL S.P.M. L.I.N.E.R. SIZE 7 X 1 1/2																	
GEL W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet Degrees																	
ADDITIVES: <i>GEL # 5100</i> GENERAL: <i>RUNNING 1" STREAM OF WATER TO MAINTAIN VOLUME</i> Weather Water																	
Drilling Line Record Size Make Serial No. No. Lines Trips Ton Miles Total Miles Slip Feet or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool																	
1462	3	1465	8	82M	547	42		19	7"	2 3/8"	646.20		578.78				
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
9	8 3/4	XSSK	3-18	17250	15	65	112	184			1	450	46				
10	12 1/4	XSSK	3-18	RD674	6-10	70			61	3	1	650	56				
M.U.D. 4 p.m. 6 p.m. 10 p.m. 11 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. P.U.M.P. 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS																	
WEIGHT 4.3 4.3 4.5 4.5 No. 1 PRES. SURE 450 No. 2 PRES. SURE TANKS																	
VISCOSITY 38 41 40 48 MODEL S.P.M. 46 46 46 48 MODEL S.P.M. L.I.N.E.R. SIZE 7 X 1 1/2																	
GEL W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet Degrees 1400 2 1/2																	
ADDITIVES: <i>REL - 4500 # SANDUST - 20 lbs.</i> GENERAL: Weather Water																	
Drilling Line Record Size Make Serial No. No. Lines Trips Ton Miles Total Miles Slip Feet or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool																	

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk d.	Rig Savers Chk d.	Kelly Cock Chk d.	Fire Equip Chk d.	Fuel on Hand 12 01 a.m.	Fuel Rec'd Today (add)	TOTAL	Fuel on Hand 11 59 p.m. (deduct)	FUEL USED	CASING REPORT	EQUIPMENT CHARGE		
														RAN	JTS	CSG	
														TO	KB. USED	SAX	CEM
														PLUS	PLUG DOWN	A.M.	P.M.
														CEMENT RETURNS - YES NO			DAYS FROM SPUD.
GENERAL																	

CONSERVATION BOARD COPY

ETAH BLACK HAY MUSKY M 55

LOCATION INTERNATIONAL NUCLEAR LSD. SEC. TWP. RGE. W. DATE Jan 19 1960

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
31		19	7"	2 3/8"	557.50	827			14.08	
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
69	103			1	800	66				
				1	500	47				
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
800	750	No. 2	PRES-SURE	TANKS				1		
60	64	MODEL	S.P.M.					2		
			LINER SIZE					3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
						1404		1 3/8		
								Weather		Water
								Temp.		Bbls.
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS			TIME		
DRILL			START	STOP	INTVL
DRILLING			13:00	4:45	4 3/4
Rig SERVICE / 1201?			4:45	5:00	4
SURVEY @ 1404			5:00	5:15	4
DRILL			5:15	8:00	2 3/4
FIRES					
Ken Regan DRILLER'S SIGNATURE					

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
44		19	7"	2 3/8"	557.50	827			3	
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
109	18			1	500	48				
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
450	480	No. 2	PRES-SURE	MAD ROCKS				1		
46	46	MODEL	S.P.M.	5 1/2 x 12				2		
			LINER SIZE					3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
						1 1/2		27		
								Weather		Water
								Temp.		Bbls.
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS			TIME		
DRILLING			8:00	10:00	2
Rig Service + check 1500's			10:00	10:15	1/4
Survey			10:15	10:30	1/2
Drilling			10:30	4:00	5 1/2
FIRES					
John Schuman DRILLER'S SIGNATURE					

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
42		19	7"	2 3/8"	646.20	572.78	104			
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
112	18 1/2			1	450	46				
				61	3	1	650	56		
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
	700	No. 2	PRES-SURE	TANKS				1		
	58	MODEL	S.P.M.	5 1/2 x 12				2		
	150		LINER SIZE					3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
						1100		27		
								Weather		Water
								Temp.		Bbls.
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS			TIME		
DRILLING			4:00	4:30	1/2
Survey			4:30	4:45	1/4
Rig Service			4:45	5:00	1/4
First			5:00	6:30	1 1/2
Pick up 1136			6:30		
Run in			8:00	9:00	1
BEAMING FROM 1136 To 1247			9:00		
				14:00	3
FIRES					
DRILLER'S SIGNATURE					

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG	EQUIPMENT CHANGES		TRANSFER #
Fuel Rec'd Today (add)	gals.								
TOTAL	gals.	TO		KB. USED	SAX	CEM			
Fuel on Hand 11 59 a.m. (deduct)	gals.	PLUS		PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD: 16		TOTAL COMPANY TIME HRS
FUEL USED	gals.	CEMENT RETURNS - (YES NO)		GENERAL				TOTAL CONTRACTOR'S TIME HRS	

Approved by Operator's Representative		Approved by Toolpusher	
<i>[Signature]</i>		<i>[Signature]</i>	
COM-25038			

COPY



**COMMONWEALTH DRILLING LTD.**  
DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION INTERNATIONAL NUCLEAR ET AL BLACK SD. SEC. TWP. MILES MOVED

TOUR	MIDNIGHT TO	From		Footage		To		Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	DRILLING SURVEY DRILLING			
		No.	Size	Type	Jets/W.C.	Serial No.	Wgt.															R.P.M.	Drilled or Corod	Hrs.
8 AM	TOUR M IDNIGHT	1250	52	1302	7 3/4	75 m	704	64	2	197'	2 7/8	557.50	827								9			
		No.	8	8 3/4	XSSR	3-18	RE RUN	20-25	50	59	97 1/2			1	500	60								
		M U D		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP				12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS				Next Oil Change				
		WEIGHT		8.5	8.6	8.7	No. 1	PRES. SURE	800	800	800	800	No. 2	PRES. SURE										
		VISCOSITY		28	35	38	MODEL	S.P.M.	60	60	60	60	MODEL	S.P.M.										
		GEL					300	LINER SIZE	7"	X	16		150	LINER SIZE	5 1/2"	X	12							
		W.L.	F.C.	pH.	9	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		At Feet	Degrees			
		ADDITIVES: <u>CAUTIC 1000</u> GENERAL: <u>FUSI 3'6"</u>																Weather		Water		Temp.		Bbls.
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool		FIRES								
8 AM	TOUR M IDNIGHT	1302	36	1338	7 1/2	72 1/4	735	104	8	197'	2 7/8	557.50	827								3,81			
		No.	8	8 3/4	XSSR	3-18	RE RUN	20	54	95	17 1/2			1	800	60								
		M U D		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP				8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS				Next Oil Change				
		WEIGHT		8.7	8.5	8.7	No. 1	PRES. SURE	800	800	800	No. 2	PRES. SURE											
		VISCOSITY		158	136	41	39	MODEL	S.P.M.	69	69	69	69	MODEL	S.P.M.									
		GEL					500	LINER SIZE	7"	X	16		150	LINER SIZE	3 1/2"	X	12							
		W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		At Feet	Degrees			
		ADDITIVES: <u>PELTEX # 50</u> GENERAL:																Weather		Water		Temp.		Bbls.
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool		FIRES								
4 PM	TOUR M IDNIGHT	1338	40	1378	5 1/4	72	798	04	2	197'	2 7/8	557.50	827											
		No.	8	8 3/4	XSSR	3-18	RE RUN	25	55	110	11 1/2			1	950	66								
		M U D		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS				Next Oil Change				
		WEIGHT		8.6	8.5	8.6	No. 1	PRES. SURE	800	800	800	No. 2	PRES. SURE											
		VISCOSITY		54	32	33	35	MODEL	S.P.M.	66	66	66	MODEL	S.P.M.										
		GEL					500	LINER SIZE	7"	X	16		150	LINER SIZE	3 1/2"	X	12							
		W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS		At Feet	Degrees			
		ADDITIVES: <u>GEL - 3500</u> GENERAL:																Weather		Water		Temp.		Bbls.
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool		FIRES								
B.O.P.		Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk d	Fuel on Hand 12.01 a.m.	gals.		CASING REPORT		RAN		ITS		CSG								
Hydril						Rig Savers Chk d	Fuel Rec'd Today (add)	gals.		TOTAL		KB USED		SAX		CEM								
Pipe Rams						Kelly Cock Chk d	Fuel on Hand 11.59 p.m. (deduct)	gals.		PLUS		PLUG DOWN		A.M. P.M.		DAY								
Blind Rams						Fire Equip. Chk d	FUEL USED	gals.		CEMENT RETURNS - (YES/NO)		GENERAL												
TOTCO RING ON BIT #		Boiler Operated	Hrs.																					

LOCATION INTERNATIONAL NUCLEAR ET AL BLACKFLY HUSKIES MSS JAN 28 19670

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles 2	DRILL COLLARS	No. 19	O.D. 7"	I.D. 2 7/8"	Length 55	Air Wt. 7.50	Sub. Wt. 8.27	C.B. Ft. 9	Ft. up on Kelly	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
59	9 1/4			1	800	60				

REMARKS			TIME		
DRILLING	START	STOP	INTVL		
SURVEY @ 1150 RIG SER ✓	1200	1130	1/2		
DRILLING	1130	1145	1/4		
	1145	8:00	3/4		

4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
800	800	No. 2					1	
60	60	MODEL					2	
16		S.P.M.					3	
		LINER SIZE	5 1/2 x 12				4	

U. Flow:	O. Flow:	SURVEYS
		At Feet
		Degrees
		1280 2 1/2
		5
		Weather
		Water
		Temp.
		Bbls.

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
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FIRES \_\_\_\_\_ DRILLER'S SIGNATURE *B. Heid*

Singles 104	DRILL COLLARS	No. 19	O.D. 7"	I.D. 3 3/8"	Length 55	Air Wt. 7.50	Sub. Wt. 8.27	C.B. Ft. 3.81	Ft. up on Kelly	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
95	17 1/4			1	800	60				

DRILL	START	STOP	INTVL
RIG SERVICE & BOPE	8:00	9:30	1 1/2
SURVEY @ 1310	9:30	1:15	1/4
DRILL WITH BOPE	1:15	10:00	1/4
	10:00	4:00	1/2

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
800	800	No. 2					1	
69	69	MODEL					2	
6		S.P.M.					3	
		LINER SIZE	5 1/2 x 12				4	

U. Flow:	O. Flow:	SURVEYS
		At Feet
		Degrees
		1310 2 1/2
		5
		Weather
		Water
		Temp.
		Bbls.

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
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FIRES \_\_\_\_\_ DRILLER'S SIGNATURE *Ken ...*

Singles 304	DRILL COLLARS	No. 15	O.D. 7"	I.D. 2 7/8"	Length 55	Air Wt. 7.50	Sub. Wt. 8.27	C.B. Ft. 56	Ft. up on Kelly	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
110	11 1/2			1	950	66				
25	3			1	850	66				

DRILLING	START	STOP	INTVL
SURVEY	4:00	4:45	1/2
DRILLING	4:45	5:15	1/2
DRILLING	5:15	7:45	1 1/2
DRILLING	7:45	8:00	1/4
DRILLING	8:00	10:00	2/4
DRILLING	10:00	11:00	1/4
DRILLING	11:00	12:00	1/4

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
60		No. 2					1	
6		MODEL					2	
		S.P.M.					3	
		LINER SIZE	3 1/2 x 12				4	

U. Flow:	O. Flow:	SURVEYS
		At Feet
		Degrees
		1342 2
		5
		Weather
		Water
		Temp.
		Bbls.

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
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FIRES \_\_\_\_\_ DRILLER'S SIGNATURE *John ...*

Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	EQUIPMENT CHANGES	TRANSFER #
Fuel Rec'd Today (add)	gals.	TOTAL	TO	KB USED	SAX	CEM	
Fuel on Hand 11.59 p.m. (deduct)	gals.	FUEL USED	PLUS	PLUG DOWN	A.M. P.M.	DAYS FROM SPUD: 15	TOTAL COMPANY TIME HRS
	gals.	CEMENT RETURNS - (YES NO)	GENERAL				TOTAL CONTRACTOR'S TIME HRS
							Approved by Operator's Representative <i>[Signature]</i>
							Approved by Toolpusher <i>[Signature]</i>

COPY \_\_\_\_\_ COM. 75 25

**COMMONWEALTH DRILLING LTD.**  
 DAILY DRILLING LOG  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION INTERNATIONAL NUCLEAR SD. ET AL BLACK SEC.            TWP.           

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR MIDNIGHT TO 8 AM  
 TOUR 8 AM TO 4 PM  
 TOUR 4 PM TO MIDNIGHT

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
1216	18	1234	8	72m	578	84	21 7"	2 1/8"	6 1/4	85	827				7			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
7	8 3/4	DDV	3-18	18456	10	120	49	18 1/2			1	250	42					RUNNING

M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT	85	85	85	85	No. 1 PRES. SURE	250	250	250	250	No. 2 PRES. SURE					1	
VISCOSITY	28	28	28	28	MODEL S.P.M.	42	42	42	42	MODEL S.P.M.	200	200	200	200	2	
GEL					LINER SIZE	7"	X	16		LINER SIZE	5 1/2"	X	12	3		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS	
ADDITIVES: CAUSTIC 300# FUEL 4'																
GENERAL: ROTATING HEAD SIZED UP AT 8.30 A.M.																
Weather: Water: Temp. Bbls:																

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
1234	9	1243	4 1/4	578	184		21 7"	2 1/8"	6 1/4	85	827				2.96			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
7	8 3/4	DDV	3-18	18456	10	120	58	23			1	300	42					RUNNING

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	80	89	87		No. 1 PRES. SURE	300	300	300		No. 2 PRES. SURE					1	
VISCOSITY	28	28	28		MODEL S.P.M.	42	42	42		MODEL S.P.M.	200	200	200	200	2	
GEL					LINER SIZE	7"	X	16		LINER SIZE					3	
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS	
ADDITIVES: GENERAL: ROTATING HEAD SIZED UP AT 8.30 A.M.																
Weather: Water: Temp. Bbls:																

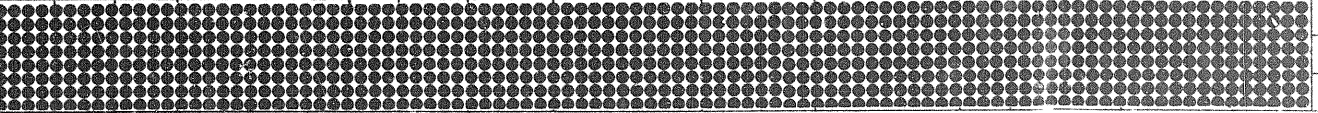
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
1243	7	1250	2	75m	641	82	19 7"	2 1/8"	5 5/8	50	827				30			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corod	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
8	8 7/8	XSR	3-18	REWIN	20	58	7	2			1	800	56					RUNNING

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT				87	No. 1 PRES. SURE				508	No. 2 PRES. SURE					1	
VISCOSITY				45	MODEL S.P.M.				56	MODEL S.P.M.					2	
GEL					LINER SIZE				56	LINER SIZE					3	
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS	
ADDITIVES: GENERAL: FUEL #4500 1248 2 1/4																
Weather: Water: Temp. Bbls:																

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-o-matic Chk d.	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG
Hydril					Rig Savers Chk d.	Fuel Rec d Today (add)	gals.	TO	KB USED	SAX	CEM
Pipe Rams					Kelly Cock Chk d.	TOTAL	gals.	PLUS	PLUG DOWN	A M P.M.	DAYS
Blind Rams					Fire Equip. Chk d.	Fuel on Hand 11.39 p.m. (deduct)	gals.	CEMENT RETURNS (YES NO)			
TOTCO RING ON BIT	7-8	Boiler Operated:	24	Hrs.		FUEL USED	gals.	GENERAL			



LOCATION INTERNATIONAL NUCLEAR SD. SEC. TWP. RGE. W. DATE JAN 27 19620  
 ET AL BLACK FLY HUSKY M55

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME																																																																							
											START	STOP	INTVL																																																																					
84	21 7"	2 7/8	614.85	8.27	7					DRILLING 8 3/4 HOLE	1200	800	8																																																																					
49	18 3/4"			1	250	42				RUNNING																																																																								
<table border="1"> <tr> <th>4 a.m.</th> <th>6 a.m.</th> <th>PUMP</th> <th>12 m.</th> <th>2 a.m.</th> <th>4 a.m.</th> <th>6 a.m.</th> <th>MOTOR HOURS</th> <th>Next Oil Change</th> </tr> <tr> <td>250</td> <td>250</td> <td>No. 2</td> <td>PRES-SURE</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>42</td> <td>42</td> <td>MODEL</td> <td>S.P.M.</td> <td colspan="2">MOTOR ROLLS</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>16</td> <td></td> <td>LINER SIZE</td> <td></td> <td>5 1/2</td> <td>X</td> <td>12</td> <td>3</td> <td></td> </tr> <tr> <td colspan="2">U. Flow:</td> <td colspan="2">O. Flow:</td> <td colspan="2">SURVEYS</td> <td colspan="2">At Feet</td> <td>Degrees</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2">4</td> <td colspan="2"></td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2">5</td> <td colspan="2"></td> <td></td> </tr> <tr> <td colspan="2">Weather</td> <td colspan="2">Water</td> <td colspan="2">Temp.</td> <td colspan="2">Bbls.</td> <td></td> </tr> </table>											4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	250	250	No. 2	PRES-SURE				1		42	42	MODEL	S.P.M.	MOTOR ROLLS			2		16		LINER SIZE		5 1/2	X	12	3		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees					4									5					Weather		Water		Temp.		Bbls.		
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FIRES											DRILLER'S SIGNATURE																																																														
84	21 7"	2 7/8	614.85	8.27	2.96					RIG SEARVED UP	8:00	8:15	1/4																																																												
58	23"			1	300	42				DRILL	8:15	8:30	1/4																																																												
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FIRES											DRILLER'S SIGNATURE																																																														
82	19 7"	2 7/8	557.50	8.27	30					RIG SEARVED UP	4:00	4:15	1/4																																																												
7	2"			1	800	36				WORK OVERSHOT	4:15	5:30	1 1/4																																																												
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FUEL USED				CASING REPORT				EQUIPMENT CHANGES				DRILLER'S SIGNATURE		TRANSFER #	
Fuel on Hand 12.01 a.m.				RAN				JTS				CSG			
Fuel Rec'd Today (add)				TO				KB. USED				SAX		CEM	
TOTAL				PLUS				PLUG DOWN				A.M. P.M.		DAYS FROM SPUD. 14	
Fuel on Hand 11.39 p.m. (deduct)				CEMENT RETURNS (YES NO)				GENERAL				TOTAL COMPANY TIME		TOTAL CONTRACTOR'S TIME	
FUEL USED												HRS		HRS.	
Approved by Operator's Representative <i>[Signature]</i>												Approved by Toolpusher <i>[Signature]</i>			

OPY COM-33328

**COMMONWEALTH DRILLING LTD.**  
DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION INTERNATIONAL NUCLEAR ETAL BLACK FLYS LSD. SEC. TWP. MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
1185			5 1/4	80m	547	42		3	7	2 1/2	8890		5.78		25			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
6	12 1/4	ODV 3-18		18456	30-40	55					186	570	350	44		2	2	T
7		ODV 3-18		18456														
M.U.D.			12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP			12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS			Next Oil Change	
WEIGHT	85	85	85	No. 1	PRE-SURE	300	300	300	No. 2	PRE-SURE							1	
VISCOSITY	28	28	28	MODEL	S.P.M.	40	40	40	MODEL	S.P.M.	Mud	Roll				2		
GEL				LINER SIZE		8"	7"	16	LINER SIZE		5 1/2"	12				3		
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS						
ADDITIVES: CAUSTIC 200											GENERAL:		1186		3			
LIME 50#																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	Fires				

BEHVI 8  
RIG SER  
REAMING  
SURVEY  
PULL OUT  
RUN 1  
CLEAN 2  
WORK ON  
MOTORS  
FIRES

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
1185	23'	1208	7 1/2	724	547	42		21	7"	2 1/2	6145		827		4.54			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
7	8 3/4	ODV 3-18		18456	6-10	110	23	73			1	300	42				DRLG	
M.U.D.			8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP			8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS			Next Oil Change	
WEIGHT	84	8.4	7.4	8.4	No. 1	PRE-SURE	250	300	500	250	No. 2	PRE-SURE					1	
VISCOSITY	28	22	28	28	MODEL	S.P.M.	40	42	40	42	MODEL	S.P.M.	Mud	Roll				2
GEL					LINER SIZE		8"	7"	16	LINER SIZE		5 1/2"	12				3	
W.L.	F.C.	pH. 12.5	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS						
ADDITIVES: CAUSTIC 200											GENERAL:							
LIME 150																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	Fires				

RIG SERV  
PULL W  
WORK ON  
DRILL

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
1208	8	1216	3 1/4	74m	578	84		21	7"	2 1/2	6145		827		25		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
7	8 3/4	ODV 3-18		18456	10	130	31	104			1	300	42				RUNNING
M.U.D.			4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP			4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS			Next Oil Change
WEIGHT	89	8.9	8.4		No. 1	PRE-SURE					No. 2	PRE-SURE					1
VISCOSITY	22	28	28		MODEL	S.P.M.	55	7	16	MODEL	S.P.M.	5 1/2"	12				2
GEL					LINER SIZE		8"	7"	16	LINER SIZE		5 1/2"	12				3
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS					
ADDITIVES:											GENERAL:		210		3		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	Fires			

WORK  
RIG SERV  
RUNNING  
CHANGE  
DRILLING

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk'd.	Fuel on Hand 12.01 a.m.	gals	CASING REPORT			RAN	JTS	CSG	EQUI
Hydril					Rig Savers Chk'd.	Fuel Rec'd Today (add)	gals							
Pipe Rams.					Kelly Cock Chk'd.	TOTAL	gals	TO			KB USED	SAX	CEM	
Blind Rams.					Fire Equip. Chk'd.	Fuel on Hand 11.59 p.m. (deduct)	gals	PLUS			PLUG DOWN	A.M.	P.M.	DAYS
TOTCO RING ON BIT #7	Boiler Operated:	24	Hrs.	FUEL USED			gals	CEMENT RETURNS YES NO			GENERAL			

CONSERVATION BOARD COPY

LOCATION **INTERNATIONAL NUCLEAR** ET AL **BLACKFLY HUSKY M55** DATE **JAN 26** 196 **70**

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL.
7.42		8	2 1/2	2 1/8	8870		5.78		25	BEAM 8 3/4 TO 12 1/4	1200	1245	3/4
										RIG SER ✓ Bops	1245	100	1/4
										REAMING 1030 TO 1186	100	500	4
										SURVEY @ 1186	500	5'5	1/4
										PULL OUT STAND BACK 9" DC.	5'5	6'5	1
										BRUN IN	6'5	7'5	1
										CHEAN 25' TO Bottom	7'5	7'30	1/4
										WORK ON AIR DRILLERS	730		
										MOTORS			8 1/2

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES-SURE	1	2	
40	72	1	300	42
MODEL S.P.M.		MUD ROLL		
LINER SIZE		5 1/2 x 12		
U. Flow:		O. Flow:		
SURVEYS		At Feet Degrees		
		1186 3		
Weather		Water		
Temp.		Bbls.		
Total Miles		Slip or Cut		
At Miles		Date Slip or Cut		
Next Slip		Ft. Left on Spool		

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	START	STOP	INTVL.
7.42		21	7"	2 3/8	614.35		827		4.54	RIG SERVICE V BOPS	8.00	8.15	1/4
										DRILL W 6 to 10 TH	8.15	11.00	2 3/4
										WORK ON FLOW LINE	11.00	11.15	1/4
										DRILL	11.15	4.00	4 3/4

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES-SURE	1	2	
40	72	1	300	42
MODEL S.P.M.		MUD ROLL		
LINER SIZE		5 1/2 x 12		
U. Flow:		O. Flow:		
SURVEYS		At Feet Degrees		
		1210 3		
Weather		Water		
Temp.		Bbls.		
Total Miles		Slip or Cut		
At Miles		Date Slip or Cut		
Next Slip		Ft. Left on Spool		

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	START	STOP	INTVL.
8.84		21	7"	2 3/8	614.35		827		25	DRILL W 10 TH	4.00	5.30	1 1/2
										RIG SERVICE V BOPS	5.45	6.00	1/4
										SURVEY @ 1510	6.00	6.15	1/4
										DRILL	6.15	7.15	1
										CHANGE BODY SUBS ON	7.15		
										MANUELED 4" CRAWLER VALVE		11.15	4
										DRILLING	11.15	1200	3/4

FUEL USED		CASING REPORT		EQUIPMENT CHANGES		TRANSFER #	
Fuel on Hand 12.01 a.m.	gals	RAN	JTS	CSG			
Fuel Rec'd Today (add)	gals	TO	KB. USED	SAX	CEM		
TOTAL	gals	PLUS	PLUG DOWN	A.M. P.M.			
Fuel on Hand 11.59 p.m. (deduct)	gals	CEMENT RETURNS (YES NO)		GENERAL		DAYS FROM SPUD: 13	TOTAL COMPANY TIME HRS.
FUEL USED	gals					TOTAL CONTRACTOR'S TIME HRS.	

Approved by Operator's Representative *[Signature]*  
 Approved by Toolpusher *[Signature]*

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION INTERNATIONAL NUCLEAR LSD. SEC. TWP. MILES MOVED

MAILING POINT

SHIPPING POINT

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	RIG SER															
																	FINISH IN DRILLING WORK ON DRILLING SURVEYS DRILLING															
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	MOTOR HOURS			Next Oil Change										
																			1			2			3			4			5	
8 AM	MUD				PUMP				PUMP				MOTOR HOURS				Next Oil Change															
	WEIGHT				No. 1 PRES. SURE				No. 2 PRES. SURE				MOTOR HOURS				Next Oil Change															
TOUR	VISCOSITY				MODEL S.P.M.				MODEL S.P.M.				MOTOR HOURS				Next Oil Change															
	GEL				L.I.N.E.R. S.I.Z.E.				L.I.N.E.R. S.I.Z.E.				MOTOR HOURS				Next Oil Change															
TOUR	W.L.				DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS															
	ADDITIVES:				GENERAL:								At Feet				Degrees															
TOUR	Drilling Line Record				Trips				Total Miles				Feet or Cut				At Miles															
	Date Slip or Cut				Next Slip				Ft. Left on Spool				FIRES																			
TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	RIG SER															
													FINISH IN DRILLING WORK ON DRILLING SURVEYS DRILLING																			
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	MOTOR HOURS			Next Oil Change										
																			1			2			3			4			5	
8 AM	MUD				PUMP				PUMP				MOTOR HOURS				Next Oil Change															
	WEIGHT				No. 1 PRES. SURE				No. 2 PRES. SURE				MOTOR HOURS				Next Oil Change															
TOUR	VISCOSITY				MODEL S.P.M.				MODEL S.P.M.				MOTOR HOURS				Next Oil Change															
	GEL				L.I.N.E.R. S.I.Z.E.				L.I.N.E.R. S.I.Z.E.				MOTOR HOURS				Next Oil Change															
TOUR	W.L.				DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS															
	ADDITIVES:				GENERAL:								At Feet				Degrees															
TOUR	Drilling Line Record				Trips				Total Miles				Feet or Cut				At Miles															
	Date Slip or Cut				Next Slip				Ft. Left on Spool				FIRES																			
TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	RIG SER															
													FINISH IN DRILLING WORK ON DRILLING SURVEYS DRILLING																			
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	MOTOR HOURS			Next Oil Change										
																			1			2			3			4			5	
8 AM	MUD				PUMP				PUMP				MOTOR HOURS				Next Oil Change															
	WEIGHT				No. 1 PRES. SURE				No. 2 PRES. SURE				MOTOR HOURS				Next Oil Change															
TOUR	VISCOSITY				MODEL S.P.M.				MODEL S.P.M.				MOTOR HOURS				Next Oil Change															
	GEL				L.I.N.E.R. S.I.Z.E.				L.I.N.E.R. S.I.Z.E.				MOTOR HOURS				Next Oil Change															
TOUR	W.L.				DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS															
	ADDITIVES:				GENERAL:								At Feet				Degrees															
TOUR	Drilling Line Record				Trips				Total Miles				Feet or Cut				At Miles															
	Date Slip or Cut				Next Slip				Ft. Left on Spool				FIRES																			
TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	RIG SER															
													FINISH IN DRILLING WORK ON DRILLING SURVEYS DRILLING																			
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	MOTOR HOURS			Next Oil Change										
																			1			2			3			4			5	
8 AM	MUD				PUMP				PUMP				MOTOR HOURS				Next Oil Change															
	WEIGHT				No. 1 PRES. SURE				No. 2 PRES. SURE				MOTOR HOURS				Next Oil Change															
TOUR	VISCOSITY				MODEL S.P.M.				MODEL S.P.M.				MOTOR HOURS				Next Oil Change															
	GEL				L.I.N.E.R. S.I.Z.E.				L.I.N.E.R. S.I.Z.E.				MOTOR HOURS				Next Oil Change															
TOUR	W.L.				DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS															
	ADDITIVES:				GENERAL:								At Feet				Degrees															
TOUR	Drilling Line Record				Trips				Total Miles				Feet or Cut				At Miles															
	Date Slip or Cut				Next Slip				Ft. Left on Spool				FIRES																			

CONSERVATION BOARD COPY

LOCATION INTERNATIONAL NUCLEAR ETAH BRACKLEY HUSKY 1155 L8D. SEC. TWP. RGE. W. DATE JAN 25 19620

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles 2 97	DRILL COLLARS 21	No. 7	O.D. 7"	I.D. 2 3/8	Length 614.85	Air Wt. 8.27	Sub. Wt. 8.27	C.B. Ft. 8	Ft. up on Kelly	
Drilled or Cored 58	Hrs. 7	Reamed	Hrs.	Pump No. 1	Pump Pressure 350	S.P.M. 44	Table Torque	T. RUNNING	B. G.	
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		
350	350	No. 2	PRES-SURE MUD	TANKS				Next Oil Change		
44	44	MODEL	S.P.M.							
16		LINER SIZE 9 1/2	5 1/2 X 12							
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				1056		1 3/8		5		
				Weather		Water		Bbls.		
				Temp.						
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
RIG SER ✓ BOPS	1200	1215	1/4
FINISH IN	1215	1230	1/4
DRILLING 8 3/4 HOLE	1220	300	2 1/2
WORK ON PUMP	300	330	1/2
DRILLING	330	530	2
SURVEY @ 1056	530	545	1/4
DRILLING	545	800	2 1/4
FIRES			
DRILLER'S SIGNATURE <i>D. H. H. H.</i>			

Singles 82	DRILL COLLARS 21	No. 7	O.D. 7"	I.D. 2 3/8	Length 614.85	Air Wt. 8.27	Sub. Wt. 8.27	C.B. Ft. 199	Ft. up on Kelly	
Drilled or Cored 127	Hrs. 13 1/2	Reamed	Hrs.	Pump No. 1	Pump Pressure 300	S.P.M. 42	Table Torque	T. DRILL	B. G.	
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		
300	300	No. 2	PRES-SURE TANKS					Next Oil Change		
44	42	MODEL	S.P.M.							
		LINER SIZE 5 1/2	X 12							
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				1088		2 1/2		3		
				1119		2 1/2		3		
				Weather		Water		Bbls.		
				Temp.						
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
DRILL	800	815	1/4
RIG SERVICE / BOPS	815	830	1/4
SURVEY @ 1119	830	845	1/4
DRILL	845	1200	3 1/2
SURVEY @ 1119	1200	1215	1/4
WORK ON 4" LAMERON	1215	1245	1/2
DRILL	1245	400	3 1/4
FIRES			
DRILLER'S SIGNATURE <i>R. H. H. H.</i>			

Singles 142	DRILL COLLARS 21	No. 7	O.D. 7"	I.D. 2 3/8	Length 614.85	Air Wt. 8.27	Sub. Wt. 8.27	C.B. Ft. 26	Ft. up on Kelly	
Drilled or Cored 163	Hrs. 18	Reamed	Hrs.	Pump No. 1	Pump Pressure 300	S.P.M. 44	Table Torque	T. 2 2 I	B. G.	
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		
		No. 2	PRES-SURE Mud					Next Oil Change		
		MODEL	S.P.M.							
		LINER SIZE 10 1/2	5 1/2 X 12							
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				1147		2 1/2		5		
				1182		3 1/2		5		
				Weather		Water		Bbls.		
				Temp.						
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
RIG SERVICE / BOPS	400	415	1/4
SURVEY @ 1149	415	430	1/4
DRILL	430	800	3 1/2
SURVEY @ 1182	800	815	1/4
DRILLING	815	900	3/4
PULL OUT W/ BIT	900	1000	1
SLIP 20' DRILL LINE	1000	1015	1/4
PICK UP 9" STAND DC.	1015		
RUN IN		1130	1 1/4
REAM 8 3/4 TO 12 1/4	1130	1200	1/2
FIRES			
DRILLER'S SIGNATURE			

Fuel on Hand 12.01 a.m.	gals.	CASING REPORT			EQUIPMENT CHANGES			TRANSFER #	
Fuel Re'd Today (add)	gals.	RAN	JTS	CSG					
TOTAL	gals.	TO	KB USED	SAX	CEM				
Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD: 13	TOTAL COMPANY TIME	TOTAL CONTRACTOR S TIME	HRS.
FUEL USED	gals.	CEMENT RETURNS (YES NO)	GENERAL						
							Approved by Operator's Representative	<i>R. H. H. H.</i>	
							Approved by Toolpusher	<i>W. H. H. H.</i>	

COPY COM-35033



**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION Interior Nuclear Fuel LSD. SEC. TWP. MILES MOVED

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	MOTOR HOURS		Next Oil Change			
																	12 mn.	2 a.m.		4 a.m.	6 a.m.	12 mn.
TOUR MIDNIGHT TO 8 AM	865	76	942	6	95	278	78		3	9"	7"	28	538	12	5.78							
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.				
	4	1 1/4	WDJ	3-18	52922	30	90	74	6				1	350	44							
	M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change				
	WEIGHT		8.5	9.5	8.5	No. 1 PRES. SURE			350	350	350	No. 2 PRES. SURE										
	VISCOSITY		28	28	28	MODEL S.P.M.			44	44	44	MODEL S.P.M.										
	GEL					LINER SIZE			7 x 1 1/2			LINER SIZE										
	W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS															
	ADDITIVES: CAUSTIC 200 LIME 200												At Feet	Degree								
	Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES							
TOUR 8 AM TO 4 PM	942	55	997	5	85m	339	98		3	7"	2 1/2"	28	528	12	5.78							
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.				
	4	1 1/4	WDJ	3-18	52922	30	40	80	231	SMALL			1	350	44							
	M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change				
	WEIGHT		8.5	8.5	8.5	No. 1 PRES. SURE			350	350	350	No. 2 PRES. SURE										
	VISCOSITY		28	28	28	MODEL S.P.M.			44	44	44	MODEL S.P.M.										
	GEL					LINER SIZE			7 x 1 1/2			LINER SIZE										
	W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS															
	ADDITIVES: CAUSTIC 200 LIME 100												At Feet	Degree								
	Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES							
TOUR 4 PM TO MIDNIGHT	997		1022	3	25M	361	22		21	7"	2 1/2"	28	448	12	5.78							
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.				
	4	1 1/4	WDJ	3-18	52922	30	100						2	200	69							
	M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change				
	WEIGHT		9.5	8.5		No. 1 PRES. SURE						No. 2 PRES. SURE										
	VISCOSITY		28	28		MODEL S.P.M.						MODEL S.P.M.										
	GEL					LINER SIZE						LINER SIZE										
	W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS															
	ADDITIVES: GENERAL												At Feet	Degree								
	Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES							

B.O.P.	Tested	Elapsed Time	Pres. sure	Packing & Seal Inspected Date	Crown-o-matic Chk d.	Fuel on Hand 12.01 a.m.	gals	CASING REPORT				RAN	ITS	CSG	EQUI	
Hydril					Rig Savers Chk d.	Fuel Rec d Today (add)	gals									
Pipe Rams.					Kelly Cork Chk d.	TOTAL	gals					TO	KB USED	SAT	CEM	
Blind Rams.					Fire Equip Chk d.	Fuel on Hand 11.59 p.m. (deduct)	gals					PLUS	%	PLUG DOWN	A.M. P.M.	DAYS
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED	gals	CEMENT RETURNS (YES NO)				GENERAL				

Blackfoot Husky Miss

LOCATION International Nuclear Fuel LSD. SEC. TWP. RGE. W. DATE Jan 24/70

MILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	REMARKS	TIME		
											START	STOP	INTVL
78		3	7"	2 7/8"	528	12	5.78			Finish cut	8:00	12:15	1/4
		19	7"	2 7/8"	528	12	5.78			Big Service + check 1st line	12:15	12:30	1/4
										Run in	12:30	1:30	1/4
										Drilling	1:30	2:15	1/4
										Survey	2:15	2:30	1/4
										Drilling	2:30	7:45	5 1/4
										Survey	7:45	8:00	1/4

MOTOR HOURS												Next Oil Change		
4 a.m.	6 a.m.		12 m.n.	2 a.m.	4 a.m.	6 a.m.								
350	350	No. 2												
44	44	MODEL	S.P.M.											
		150	LINER SIZE	5 1/2 x 12										

MOTOR HOURS												Next Oil Change		
12 noon	2 p.m.		8 a.m.	10 a.m.	12 noon	2 p.m.								
350	350	No. 2												
44		MODEL	S.P.M.											
6		150	LINER SIZE	5 1/2 x 12										

MOTOR HOURS												Next Oil Change		
3 p.m.	10 p.m.		4 p.m.	6 p.m.	8 p.m.	10 p.m.								
		No. 2		150										
		MODEL	S.P.M.											
		5 1/2 x 12	LINER SIZE											

FUEL USED				CASING REPORT				EQUIPMENT CHANGES				TRANSFER #		
Fuel on Hand 12.01 a.m.		gals.		RAN		ITS		CSG						
Fuel Rec'd Today (add)		gals.		TO		KB USED		SAX		CEM				
TOTAL		gals.		PLUS		%		PLUG DOWN		A.M. P.M.				
Fuel on Hand 11.59 p.m. (deduct)		gals.		CEMENT RETURNS - (YES NO)				GENERAL						
FUEL USED		gals.												

Approved by Operator's Representative  
 Approved by Toolpusher  
 COM. 35032

COPY

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22 LOCATION INTERNATIONAL OIL FIELD, L.S.D. SEC.        TWP.         
 MAILING POINT        SHIPPING POINT        MILES MOVED       

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
693	49	742	5	80	9091			18	7	2 7/8	8870	52812	578		12		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Sored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
3	12 1/4	WD7	3-15	52824	25-35	75-70	49	5			1	350	32		R	U	N
M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT		8.4	8.5	8.7	No. 1 PRES. SURE	400	400	350	350	No. 2 PRES. SURE					1		
VISCOSITY		28	28	32	MODEL S.P.M.	34	34	33	33	MODEL S.P.M.					2		
GEL					LINER SIZE	7 1/2	16			LINER SIZE	5 1/2	14		3			
W.L.	F.C.	pH	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS											
		12.5				At Feet	Degrees										
ADDITIVES: <u>4 ME - 50#</u>						GENERAL: <u>Sawdust - 10 Sax</u>											
ADDITIVES: <u>CEL - 2500#</u>						SURVEYS: <u>722 13</u>											
ADDITIVES: <u>Caustic - 350#</u>						Weather: <u>      </u> Water: <u>      </u>											
ADDITIVES: <u>      </u>						Temp.: <u>      </u> Bbls: <u>      </u>											
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
742	76	818	7	84m	184	38		18	7	2 7/8	8870	52812	578		DOWN		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Sored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
3	12 1/4	WD7	3-18	52824	25-40	80	135	12			1	400	54		RUNNING		
M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	8.8	8.7	8.6	8.6	No. 1 PRES. SURE	325	400	400	400	No. 2 PRES. SURE					1		
VISCOSITY	29	29	29	29	MODEL S.P.M.	44	44	99	44	MODEL S.P.M.					2		
GEL					LINER SIZE	7	16			LINER SIZE	5 1/2	14		3			
W.L.	F.C.	pH	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS											
		12.5				At Feet	Degrees										
ADDITIVES: <u>      </u>						GENERAL: <u>      </u>											
ADDITIVES: <u>      </u>						SURVEYS: <u>754 13</u>											
ADDITIVES: <u>      </u>						SURVEYS: <u>785 10</u>											
ADDITIVES: <u>      </u>						SURVEYS: <u>817 14</u>											
ADDITIVES: <u>      </u>						Weather: <u>      </u> Water: <u>      </u>											
ADDITIVES: <u>      </u>						Temp.: <u>      </u> Bbls: <u>      </u>											
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
818	50	868	6 1/2	84m	2	15.92		18	7	2 7/8	8870	52812	578		11		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Sored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
3	12 1/4	WD7	3-18	52824	30	80	175	18			1	400	44		S	S	I
M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	7.5	8.5	8.5	8.5	No. 1 PRES. SURE	350	350	250	350	No. 2 PRES. SURE					1		
VISCOSITY	28	28	28	28	MODEL S.P.M.	44	44	44	44	MODEL S.P.M.					2		
GEL					LINER SIZE	7	16			LINER SIZE	5 1/2	14		3			
W.L.	F.C.	pH	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS											
						At Feet	Degrees										
ADDITIVES: <u>Caustic 100#</u>						GENERAL: <u>      </u>											
ADDITIVES: <u>LIME 50#</u>						SURVEYS: <u>847 11</u>											
ADDITIVES: <u>      </u>						Weather: <u>      </u> Water: <u>      </u>											
ADDITIVES: <u>      </u>						Temp.: <u>      </u> Bbls: <u>      </u>											
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk d.	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	EQU
Hydri					Rig Savers Chk d.	Fuel P Today (add)	gals.					
Pipe Rams					Kelly Cock Chk d.	TOTAL	gals.	10	KB USED	SAX	CEM	
Blind Rams					Fire Equip. Chk d.	Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS		PLUG DOWN	A.M. P.M.	DAYS
TOTCO RING ON BIT # <u>3</u>				Boiler Operated: <u>24</u> Hrs.		FUEL USED	gals.	CEMENT RETURNS (YES NO)		GENERAL		

CONSERVATION BOARD COPY

Plattly, Missy MSS

LOCATION INTERNATIONAL NUCLEAR FUEL LSD. SEC. TWP. RGE. W. DATE 12-23-70

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No. 18	O.D. 7"	I.D. 2 7/8"	Length 528.12	Air Wt. 5870	Sub. 578	C.B. Ft.	Ft. up on Kelly 12	
Drilled	Hrs. 49	Reamed	Hrs. 5	Pump No. 1	Pump Pressure 350	S.P.M. 32	Table Torque	T. R. U. N.	G.	
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
350	350	No. 2	PRES. SURE							
33	33	MODEL	S.P.M.							
		950	LINER SIZE	5 1/2 X 14						
U. Flow:		O. Flow:		SURVEYS At Feet Degree						
ust - 10 Sax				722 1°						
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool

REMARKS	TIME		
	START	STOP	INTVL
Finish in Rig Service to check BOPs	12:00	12:45	1/4
Drilling	12:00	1:05	1/4
Drilling		2:05	1/4
Drilling		3:00	1/4
Drilling		4:00	1/4
Drilling		5:00	1/4
FUEL - 4"			

FIRES *John Robinson* DRILLER'S SIGNATURE

Singles	DRILL COLLARS	No. 18	O.D. 7"	I.D. 2 7/8"	Length 8870	Air Wt. 52812	Sub. 578	C.B. Ft.	Ft. up on Kelly DOWN	
Drilled or Cored	Hrs. 135	Reamed	Hrs. 12	Pump No. 1	Pump Pressure 400	S.P.M. 54	Table Torque	T. R. U. N.	G.	
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
400	400	No. 2	PRES. SURE	MOTOR TANKS						
94	44	MODEL	S.P.M.							
		150	LINER SIZE	5 1/2 X 12						
U. Flow:		O. Flow:		SURVEYS At Feet Degree						
				754 1°						
				785 1°						
				817 1 3/4						
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool

DRILLING	800	830	1/2
SURVEYS @ 754	830	845	1/4
RIG SER ✓ Bops	845	900	1/4
DRILLING	900	1230	3 1/2
SURVEY @ 785	1230	1245	1/4
<del>WORK STOP DRILLING</del>	1245	345	3
SURVEY @ 817	345	410	1/4

FIRES *H. Heigh* DRILLER'S SIGNATURE

Singles	DRILL COLLARS	No. 3	O.D. 9"	I.D. 2 1/8"	Length 8870	Air Wt. 51812	Sub. 578	C.B. Ft.	Ft. up on Kelly 11	
Drilled	Hrs. 175	Reamed	Hrs. 18	Pump No. 1	Pump Pressure 400	S.P.M. 44	Table Torque	T. R. U. N.	G.	
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
350	350	No. 2	PRES. SURE							
44	44	MODEL	S.P.M.							
		150	LINER SIZE	5 1/2 X 14						
U. Flow:		O. Flow:		SURVEYS At Feet Degree						
				847 1%						
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool

RIG SER ✓ Bops	400	415	1/4
DRILLING	415	715	3
SURVEY @ 847	715	730	1/4
DRILLING	730	11:00	3 1/2
Hoist	11:00	12:00	1

FIRES DRILLER'S SIGNATURE

Fuel on Hand 12.01 a.m.	gals.	CASING REPORT			EQUIPMENT CHANGES		DRILLER'S SIGNATURE		TRANSFER #
Fuel F Today (add)	gals.	RAN	JTS	CSG					
TOTAL	gals.	IO	KB USED	SAX	CEM				
Fuel on Hand 11.59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD: 10		TOTAL COMPANY TIME	TOTAL CONTRACTOR S TIME
FUEL USED	gals.	CEMENT RETURNS - (YES/NO)	GENERAL					HRS	HRS
								Approved by Operator's Representative <i>[Signature]</i>	
								Approved by Toolpusher <i>[Signature]</i>	

COPY COM-35331

**COMMONWEALTH DRILLING LTD.**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. 22

LOCATION INTER TOWN NUCLEAR REACTOR

SEC. Black Mt TWP. 1st

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
	8 AM	512	70	580	1 1/2	74		2962	75	7	2 7/8		88.0		5.78				
No.		Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Coated	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
	2	1 1/4	XSSA-18	SH835	30	55	275	26				1	350	33					
M.U.D. 12 mn. 2 a.m. 4 a.m. 6 p.m. PUMP 12 mn. 2 a.m. 4 a.m. 6 a.m. PUMP MOTOR HOURS Next Oil Change WEIGHT 8.5 8.5 8.5 8.5 No. 1 PRES. 325 325 325 325 No. 2 PRES. VISCOSITY 28 28 28 28 MODEL S.P.M. 33 33 33 33 MODEL S.P.M. GEL L.I.N.E.R. SIZE 7" X 16" L.I.N.E.R. SIZE 5 1/2" X 14" W.L. F.C. pH. 12.5 DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees ADDITIVES: CAUSTIC 300# GENERAL: FUEL - 6 LIME 300# 12.5 12.5 Weather Water Bbls Drilling Line Record Size Make Serial No. No. Lines Trips Ton Miles Total Miles Slip Feet or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool FIRES																			
4 PM	582	73	655	7	80m		348	18	18	2 7/8		88.0		5.78		8			
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Coated	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
	2	1 1/4	XSSA-18	SH835	30-20	60	348	33				1	350	34					
M.U.D. 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP MOTOR HOURS Next Oil Change WEIGHT 8.4 8.4 8.4 8.4 No. 1 PRES. 350 625 700 400 No. 2 PRES. VISCOSITY 28 28 28 28 MODEL S.P.M. 34 49 49 34 MODEL S.P.M. GEL L.I.N.E.R. SIZE 7" X 16" L.I.N.E.R. SIZE 5 1/2" X 14" W.L. F.C. pH. 12.5 DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees ADDITIVES: CAUSTIC #100 GENERAL: AERATED H2O LIME #50 CLEANING TANKS WHEN VOLUME IS UP. 634 2° Weather Water Bbls Drilling Line Record Size Make Serial No. No. Lines Trips Ton Miles Total Miles Slip Feet or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool FIRES																			
4 PM	655	38	693	4 1/4	80m		386	18	17	2 7/8		88.0		5.78					
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Coated	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
	2	1 1/4	XSSA-18	SH835	30-20	75	386	37				1	400	34					
M.U.D. 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP MOTOR HOURS Next Oil Change WEIGHT 8.4 8.4 8.4 8.4 No. 1 PRES. 450 450 400 No. 2 PRES. VISCOSITY 28 28 28 28 MODEL S.P.M. 34 34 34 34 MODEL S.P.M. GEL L.I.N.E.R. SIZE 7" X 16" L.I.N.E.R. SIZE 5 1/2" X 12" W.L. F.C. pH. DESILTER: Hours Op. U. Flow: O. Flow: SURVEYS At Feet Degrees ADDITIVES: GENERAL: 2 1/2 1 1/2 Weather Water Bbls Drilling Line Record Size Make Serial No. No. Lines Trips Ton Miles Total Miles Slip Feet or Cut At Miles Date Slip or Cut Next Slip Ft. Left on Spool FIRES																			

CONSERVATION BOARD COPY

LOCATION INTER-TION NUCLEAR FAC Black Mt. Tasty WSS DATE Jun 22/70

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
2962	75	7	2 7/8	2 1/2	8870	5.76			
275	266				350	33			RUN

REMARKS	TIME		
	START	STOP	INTV
Drilling	12:00	12:30	1/2
RIG SERVICE & CHECK ETC'S	12:30	12:45	1/4
SURVEY	2:15	1:00	1/4
Throw out air lines	1:00	1:15	1/4

a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
323	323	No. 2					1	
33	33	MODEL					2	
16	16	LINER SIZE	5 1/2	X	14		3	

Drilling	1:15	2:45	2 1/2
Pick up 3 Drill collars	2:45	4:15	1 1/2
Drilling	4:15	1:45	1/2
Survey	6:15	7:00	1/4
Drilling	7:00	8:00	1

U. Flow: FUEL-6 O. Flow: SURVEYS

FIRE DRILLER'S SIGNATURE

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
348	18	18	2 7/8	2 1/2	8870	5.76			8
348	336				350	34			RUNNING

DRILLING	8:00	9:45	1 3/4
RIG SER ✓ BOP	9:45	10:00	1/4
DRILLING	10:00	12:15	2 1/4
SURVEY @ 634	12:15	12:30	1/4

2 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
400	400	No. 2					1	
49	34	MODEL					2	
16	16	LINER SIZE	5 1/2	X	14		3	

PICK UP 3 DRILL COLLARS	12:30	1:00	3/4
DRILLING	1:00	4:00	3

U. Flow: H2O O. Flow: SURVEYS

FIRE DRILLER'S SIGNATURE

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
2962	18	17	2 7/8	2 1/2	8870	5.76			
386	378				400	34			B S I

DRILLING	4:00	4:15	1/4
RIG RIG SER - SURVEY @ 634	4:15	4:30	1/4
DRILLING	4:30	5:30	1
Check	5:30	9:45	4 1/4

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
34	34	No. 2					1	
		MODEL					2	
		LINER SIZE	5 1/2	X	12		3	

Change out + check mud zone	9:45	10:00	1/4
Drill house ok	10:00	10:50	1/2
Run in	1:50	12:00	1 1/2

U. Flow: O. Flow: SURVEYS

FIRE DRILLER'S SIGNATURE

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	ITS	CSG	EQUIPMENT CHANGES	TRANSFER #
Fuel Rec'd Today (add)	gals.	TO	KB USED	SAX	CEM		
TOTAL	gals.	PLUS				DAYS FROM SPUD: 1	TOTAL COMPANY TIME HRS
Fuel on Hand 11:59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES NO)	GENERAL				TOTAL CONTRACTOR'S TIME HRS
FUEL USED	gals.						HI S.

Approved by Operator's Representative *P. J. Stahl*  
 Approved by Toolpusher *[Signature]*

COPY COM- [Signature]

**COMMONWEALTH DRILLING LTD.**

**DAILY DRILLING LOG**

DIRECTIONS TO WELL

RIG NO. 22

LOCATION Inter...

DATE 2/21/74 TWP. 14-ky

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
350	21	371	2 1/4	56		2	6001	7	7	2 1/2	8870				

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
2	12 1/4 X 55H	3-16		6H855	30	55	76	5 1/2			2	250	63				

M U D	12 m.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 m.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT	8.4	8.4	8.4	8.4	No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY	28	28	28	28	MODEL S.P.M.	61				MODEL S.P.M.	63				2	
GEL					LINER SIZE	7 X 1				LINER SIZE	5 1/4 X 1 1/4				3	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow:	O. Flow:	SURVEYS
		12.0				At Feet Degrees

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
371	69	440	7 1/2	60 m		6001	3 4	7	2 1/2	8870	26549	578			20

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
2	12 1/4 X 55H	3-18		5H835	40	55					1	325	34				

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	8.5	8.5	8.5	8.5	No. 1 PRES. SURE	3	325	325	325	No. 2 PRES. SURE	250				1	
VISCOSITY	28	28	28	28	MODEL S.P.M.	34	34	34	34	MODEL S.P.M.	62				2	
GEL					LINER SIZE	7 X 1				LINER SIZE	5 1/4 X 1 1/4				3	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow:	O. Flow:	SURVEYS
		12.0				At Feet Degrees

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
440	72	512	6 1/4	67		3039	3	9	2 1/2	8870					8

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
2	12 1/4 X 55H	3-18		5H835	45-30	55		20	20		1	350	38				

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT	8.5	8.5	8.5	8.5	No. 1 PRES. SURE	32	22	35	35	No. 2 PRES. SURE					1	
VISCOSITY	28	28	28	28	MODEL S.P.M.	34	34	34	34	MODEL S.P.M.	11				2	
GEL					LINER SIZE	7 X 1				LINER SIZE	1 1/2				3	

W.L.	F.C.	pH.	DESILTER: Hours Op.	U. Flow:	O. Flow:	SURVEYS
		12.0				At Feet Degrees

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown o-matic Chk d.	Fuel on Hand 12 U. a.m.	gals.	CASING REPORT	RAN	ITS	CSG	EQUIPM
Hydril						Fuel Rec d Today (add)						
Pipe Rams						TOTAL						
Blind Rams						Fuel on Hand 11:59 p.m. (deduct)						
TOTCO RING ON BIT #		Soiler Operated:		Hrs.	Fire Equip. Chk d.	FUEL USED						

CONSERVATION BOARD COPY

LOCATION Intermountain Drilling Co. LTD. Black Mt. Hunky Miss DATE 10/1/51

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
2		7	2 7/8		8870		575		
16		2	2 5/8		63				

PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
No. 2	PRES. SURE					250	1
MODEL	S.P.M.					63	2
LINER SIZE							3

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
6001		3	9	2 1/2	8870		578		20
16		1	3 25		34				

PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
No. 2	PRES. SURE					250	1
MODEL	S.P.M.					62	2
LINER SIZE						5 1/2	3

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
1		3	9	2 1/2	8870		578		8
20		1	3 50		32				

PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
No. 2	PRES. SURE					330	1
MODEL	S.P.M.					33	2
LINER SIZE							3

REMARKS	TIME		
	START	STOP	INTVL
Drilling	12:00	12:15	1/4
Drilling	1:00	1:15	1/4
Drilling	1:45	2:00	1/4

REMARKS	TIME		
	START	STOP	INTVL
RIG SER V BOP	8:00	8:15	1/4
DRILLING	8:15	11:45	3 1/2
SURVEY @ 400	11:45	12:00	1/4
DRILLING	12:00	4:50	H

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	4:50	6:15	2 1/4
RIG SER V BOP	6:15	6:30	1/4
SURVEY @ 460	6:30	6:45	1/4
DRILLING	6:45	7:00	1/4
SURVEY	7:00	9:40	1 3/4
Work on motor	9:15	9:05	1/2
Drilling	9:45	12:00	2 1/4

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	ITS	CSG	EQUIPMENT CHANGES	TRANSFER #
Fuel Rec'd Today (add)	gals.	TO	KB USED	SAX	CEM	DAYS FROM SPUD	TOTAL COMPANY TIME HRS.
TOTAL	gals.	PLUS	PLUG DOWN	A.M.	P.M.		TOTAL CONTRACTOR'S TIME HRS.
Fuel on Hand 11:59 p.m. (deduct)	gals.	CEMENT RETURNS (YES/NO)	GENERAL				
FUEL USED	gals.						

DRILLER'S SIGNATURE	<i>John Robinson</i>
DRILLER'S SIGNATURE	<i>H. Heigh</i>
DRILLER'S SIGNATURE	<i>H. Heigh</i>
Approved by Operator's Representative	<i>H. Heigh</i>
Approved by Toolpusher	



COMMONWEALTH DRILLING LTD.

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22

LOCATION International Nuclear Test

LSD

SEC

TWP

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR	MIDNIGHT TO 8 AM	From		Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		255	295																
B	No.	1	12 1/4 ODV	3-22	RR #2A	25	90	52	7 3/4	3	9	2 3/8	8870	578	67	67	7	6	I
M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT						No. 1	PRES. SURE						No. 2	PRES. SURE					
VISCOSITY						MODEL	S.P.M.						MODEL	S.P.M.					
GEL						LINER SIZE	7 1/2						LINER SIZE	5 1/2					
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS							
ADDITIVES:	GENERAL:																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

TOUR	8 AM TO 4 PM	From		Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		255	295																
B	No.	1	12 1/4 ODV	3-22	RR #2A	25	90	40	5	3	9	2 3/8	8870	578	67	67	7	6	I
M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT						No. 1	PRES. SURE						No. 2	PRES. SURE					
VISCOSITY						MODEL	S.P.M.						MODEL	S.P.M.					
GEL						LINER SIZE	7 1/2						LINER SIZE	5 1/2					
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS							
ADDITIVES:	GENERAL: 1" H2O																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

TOUR	4 PM TO MIDNIGHT	From		Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		295	350																
B	No.	1	12 1/4 ODV	3-22	RR #2A	25	90	52	7 3/4	3	9	2 3/8	8870	578	67	67	7	6	I
M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT						No. 1	PRES. SURE						No. 2	PRES. SURE					
VISCOSITY						MODEL	S.P.M.						MODEL	S.P.M.					
GEL						LINER SIZE	6 7/8						LINER SIZE	6 7/8					
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS							
ADDITIVES:	GENERAL: 1" H2O																		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspection Date	Crown o-matic Chk d	Fuel on Hand 12.01 a.m.	CASING REPORT		EQ
Hydriil					Rig Savers Chk d	Fuel Rec d Today (add)	gals	PLUS	CSG
Pipe Rams					Kelly Cack Chk d	TOTAL	gals	X8 USED	CEM
Blind Rams					Fuel on Hand 11.59 p.m. (deduct)	gals	PLUS	PLUG DOWN	DAY
TOTCO RING ON BIT #	Boiler Operated:	Hrs.	Fire Equip Chk d	FUEL USED	gals	CEMENT RETURNS - (YES NO)		GENERAL	

CONSERVATION BOARD COPY

LOCATION International Nuclear et al Husky Black Sky 1155 DATE Jan 20 / 70 1970  
 SEC. TWP. RGE. W.

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
965	3	7	2 1/8	1 3/4	8570	5.78				
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
6 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
		No. 2	PRES-SURE					1		
		MODEL	S.P.M.					2		
		150	LINER SIZE		5 1/2 x 14			3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				5						
				Weather		Water				
				Temp.						Bbls
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL.
Kir Service to back 20R	12:00	12:15	1/4
Dry hole w/cut	12:15	12:30	1/4
Hole making water appear			
6 cobbles hr			
COPEI			
1750 & FAI			
FUEL - 6'2"			
FIRES			
DRILLER'S SIGNATURE			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
440	6	7	2 1/8	1 3/4	17560	5.78			16	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
440	5			1	450	67				RUNNING
noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
00	450	No. 2	PRES-SURE					1		
7	67	MODEL	S.P.M.					2		
		30	LINER SIZE					3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4		283 1/2				
				5						
				Weather		CLEAR		Water		
				Temp.		25°				Bbls
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL.
CHANGE OVER FROM AIR	8:00		
TO WATER		9:30	1/2
DRILL 12 1/4 HOLE	9:30	12:30	3
SURVEY @ 283 - 1/2	9:20	12:45	1/4
REPAIR CHAIN & WORK ON D.C.U.	12:45	2:00	1/4
DRILLING	2:00	4:00	2
TRIP FOR PART			
FIRES			
DRILLER'S SIGNATURE			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
52	7	7	2 1/8	1 3/4	9560	5.78			21	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
52	7 3/4			1	450	67				7 6 I
				1	600	67				
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
50	450	No. 2	PRES-SURE					1		
27	67	MODEL	S.P.M.					2		
			LINER SIZE					3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				5						
				Weather		Water				
				Temp.						Bbls
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL.
DRILLING	4:00	6:45	2 3/4
TRIP FOR PART	6:45	7:45	1
DRILLING	7:45	5:18	1/2
Kir Service to back 20R	5:18	5:20	1/4
Drilling	5:20	12:00	3 1/2
FIRES			
DRILLER'S SIGNATURE			

FUEL ON HAND 12.01 a.m.		GALS.		CASING REPORT		EQUIPMENT CHANGES		TRANSFER #	
Fuel Rec'd Today (add)				TO	KB USED	SAX	CEM		
TOTAL				PLUS					
Fuel on Hand 11.59 p.m. (deduct)				PLUG DOWN		A.M. P.M.		DAYS FROM SPUD:	
FUEL USED				CEMENT RETURNS - (YES NO)		GENERAL		TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
								HRS	HRS
Approved by Operator's representative								Approved by Toolpusher	

COPY COM

**COMMONWEALTH DRILLING LTD.**

**DAILY DRILLING LOG**

DIRECTIONS TO WELL

RIG NO. 22

MA:LING POINT

LOCATION WATER

SHIPPING POINT

SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
255													576		

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2	
GEL					LINER SIZE					LINER SIZE					3	
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS		4		
ADDITIVES:												GENERAL:		5		

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
255				450				3	7		2650		578		

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
1	12 1/4	DUY	3-12	REAR 10							1	450	66				

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2	
GEL					LINER SIZE					LINER SIZE					3	
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS		4		
ADDITIVES:												GENERAL:		5		

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
255															

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
1																	

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1	
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2	
GEL					LINER SIZE					LINER SIZE					3	
W.L.	F.C.	pH.	DESILTER: Hours Op:			U. Flow:			O. Flow:			SURVEYS		4		
ADDITIVES:												GENERAL:		5		

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

B.O.P.	Tested	Elapsed Time	Prev. to e	Packing & Seal Inspected Date	Crown-a-matic Chk d	Fuel on Hand 12 01 a.m.	gals	CASING REPORT				RAN	ITS	CSG
Hydrii					Rig Savers Chk d	Fuel Rec'd Today (add)	gals							
Pipe Rams					Kelly Cack Chk d	TOTAL	gals							
Blind Rams					Fire Equip. Chk d	Fuel on Hand 11 59 p.m. (deduct)	gals							
TOTCO RING ON BIT #	Boiler Operated.	Hrs					FUEL USED	gals	CEMENT RETURNS (YES NO)				GENERAL	

CONSERVATION BOARD COPY

*Wipple*  
*FUEL - 75*  
*FIRES*  
*HEAD UP*  
*APRES-IT*  
*2 9" L*  
*Press. Test*  
*FIRES*  
*PIPE JOBS*  
*R. H. H. S.*  
*WELL ON*  
*6 1/2" O.D.*  
*Drill line*  
*FEET 7*  
*1000 P.S.*  
*FIRES*

*checked Rig Savers O.K.*

MUSKY BLACK FLY MISS

LOCATION ENTRENA WITH MUDRAN 2766 SEC.      TWP.      RGE.      W.      DATE Jan 11 / 70 196

MAILING POINT      SHIPPING POINT      MILES MOVED      ROAD CONDITIONS     

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
							578				
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
4 a.m.	6 a.m.	PUMP				12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees			
				4							
				5							
				Weather						Water	
				Temp.						Bbls.	
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip	
										Ft. Left on Spool	

REMARKS

Nipple up

12 5 8

FUEL - 7'5"

DRILLER'S SIGNATURE

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
							578				
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
12 noon	2 p.m.	PUMP				8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees			
				4							
				5							
				Weather						Water	
				Temp.						Bbls.	
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip	
										Ft. Left on Spool	

HEAD UP

APRES - IF RUN IN pick up

2 9" E. COLLARS

800 4 8

Press. Test Blind Rams w/ 800 P.S.I. OK

ARM

DRILLER'S SIGNATURE

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
8 p.m.	10 p.m.	PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees			
				4							
				5							
				Weather						Water	
				Temp.						Bbls.	
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip	
										Ft. Left on Spool	

TEST TYPE RAMS 4 Hyd. w/ 1000 P.S.I. for 15 min OK.

ARM

DRILLER'S SIGNATURE

Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	ITS	CSG
✓ Fuel Rec'd Today (add)	gals.	TO	KB. USED	SAX	CEM
TOTAL	gals.	PLUS	PLUG DOWN	A.M. P.M.	DAYS FROM SPUD
Fuel on Hand 11.59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES-NO)	GENERAL		
FUEL USED	gals.				

EQUIPMENT CHANGES

TRANSFER #

TOTAL COMPANY TIME

TOTAL CONTRACTOR'S TIME

Approved by Operator's Representative

Approved by Toolpusher

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG  
DIRECTIONS TO  
WELL

RIG NO. 252 LOCATION STAL LSD SEC.        TWP.        MILES MOVED       

MAILING POINT        SHIPPING POINT       

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DP L COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
252				22M							17500		763		

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOUR	Next Oil Change
-------	--------	--------	--------	--------	---------	--------	--------	--------	--------	---------	--------	--------	--------	--------	------------	-----------------

WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE							
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.							
GEL					LINER SIZE					LINER SIZE							

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees	
ADDITIVES:			GENERAL:					Weather	Water
								Temp.	Bbls

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
----------------------	------	------	------------	-----------	-------	-----------	-------------	------	-------------	----------	------------------	-----------	-------------------

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
255															

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
-------	--------	---------	---------	--------	---------	--------	---------	---------	--------	---------	--------	---------	---------	--------	-------------	-----------------

WEIGHT					No. 1 PRES-SURE					No. 2 PRES-SURE							
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.							
GEL					LINER SIZE					LINER SIZE							

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees	
ADDITIVES:			GENERAL:					Weather	Water
								Temp.	Bbls

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
----------------------	------	------	------------	-----------	-------	-----------	-------------	------	-------------	----------	------------------	-----------	-------------------

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk d	Fuel on Hand 12 01 a.m	gals	CASING REPORT	RAN	TS	CSG
Hydriil					Rig Savers Chk d	Fuel Rec d Today (add)	gals	TO	KB USED	SAX	CEM
Pipe Rams					Kelly Cock Chk d	TOTAL	gals	PLUS	PLUG DOWN	7:30 A.M.	DAYS
Blind Rams					Fire Equip Chk d	Fuel on Hand 11 59 p.m (deduct)	gals	CEMENT RETURNS (YES/NO)			
TOTCO RING ON BIT #		Boiler Operated:	Hrs.			FUEL USED	gals	GENERAL			

LOCATION ETAL -LSD. SEC.     TWP.     RGE.     W.     DATE     1967

MAILING POINT     SHIPPING POINT     MILES MOVED     ROAD CONDITIONS    

Singles	DF .L	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
	COLLARS	2	1	2 1/2	175.60	763			

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
No. 2	PRES-SURE					1		
MODEL	S.P.M.					2		
LINER SIZE		5 1/2 X 14				3		

SURVEYS		At Feet	Degrees
U. Flow:	O. Flow:		

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft up on Kelly

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.

PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
No. 2	PRES-SURE					1		
MODEL	S.P.M.					2		
LINER SIZE						3		

SURVEYS		At Feet	Degrees
U. Flow:	O. Flow:		

REMARKS  
 FUEL 5' 9"  
 W.O.C.  
 RACK OFF CASING NIPPLE UP  
 DRILLER'S SIGNATURE

REMARKS  
 W.O.C.  
 RACK OFF CASING NIPPLE UP  
 DRILLER'S SIGNATURE

REMARKS  
 W.O.C.  
 RACK OFF CASING NIPPLE UP  
 DRILLER'S SIGNATURE

CASING REPORT				EQUIPMENT CHANGES		TRANSFER #	
Fuel on Hand 12.01 a.m.	gals.	RAN	JTS	CSG			
Fuel Rec'd Today (add)	gals.	TO	KB USED	SAX	CEM		
TOTAL	gals.	PLUS	PLUG DOWN	4:30 A.M.	P.M.		
Fuel on Hand 11.59 p.m. (deduct)	gals.	CEMENT RETURNS - (YES/NO)	GENERAL				
FUEL USED	gals.						

APPROVED BY OPERATOR'S REPRESENTATIVE  
 APPROVED BY TOOLPUSHER  
 COM-

COPY

**COMMONWEALTH DRILLING**

**DAILY DRILLING LOG**  
DIRECTIONS TO WELL

R.G. NO. 22 LOCATION INTEREST ETHAN

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
178	17	255	5 1/2	40	28	2133	6	7	2 1/2	19560	763						
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
3A	17			REAMER	15	180			185	14 1/4							
4A	12 1/2	ODU 3-22		ER	15	180	133			13 1/4							

MUD	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1					No. 2					1	
VISCOSITY					MODEL					MODEL					2	
GEL															3	
W.L.	F.C.		pH.		DESILTER	Hours Op.		U. Flow		O. Flow			SURVEYS	At Feet	Degrees	4
ADDITIVES:					GENERAL:			FUEL - 1' 10'							5	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
255				42 m			6	7	2 1/2	19560	763						
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
3A	17 1/2			REAMER	15	180			32	5 1/4		AIR					

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
WEIGHT					No. 1					No. 2					1	
VISCOSITY					MODEL					MODEL					2	
GEL															3	
W.L.	F.C.		pH.		DESILTER	Hours Op.		U. Flow		O. Flow			SURVEYS	At Feet	Degrees	4
ADDITIVES:					GENERAL:										5	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub Wt.	C.B. Ft.	Ft. up on Kelly		
255				3 1/4; 42 m		3133	6	7	2 1/2	19560	763			3 1/2			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
5A	17 1/2			REAMER	15	180			675	8 1/2		AIR			4	4	I

B.O.P.	Tested	Elaps. Time	Pressure	Packing & Seal Inspected Date	Crown or Mat Link at	Fuel on Hand 12:01 a.m.	Fuel Rec'd Today (gals)	TOTAL	Fuel on Hand 11:59 p.m. (gals)	FUEL USED	CASING REPORT	RAN	ITS	CSG	RE

LOCATION INTERIOR FEDERAL OILFIELD, FTHL LSD SEC TWP RGL W DATE 11-17-55

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
2133	6	7	2 1/4	1 7/8	175.60	7.63										
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
	189		14 1/2					1	4	1						
			13 1/2													
4 a.m.		6 a.m.		PUMP		12 m.		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS		Next Oil Change
No. 2		PRES. SURE														1
MODEL		S.P.M.														2
LINE		SIZE		5 1/2 x 14												3
U. Flow		O. Flow		SURVEYS		At Feet		Degrees								4
																5
Weather		Water														
Temp.		Bbls														
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INVL
Beam 12 1/4	12:00	1:00	1
Tripped 12 1/4 bit	1:00	1:25	3/4
Drilling 12 1/4 hole	1:25	7:15	5 3/4
Beam 12 1/4	7:15	8:00	45
Beam 12 1/4	8:00	8:15	1/4
Beam 12 1/4	8:15	8:45	1/2
Beam 12 1/4	8:45	10:45	2
Beam 12 1/4	10:45	11:00	5/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
	6	7	2 1/4	1 7/8	175.60	7.63										
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
	32		5 1/4													
12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS		Next Oil Change
No. 2		PRES. SURE														1
MODEL		S.P.M.														2
LINE		SIZE		7												3
U. Flow		O. Flow		SURVEYS		At Feet		Degrees								4
																5
Weather		Water														
Temp.		Bbls														
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INVL
BIG SERV	8:00	8:15	1/4
RUN IN 2 1/2" PLUG	8:15	8:45	1/2
TRIP PENS. OUT	8:45	10:45	2
BEAM 12 1/4 TO 17 1/2"	10:45	11:00	5/4
BEAM FROM 188 TO 220			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
3133	6	7	2 1/4	1 7/8	175.60	7.63			3 UP							
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.						
	675		8 1/2					4	4	1						
8 p.m.		10 p.m.		PUMP		4 p.m.		6 p.m.		8 p.m.		10 p.m.		MOTOR HOURS		Next Oil Change
No. 2		PRES. SURE														1
MODEL		S.P.M.														2
LINE		SIZE		14												3
U. Flow		O. Flow		SURVEYS		At Feet		Degrees								4
																5
Weather		Water														
Temp.		Bbls														
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INVL
BIG SERV	11:00	11:15	1/4
BEAMING	11:15	7:30	3 1/4
CHANG. OVER TO MUD	7:30	8:00	1/2
2 1/2" PLUG	8:00	8:15	1/4
2 1/2" PLUG	8:15	8:30	1/4
2 1/2" PLUG	8:30	8:45	1/4
2 1/2" PLUG	8:45	9:00	1/4
2 1/2" PLUG	9:00	9:15	1/4
2 1/2" PLUG	9:15	9:30	1/4
2 1/2" PLUG	9:30	9:45	1/4
2 1/2" PLUG	9:45	10:00	1/4
2 1/2" PLUG	10:00	10:15	1/4
2 1/2" PLUG	10:15	10:30	1/4
2 1/2" PLUG	10:30	10:45	1/4
2 1/2" PLUG	10:45	11:00	1/4

Fuel on Hand 12:01 a.m.	90%	CASING REPORT		RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND		TRANSFER #
Fuel Rec'd Today (add)	90%			TO	AB USED	SAN	CEM		
TOTAL	90%			PLUS	PLUG DOWN	A M P.M.	DAYS FROM SPUD		TOTAL COMPANY TIME
Fuel on Hand 11:59 p.m. (deduct)	90%			CEMENT RETURNS (YES/NO)	EQUIPMENT CHANGES				TOTAL CONTRACTOR'S TIME
FUEL USED	90%								
Approved by Operator's Representative Approved by Toolpusher									

COM 40200



DRILL COLLARS	No.	C.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. on or After	
	2	7 1/2"	6 1/2"	6022	713			10'	
Status		Status		Status		Status		Status	
2 am		4 am		6 am		8 am		10 am	
2 pm		4 pm		6 pm		8 pm		10 pm	
O. Flow		O. Flow		O. Flow		O. Flow		O. Flow	
Weather		Weather		Weather		Weather		Weather	
Temp		Temp		Temp		Temp		Temp	
Date		Date		Date		Date		Date	
At Miles		At Miles		At Miles		At Miles		At Miles	

DRILL COLLARS	No.	C.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. on or After	
	2	7 1/2"	6 1/2"	6022	713			10'	
Status		Status		Status		Status		Status	
2 am		4 am		6 am		8 am		10 am	
2 pm		4 pm		6 pm		8 pm		10 pm	
O. Flow		O. Flow		O. Flow		O. Flow		O. Flow	
Weather		Weather		Weather		Weather		Weather	
Temp		Temp		Temp		Temp		Temp	
Date		Date		Date		Date		Date	
At Miles		At Miles		At Miles		At Miles		At Miles	

DRILL COLLARS	No.	C.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. on or After	
	2	7 1/2"	6 1/2"	6022	713			10'	
Status		Status		Status		Status		Status	
2 am		4 am		6 am		8 am		10 am	
2 pm		4 pm		6 pm		8 pm		10 pm	
O. Flow		O. Flow		O. Flow		O. Flow		O. Flow	
Weather		Weather		Weather		Weather		Weather	
Temp		Temp		Temp		Temp		Temp	
Date		Date		Date		Date		Date	
At Miles		At Miles		At Miles		At Miles		At Miles	

CUSTOMER'S COP

Drill No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly
DRILL COLLARS	7'	2 1/8"	6072	763			10'

Time	Temp	Water
4 am 6 am		
12 mn 2 am		
4 am 6 am		

DRILLER'S SIGNATURE

11:30 11:00

Drill No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly
DRILL COLLARS	2	7'	2 1/8"	6072	763		10'

Time	Temp	Water
2 noon 2 am		
4 am 6 am		
8 am 10 am		
12 noon 2 pm		

DRILLER'S SIGNATURE

11:30 11:00

Drill No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly
DRILL COLLARS	7'	2 1/8"	6072	763			10'

Time	Temp	Water
4 am 6 am		
8 am 10 am		
12 noon 2 pm		

DRILLER'S SIGNATURE

CUSTOMER'S COPY

DRILL No. 57  
 COLLARS 26  
 Length 147.23  
 Air Wt. 7.63  
 Sub. Wt. 7.63  
 C.B. Ft. 7.63  
 Temp. 77  
 Weather Water  
 Temp. 77  
 At Meters 7.63  
 Depth Super Cut 7.63  
 Total 7.63

DRILL No.	OD	ID	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Temp.	Weather
57	26	147.23	7.63	7.63	7.63	77	Water	

DRILL No. 7  
 COLLARS 26  
 Length 147.23  
 Air Wt. 7.63  
 Sub. Wt. 7.63  
 C.B. Ft. 7.63  
 Temp. 77  
 Weather Water  
 Temp. 77  
 At Meters 7.63  
 Depth Super Cut 7.63  
 Total 7.63

DRILL No.	OD	ID	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Temp.	Weather
7	26	147.23	7.63	7.63	7.63	77	Water	

TOTAL

CUSTOMER'S COPY

DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5	7	2 1/2	1 1/2	147	23	7.63		79	
Beamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
		1	200	52					
O. Flow		SURVEYS		At Feet		Degrees			
		4		5					
Weather		Water		Temp.		Bois			
Type		Cut		At Miles		Date		Next Slip	
								Ft. Left on Spool	

DRILLER'S SIGNATURE

1/4  
3/4  
6  
1

DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5	7	2 1/2	1 1/2	147	23	7.63		79	
Beamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
		1	200	52					
O. Flow		SURVEYS		At Feet		Degrees			
		4		5					
Weather		Water		Temp.		Bois			
Type		Cut		At Miles		Date		Next Slip	
								Ft. Left on Spool	

DRILLER'S SIGNATURE

1/4  
3/4  
6  
1

DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5	7	2 1/2	1 1/2	147	23	7.63		79	
Beamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
		1	200	52					
O. Flow		SURVEYS		At Feet		Degrees			
		4		5					
Weather		Water		Temp.		Bois			
Type		Cut		At Miles		Date		Next Slip	
								Ft. Left on Spool	

DRILLER'S SIGNATURE

1/4  
3/4  
6  
1

TOTAL	10	10	10	10	10	10	10	10
-------	----	----	----	----	----	----	----	----

DRILLER'S SIGNATURE

CUSTOMER'S COPY

COLLARS

Drill No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. H.	Pressure	Temp.	Weather	Water

Drill No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. H.	Pressure	Temp.	Weather	Water

Drill No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. H.	Pressure	Temp.	Weather	Water

CUSTOMER'S COP

Drill No.	Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	ft up on Kelly	
7	7									
Drill Date	Run	Reamed	Mrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	L.	G.
				1	450					
8 a.m.	12 m.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	12 p.m.	Next Oil Change		
O. Flow	O. Flow	SURVEYS		At Feet	Diagram					
Temp.	Temp.	Weather		Water						
At Miles	Feet	Feet	Cut	At Miles	Date	Next	Next	ft up on Kelly		

DRILLER'S SIGNATURE

Drill No.	Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	ft up on Kelly	
7	7									
Drill Date	Run	Reamed	Mrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	L.	G.
				1	450					
8 a.m.	10 a.m.	12 noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Next Oil Change		
O. Flow	O. Flow	SURVEYS		At Feet	Diagram					
Temp.	Temp.	Weather		Water						
At Miles	Feet	Feet	Cut	At Miles	Date	Next	Next	ft up on Kelly		

DRILLER'S SIGNATURE

Drill No.	Collars	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	ft up on Kelly	
7	7									
Drill Date	Run	Reamed	Mrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	L.	G.
				1	450					
8 a.m.	10 a.m.	12 noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Next Oil Change		
O. Flow	O. Flow	SURVEYS		At Feet	Diagram					
Temp.	Temp.	Weather		Water						
At Miles	Feet	Feet	Cut	At Miles	Date	Next	Next	ft up on Kelly		

DRILLER'S SIGNATURE

TOTAL \_\_\_\_\_  
 CEMENT \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CUSTOMER'S COP

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO

LOCATION

*W. J. Kelly Drilling #155*

SEC

TWP

MAILING POINT

SHIPPING POINT

M.L.S. MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly									
5395	8	5403	1 1/2	140	472	16		21	7	7 1/8	619	135	5-9	232	70									
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
32	8 3/4	R615	Out	55941	22	58	8	1 1/2	65	4	1	450	68											
M.U.D.		12 m.	2 a.m.	4 a.m.	6 a.m.	P.U.M.P.		12 m.	2 a.m.	4 a.m.	6 a.m.	P.U.M.P.		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change					
WEIGHT	Aerated				No. 1	PRES. SURE	425	450	450	No. 2	PRES. SURE			1	2			240						
VISCOSITY					MODEL	L.V.W.	68	68	68	MODEL	L.V.W.			2										
GEL	water				MODEL	L.V.W.	500	5 1/2	16	MODEL	L.V.W.			3										
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees					4							
ADDITIVES:																GENERAL: <i>Changed oil in all 6M Miel</i>				5				
Drilling Line Record																Temp.	Weather	Water	Bbls.					
5403	52	5454	6 3/4	142 1/2	415	567		21	7	7 1/8	619	935	7 1/2	212	21									
32	8 3/4	R613	Open	55941	22	55	60	8 1/4			1	425	68											
M.U.D.		8 a.m.	10 a.m.	12 noon	2 p.m.	P.U.M.P.		8 a.m.	10 a.m.	12 noon	2 p.m.	P.U.M.P.		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change					
WEIGHT	Aerated water				No. 1	PRES. SURE	425	425	450	450	No. 2	PRES. SURE			1	10			240					
VISCOSITY					MODEL	L.V.W.	68	68	68	MODEL	L.V.W.			2										
GEL					MODEL	L.V.W.	500	5 1/2	16	MODEL	L.V.W.			3										
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees					4							
ADDITIVES:																GENERAL: <i>Change oil in liquid plant</i>				5	2			240
Drilling Line Record																Temp.	Weather	Water	Bbls.					
5454	62	5516	8	142	471	35		21	7	7 1/8	619	125	5	212	-									
32	8 3/4	R614	Open	55941	22	58	122	16 1/4			1	450	68		16 U 14									
M.U.D.		4 p.m.	6 p.m.	8 p.m.	10 p.m.	P.U.M.P.		4 p.m.	6 p.m.	8 p.m.	10 p.m.	P.U.M.P.		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change					
WEIGHT	Aerated				No. 1	PRES. SURE	450	450	450	450	No. 2	PRES. SURE			1	18			240					
VISCOSITY					MODEL	L.V.W.	68	68	68	68	MODEL	L.V.W.			2									
GEL	Mud				MODEL	L.V.W.	500	5 1/2	16	MODEL	L.V.W.			3										
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees					4							
ADDITIVES:																GENERAL:				5	10			
Drilling Line Record																Temp.	Weather	Water	Bbls.					

*Handwritten notes and signatures in the right margin, including 'Kelly', 'Miel', and 'liquid plant'.*

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & mat. Chk d	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT				RAN	ITS	CSG	REN
Hydriil					Rig Savers Chk d	Fuel Rec d Today (add)	gals.								
Pipe Rams					Kelly Cock Chk d	TOTAL	gals.					TO	KB USED	SAX	CEM
Blind Rams					Fine Lead Chk d	Fuel on Hand 11.59 p.m. (today's)	gals.	PLUS				PLUG DOWN	A.M.P.M.	DAYS	
TOTCO RING ON BIT #		Boiler Operated	Hrs	FUEL USED		gals.	CEMENT RETURNS (YES/NO)				EQUIPMENT CHANGES				

LOCATION Mid at Husky Blackfly #155 SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE Mar 2/70

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILLS MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles 2	DRILL COLLARS	No. 21	O.D. 7	I.D. 2 1/8	Length 619.21	Air Wt. 935	Sub. Wt. 5-9	C.B. Ft. 51.8	Ft. up on Kelly 2132	70
Drilled Core 8	Hrs. 1 1/2	Reamed 65	Hrs. 4	Pump No. 1	Pump Pressure 450	S.P.M. 68	Table Torque	T. Keen	B.	G.
a.m.	6 a.m.	PUMP	12 noon	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change	
50	450	No. 2	PRE-SURE				1	2	240	
53	68	MODEL	S.P.M.				2			
6		LINER SIZE	5 1/2	12			3			

U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4	
in all 6M Mod				5392		10		Weather		Water	
Temp.										Bbls.	
at Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip	
										Ft. Left on Spool	

REMARKS			TIME		
START	STOP	INTVL			
12:00	1:00	1			
1:00	1:15	1/4			
1:15	2:00	3/4			
2:00	2:45	3/4			
2:45	6:10	3 1/2			
6:00	7:10	1			
7:00	7:30	1/2			
7:00	8:00	1/2			

Singles 1	DRILL COLLARS	No. 21	O.D. 7	I.D. 2 1/8	Length 619.2	Air Wt. 935	Sub. Wt. 5-9	C.B. Ft. 51.8	Ft. up on Kelly 2132	21
Drilled Core 60	Hrs. 8 1/4	Reamed	Hrs.	Pump No. 1	Pump Pressure 425	S.P.M. 68	Table Torque	T. Running	B.	G.
noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change	
450	450	No. 2	PRE-SURE				1	10	240	
68	68	MODEL	S.P.M.				2			
		LINER SIZE	5 1/2	12			3			

U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4	
in leg plant				5454		1		5		2	
Temp.										Bbls.	
at Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip	
										Ft. Left on Spool	

REMARKS			TIME		
START	STOP	INTVL			
8:00	12:45	4 3/4			
12:45	1:30	4/4			
1:30	3:00	2			
3:30	4:10	4/2			

Singles 2	DRILL COLLARS	No. 21	O.D. 7	I.D. 2 1/8	Length 619.2	Air Wt. 935	Sub. Wt. 5-9	C.B. Ft. 51.8	Ft. up on Kelly 2132	-
Drilled Core 122	Hrs. 16 1/4	Reamed	Hrs.	Pump No. 1	Pump Pressure 450	S.P.M. 68	Table Torque	T. RUN	B.	G.
a.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 a.m.	MOTOR HOURS		Next Oil Change	
450	450	No. 2	PRE-SURE				1	18	240	
68	68	MODEL	S.P.M.				2			
16		LINER SIZE	5 1/2	12			3			

U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4	
				10						5	
Temp.										Bbls.	
at Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip	
										Ft. Left on Spool	

REMARKS			TIME		
START	STOP	INTVL			
4:00	13:10	8			

Fuel on Hand 12:01 a.m.	gals	CASING-REPORT		RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals							
TOTAL	gals			TO	KB USED	SAX	CEM	
Fuel on Hand 11:59 p.m. (deduct)	gals			PLUS	PLUG DOWN	A.M.	DAYS FROM SPUD:	TOTAL COMPANY TIME HRS.
FUEL USED	gals	CEMENT RETURNS (YES/NO)		EQUIPMENT CHANGES				TOTAL CONTRACTOR'S TIME HRS.
								Approved by Operator's Representative
								Approved by Toolpusher

COM 42660



**COMMONWEALTH DRILLING**

**DAILY DRILLING LOG**  
DIRECTIONS TO WELL

RIG NO. \_\_\_\_\_ LOCAL \_\_\_\_\_ LSD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_  
MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	5339	31	5370	7	142	4692	10		21	7	2 7/8	611-3	13	626	1521	13		
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	30	2 3/4	R77	Open	3767	1548	70	34	7 1/2			1	450	65		2	2	1

M.U.D.	12 m	2 a	4 a	6 a	PUMP	12 m	2 a	4 a	6 a	PUMP	12 m	2 a	4 a	6 a	MOTOR HOURS	Next Oil Change			
WEIGHT	Sterated				No. 1 PRE-SURE	400	450	450	450	No. 2 PRE-SURE					1	234	240		
VISCOSITY	Water				MODEL	54	68	68	68	MODEL					2				
GEL					500	5 1/2 x 16				120	5 1/2 x 12				3				
W.L.	F.C.				DESILTER: Hours Op:	U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		Weather		Water	
ADDITIVES:	Balgors 50# Hagheat 50#				GENERAL:														
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	Bbls. <i>fuel 7</i>					

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	5370	14	5384	2 1/4	140M	4060	68		21	7	2 7/8	611-3	13	265	1502			
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	31	6 7/8	Chust.		2006	7	65	14	2 1/2			1	825	30	Running			

M.U.D.	8 a	10 a	12 noon	2 p	PUMP	8 a	10 a	12 noon	2 p	PUMP	8 a	10 a	12 noon	2 p	MOTOR HOURS	Next Oil Change			
WEIGHT	Sterated				No. 1 PRE-SURE	800				800	No. 2 PRE-SURE	2000				1	202	240	
VISCOSITY	Water				MODEL	30				30	MODEL					2			
GEL					500	5 1/2 x 16				5 1/2 x 12					3				
W.L.	F.C.				DESILTER: Hours Op:	U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		Weather		Water	
ADDITIVES:					GENERAL:														
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	Bbls. <i>fuel 7</i>					

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	5384	11	5395	3 1/2	469	210			21	7	2 7/8	611-3	13	365	1502			
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	31	6 7/8	Chust.		2006	7	65	25	6 1/2			1	800	30				

M.U.D.	4 p	6 p	8 p	10 p	PUMP	4 p	6 p	8 p	10 p	PUMP	4 p	6 p	8 p	10 p	MOTOR HOURS	Next Oil Change			
WEIGHT	Sterated				No. 1 PRE-SURE	500				No. 2 PRE-SURE	2000				1	250	240		
VISCOSITY	Water				MODEL	30				MODEL					2				
GEL					500	5 1/2 x 16				5 1/2 x 12					3				
W.L.	F.C.				DESILTER: Hours Op:	U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		Weather		Water	
ADDITIVES:					GENERAL:														
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	Bbls. <i>fuel 7</i>					

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or mat. Chk d	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG	RENTA
Hydril					Rig Savers Chk d	Fuel Rec'd Today (add)	gals.	TOTAL		TO	KB USED	SAY	CEM
Pipe Rams					Kelly Cook Chk d	Fuel on Hand 11 59 p.m. (dross)	gals.	PLUS		PLUG DOWN	A.M. P.M.	DAYS F	
Blind Rams					Fire Equip Chk d	FUEL USED	gals.	CEMENT RETURNS (YES-NO)		EQUIPMENT CHANGES			

CONSERVATION BOARD COPY

LOCAL \_\_\_\_\_ LSD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE March 1 1970

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	<b>DRILL COLLARS</b>	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
10		21	7	2 7/8	617-2	13	626	15-1	13	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	7 1/2			1	450	68		2		1

4 a.m.	6 a.m.	<b>PUMP</b>	12 m.n.	2 a.m.	4 a.m.	6 a.m.	<b>MOTOR HOURS</b>	Next Oil Change
4:00	4:00	No. 2					1	234
68	65	MODEL	S.P.M.				2	
16		LINER SIZE	5 1/2	12			3	

U. Flow: \_\_\_\_\_ O. Flow: \_\_\_\_\_ SURVEYS

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

Singles	<b>DRILL COLLARS</b>	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
68		21	7	2 7/8	617-3		365	1502		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
14	2 1/2			1	825	30	Running			

12 noon	2 p.m.	<b>PUMP</b>	8 a.m.	10 a.m.	12 noon	2 p.m.	<b>MOTOR HOURS</b>	Next Oil Change
800	800	No. 2					1	242
30	30	MODEL	S.P.M.	2400			2	
16		LINER SIZE	5 1/2	12			3	

U. Flow: \_\_\_\_\_ O. Flow: \_\_\_\_\_ SURVEYS

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

Singles	<b>DRILL COLLARS</b>	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
210		21	7	2 7/8	611-21		365		25	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
25	6 1/2			1	800	30				

8 a.m.	10 p.m.	<b>PUMP</b>	4 p.m.	6 a.m.	8 p.m.	10 a.m.	<b>MOTOR HOURS</b>	Next Oil Change
		No. 2					1	250
		MODEL	S.P.M.	2400			2	
		LINER SIZE	5 1/2	12			3	

U. Flow: \_\_\_\_\_ O. Flow: \_\_\_\_\_ SURVEYS

REMARKS

Drilling of base sample

7:00 7:00 7

7:00 8:00 1

Fuel 7:00

FIRES

DRILLER'S SIGNATURE

Full cut at 1:30

up pipe & land ran

back up & run 1/2

run down & stabilize

run up to 1:00

low to deep - 6 ft

cut wire 7:05

FIRES

DRILLER'S SIGNATURE

cut wire 1:5

Break wire 1:5

run down & stabilize

run up to 1:00

run down to 3:2

FIRES

DRILLER'S SIGNATURE

Fuel on Hand 12:01 a.m.	gals.	<b>CASING REPORT</b>	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.						
<b>TOTAL</b>	gals.	TO	KB USED	SAY	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD:	TOTAL COMPANY TIME HRS.
<b>FUEL USED</b>	gals.	CEMENT RETURNS (YES-NO)				EQUIPMENT CHANGES	TOTAL CONTRACTOR'S TIME HRS.

Approved by Operator's Representative

Approved by Toolpusher

COM 42658

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22

LOCATION 16106 N. Hwy 145 SEC 15 TWP 14 RGE 14

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5276	30	5306	1 1/2	1400	4660	68	21	7	2 1/4	6 1/2	125	626	1551	14			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
29	8 3/4	MSS	Open	RR26	15	75	267	5 1/2			1	400	57				
MUD			12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change		
WEIGHT			1400		400	400	400	400	No. 2		PRES. SURE		1	210	240		
VISCOSITY			water		MODEL		S.P.M.	57	57	57	MODEL		S.P.M.	2			
GEL			500		LINER SIZE		5 1/2	16	1.0		LINER SIZE		3	5 1/2		12	
W.L.			F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:		SURVEYS		At Feet	Degrees	4		5	
ADDITIVES:			Galson 50#		GENERAL:		Nagahat-50#		Weather		Temp.		Water		Bbls.		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

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From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLA	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5306	27	5333	1 1/2	1400	4660	68	21	7	2 1/4	6 1/2	125	626	1551	17			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
29	8 3/4	MSS	Open	RR26	15-18	70	294	59			1	400	57				
MUD			8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change		
WEIGHT			1400		400	400	400	400	No. 2		PRES. SURE		1	218	240		
VISCOSITY			water		MODEL		S.P.M.	57	57	38	MODEL		S.P.M.	2			
GEL			500		LINER SIZE		5 1/2	16	1.0		LINER SIZE		3	5 1/2		12	
W.L.			F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:		SURVEYS		At Feet	Degrees	4		5	
ADDITIVES:			Galson 50#		GENERAL:		Nagahat-50#		Weather		Temp.		Water		Bbls.		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

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From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5333	6	5339	1 1/2	1400	4660	68	21	7	2 1/4	6 1/2	125	626	1551	13			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
29	8 3/4	MSS	Open	RR26	15-18	70		60			1	500	28				
30	8 3/4	MSS	Open	2969	15-18	70		3 1/2									
MUD			4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change		
WEIGHT			1400		500	PRES. SURE		500	No. 2		PRES. SURE		1	226	240		
VISCOSITY			water		MODEL		S.P.M.	28	42	MODEL		S.P.M.	2				
GEL			500		LINER SIZE		5 1/2	16	1.0		LINER SIZE		3	5 1/2		12	
W.L.			F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:		SURVEYS		At Feet	Degrees	4		5	
ADDITIVES:			Galson 50#		GENERAL:		Nagahat-50#		Weather		Temp.		Water		Bbls.		
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

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B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown o matic Chk d	Fuel on Hand 12 01 a.m	gals	CASING REPORT	RAN	ITS	CSG	REN'TAL
Hydril						Fuel Rec d Today (total)		TOTAL	TO	KB USED	SAX	CEW
Pipe Rams						Fuel on Hand 11 59 p.m. (deduct)		FUEL USED		PLUG DOWN	A M P M	DAYS FROM
Blind Rams												
TOTCO RING ON BIT #												
Cement Returns			YES-NO		EQUIPMENT CHANGES							

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LOCATION 6606 at Husky Bluefly 1155 SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE Feb 28/70

Mailing Point		Shipping Point		Miles Moved		Road Conditions		Days from Spud		
Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
267	57	21	7	2 1/8	6192	125	626	1551	14	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
267	57			1	400	57		RUN		
4 a.m.	6 a.m.	P.U.M.P.		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
400	400	No. 2	PRES. SURE					1	210	240
57	57	MODEL	S.P.M.					2		
16		1.50	LINER SIZE	5 1/2	12			3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				5						
				Weather		Water				
				Temp.		Bbbs.				
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool				

REMARKS	TIME		
	START	STOP	INVT
Drilling	12:00	3:15	3 1/2
Big surge in HOPS	3:15	3:30	1/4
Drilling	3:30	5:00	4 1/2
Feb 6' 5'			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
68	59	21	7	2 1/8	6192	935	626	1551	17	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
294	59			1	400	57		Running		
12 noon	2 p.m.	P.U.M.P.		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
400	400	No. 2	PRES. SURE					1	218	240
57	38	MODEL	S.P.M.					2		
16		1.50	LINER SIZE	5 1/2	12			3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4		5320		10		
				5						
				Weather		Water				
				Temp.		Bbbs.				
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool				

REMARKS	TIME		
	START	STOP	INVT
Drilling	8:00	12:45	4 1/2
Surge in HOPS	12:45	1:15	1/2
Drilling	1:15	4:01	2 1/2
Feb 10' 11'			

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
68	60	21	7	2 1/8	6192	335	626	1551	13	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
60	36			1	500	28		4	5	18
8 p.m.	10 p.m.	P.U.M.P.		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
400	400	No. 2	PRES. SURE					1	226	240
54		MODEL	S.P.M.					2		
16		1.50	LINER SIZE	5 1/2	12			3		
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				5						
				Weather		Water				
				Temp.		Bbbs.				
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool				

REMARKS	TIME		
	START	STOP	INVT
Drilling	4:00	5:00	1
up to 21 29	5:00	7:10	2
Big surge in HOPS	7:00	7:15	1/4
15' delay line	7:15	7:30	1/4
up to 30	7:30	9:10	1 1/2
Plan 80' surge pump hole	7:00	11:15	2 1/2
Drilling	11:15	12:00	3/4
up to 21			
delay 4' 6" 6 1/2			
1 3/4			

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT		RENTAL EQUIPMENT ON HAND		TRANSFER #
Fuel Rec'd Today (add)	gals.	RAN	JTS	CSG		
TOTAL	gals.	TO	KB USED	SAX	CEH	
Fuel on Hand 11 59 p.m. (deduct)	gals.	F JS	PLUG DOWN	A.M. P.M.	DAYS FROM SPUD:	TOTAL COMPANY TIME HRS
FUEL USED	gals.	CEMENT RETURNS (YES/NO)		EQUIPMENT CHANGES		TOTAL CONTRACTOR'S TIME HRS.
Approved by Operator's Representative Approved by Toolpusher						

COM 42659

**COMMONWEALTH DRILLING**  
**DAILY DRILLING LOG**  
**DIRECTIONS TO WELL**

RIG NO *22* LOCATION *Job # of the day #11/1/55*

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly																																																																																																																																							
5164		5208	7 1/2	140	4136	27		21	7	2 1/2	6112	1.6	626	11.5	11																																																																																																																																							
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																																																																																																																																					
29	5 3/4	M88	Open	RK26	2536	58	169	28			1	450	68																																																																																																																																									
<table border="1"> <tr> <td>MUD</td> <td>12 m</td> <td>2 a.m.</td> <td>4 a.m.</td> <td>6 a.m.</td> <td>PUMP</td> <td>12 m</td> <td>2 a.m.</td> <td>4 a.m.</td> <td>6 a.m.</td> <td>PUMP</td> <td>12 m</td> <td>2 a.m.</td> <td>4 a.m.</td> <td>6 a.m.</td> <td>MOTOR HOURS</td> <td>Next Oil Change</td> </tr> <tr> <td>WEIGHT</td> <td colspan="4">Aerated</td> <td>No. 1</td> <td>PREL. SURE</td> <td>450</td> <td>450</td> <td>450</td> <td>No. 2</td> <td>PREL. SURE</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>VISCOSITY</td> <td colspan="4">Water</td> <td>MODEL</td> <td>S.P.M.</td> <td>65</td> <td>65</td> <td>65</td> <td>MODEL</td> <td>S.P.M.</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>GEL</td> <td colspan="4"></td> <td>LINER SIZE</td> <td></td> <td>5 1/2</td> <td>16</td> <td></td> <td>LINER SIZE</td> <td></td> <td>5 1/2</td> <td>16</td> <td></td> <td>3</td> <td></td> </tr> <tr> <td>W.L.</td> <td>F.C.</td> <td colspan="2">pH.</td> <td>DESILTER: Hours Op:</td> <td colspan="4">U. Flow</td> <td colspan="4">O. Flow</td> <td colspan="2">SURVEYS</td> <td>4</td> <td></td> </tr> <tr> <td colspan="12">ADDITIVES: <i>Galgon 50#</i></td> <td colspan="4">GENERAL:</td> <td colspan="2">5015</td> <td>9</td> <td></td> </tr> <tr> <td colspan="16"> <table border="1"> <tr> <td>Drilling Line Record</td> <td>Size</td> <td>Make</td> <td>Serial No.</td> <td>No. Lines</td> <td>Trips</td> <td>Ton Miles</td> <td>Total Miles</td> <td>Slip</td> <td>Feet or Cut</td> <td>At Miles</td> <td>Date Slip or Cut</td> <td>Next Slip</td> <td>Ft. Left on Spool</td> </tr> </table> </td> </tr> </table>																MUD	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	WEIGHT	Aerated				No. 1	PREL. SURE	450	450	450	No. 2	PREL. SURE				1		VISCOSITY	Water				MODEL	S.P.M.	65	65	65	MODEL	S.P.M.				2		GEL					LINER SIZE		5 1/2	16		LINER SIZE		5 1/2	16		3		W.L.	F.C.	pH.		DESILTER: Hours Op:	U. Flow				O. Flow				SURVEYS		4		ADDITIVES: <i>Galgon 50#</i>												GENERAL:				5015		9		<table border="1"> <tr> <td>Drilling Line Record</td> <td>Size</td> <td>Make</td> <td>Serial No.</td> <td>No. Lines</td> <td>Trips</td> <td>Ton Miles</td> <td>Total Miles</td> <td>Slip</td> <td>Feet or Cut</td> <td>At Miles</td> <td>Date Slip or Cut</td> <td>Next Slip</td> <td>Ft. Left on Spool</td> </tr> </table>																Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
MUD	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change																																																																																																																																						
WEIGHT	Aerated				No. 1	PREL. SURE	450	450	450	No. 2	PREL. SURE				1																																																																																																																																							
VISCOSITY	Water				MODEL	S.P.M.	65	65	65	MODEL	S.P.M.				2																																																																																																																																							
GEL					LINER SIZE		5 1/2	16		LINER SIZE		5 1/2	16		3																																																																																																																																							
W.L.	F.C.	pH.		DESILTER: Hours Op:	U. Flow				O. Flow				SURVEYS		4																																																																																																																																							
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*Running*

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly																																																																																																																																										
5208	4	5255	5	140M	49	771		21	7	2 1/2	6112	1.6	626	15.1	4																																																																																																																																										
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																																																																																																																																								
29	5 3/4	M88	Open	RK26	26	56	216	36			1	450	68																																																																																																																																												
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*Running*

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*Running*

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inpected Date	Crown & mand. Chkd	Fuel on Hand 12:01 a.m.	gals	CASING REPORT				RAN	ATS	CSG	REN
Hydril					Rig Savers Chkd	Fuel Rec'd Today (add)	gals								
Pipe Rams					Kelly Cook Chkd	TOTAL	gals					TO	KB USED	SAY	CEW
Blind Rams					Fuel on Hand 11:59 p.m. (add)		gals					PLUS	PLUG DOWN	A.M.	P.M.
TOTCO RING ON BIT		Boiler Operated	His	Fire Equip Chkd	FUEL USED		gals					CEMENT RETURNS	YES	NO	EQUIPMENT CHANGES



**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22

LOCATION *Rocky Mount Hwy N55*

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR	MIDNIGHT	B	No.	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft up on Kelly	G.	
																				Size
8	A	M	5039	29	5068	6 1/4	135		38		21	7	2 1/2	617.4	100	626			1	
			29	8 1/2	1788	OPEN	25021	25	38	29	6 1/2		1	400	68					
		M U D		12 mn	2 a.m.	4 a.m.	6 a.m.	P U M P		12 mn	2 a.m.	4 a.m.	6 a.m.	M O T O R H O U R S		Next Oil Change				
		W E I G H T		12 mn		2 a.m.		4 a.m.		6 a.m.		M O T O R H O U R S		Next Oil Change						
		V I S C O S I T Y		12 mn		2 a.m.		4 a.m.		6 a.m.		M O T O R H O U R S		Next Oil Change						
		G E L		12 mn		2 a.m.		4 a.m.		6 a.m.		M O T O R H O U R S		Next Oil Change						
		W. L.		F. C.		pH		DESILTER: Hours Op.		U. Flow		O. Flow		S U R V E Y S		At Feet		Degrees		
		A D D I T I V E S		G E N E R A L																
		D r i l l i n g L i n e R e c o r d		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	F I R E S			
8	A	M	5068	36	5104	7 1/2	138		4		21	7	2 1/2	617.4	95	226	15.9	29		
			29	8 1/2	1788	OPEN	RR26	25	50	69	13 1/2		1	400	64					
		M U D		8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P		8 a.m.	10 a.m.	12 noon	2 p.m.	M O T O R H O U R S		Next Oil Change				
		W E I G H T		8 a.m.		10 a.m.		12 noon		2 p.m.		M O T O R H O U R S		Next Oil Change						
		V I S C O S I T Y		8 a.m.		10 a.m.		12 noon		2 p.m.		M O T O R H O U R S		Next Oil Change						
		G E L		8 a.m.		10 a.m.		12 noon		2 p.m.		M O T O R H O U R S		Next Oil Change						
		W. L.		F. C.		pH		DESILTER: Hours Op.		U. Flow		O. Flow		S U R V E Y S		At Feet		Degrees		
		A D D I T I V E S		G E N E R A L																
		D r i l l i n g L i n e R e c o r d		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	F I R E S			
4	P	M	5104	60	5164	7 1/2	140M	4504	63		21	7	2 1/2	617	21	162				
			29	8 1/2	1788	Open	RR26	26	58	125	21		1	225	66					
		M U D		4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P		4 p.m.	6 p.m.	8 p.m.	10 p.m.	M O T O R H O U R S		Next Oil Change				
		W E I G H T		4 p.m.		6 p.m.		8 p.m.		10 p.m.		M O T O R H O U R S		Next Oil Change						
		V I S C O S I T Y		4 p.m.		6 p.m.		8 p.m.		10 p.m.		M O T O R H O U R S		Next Oil Change						
		G E L		4 p.m.		6 p.m.		8 p.m.		10 p.m.		M O T O R H O U R S		Next Oil Change						
		W. L.		F. C.		pH		DESILTER: Hours Op.		U. Flow		O. Flow		S U R V E Y S		At Feet		Degrees		
		A D D I T I V E S		G E N E R A L																
		D r i l l i n g L i n e R e c o r d		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	F I R E S			

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or make Chk'd	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG	RE
Hydril					Ric Savers Chk'd	Fuel Rec'd Today (add)	gals.	10	KB USED	SAX	CEM		
Pip Rams					Kelly Cock Chk'd	TOTAL	gals.						
Blind Rams					Fuel on Hand 11:59 p.m. (subtract)		gals.	PLUS	PLUG-DOWN	A.M.	P.M.	DAY	
TOTCO RING ON BIT #		Boiler Operated	Hrs.	Fire Equip Chk'd	FUEL USED		gals.	CEMENT RETURNS		YES NO		EQUIPMENT CHANGE	

CONSERVATION BOARD COPY

LOCATION *26 1/2 mi N of Rocky Mountain N 55° E* SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE *7/26/70*

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
38		21	7	2 1/2	619.4	135	626	51	21	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
29	6 1/2			1	400	68				

6 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
4:00	4:00	No. 2					1 160	340
6:00	6:00	MODEL					2	
8:00	8:00	LINER SIZE					3	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees
				4				
				5				
Weather				Water				
Temp.				Bbls.				

Total Miles \_\_\_\_\_ Slip \_\_\_\_\_ Feet or Cut \_\_\_\_\_ At Miles \_\_\_\_\_ Date Slip or Cut \_\_\_\_\_ Next Slip \_\_\_\_\_ Ft. Left on Spool \_\_\_\_\_

REMARKS	TIME		
	START	STOP	INTVL
<i>Big service 1400's</i>	<i>12:11</i>	<i>1:01</i>	<i>1/2</i>
<i>Running</i>	<i>12:15</i>	<i>1:01</i>	<i>1/2</i>
<i>1400's</i>	<i>1:01</i>	<i>1:41</i>	<i>1/2</i>
<i>1400's</i>	<i>1:41</i>	<i>2:21</i>	<i>1/2</i>

FIRES \_\_\_\_\_ DRILLER'S SIGNATURE \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		21	7	2 1/2	619.2	95	626	15.51	29	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	13 1/2			1	400	64				

2 noon	6 a.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
4:00	4:00	No. 2					1 168	240
6:00	6:00	MODEL					2	
8:00	8:00	LINER SIZE					3	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees
				4				
				5				
Weather				Water				
Temp.				Bbls.				

Total Miles \_\_\_\_\_ Slip \_\_\_\_\_ Feet or Cut \_\_\_\_\_ At Miles \_\_\_\_\_ Date Slip or Cut \_\_\_\_\_ Next Slip \_\_\_\_\_ Ft. Left on Spool \_\_\_\_\_

REMARKS	TIME		
	START	STOP	INTVL
<i>Drilling</i>	<i>12:11</i>	<i>1:01</i>	<i>1/2</i>
<i>1400's</i>	<i>1:01</i>	<i>1:41</i>	<i>1/2</i>
<i>Running</i>	<i>1:41</i>	<i>2:21</i>	<i>1/2</i>
<i>1400's</i>	<i>2:21</i>	<i>3:01</i>	<i>1/2</i>

FIRES \_\_\_\_\_ DRILLER'S SIGNATURE \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
63		21	7	2 1/2	617	21	435		5107	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
125	21			1	425	66				

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
4:00	4:00	No. 2					1 176	240
6:00	6:00	MODEL					2	
8:00	8:00	LINER SIZE					3	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees
				4				
				5				
Weather				Water				
Temp.				Bbls.				

Total Miles \_\_\_\_\_ Slip \_\_\_\_\_ Feet or Cut \_\_\_\_\_ At Miles \_\_\_\_\_ Date Slip or Cut \_\_\_\_\_ Next Slip \_\_\_\_\_ Ft. Left on Spool \_\_\_\_\_

REMARKS	TIME		
	START	STOP	INTVL
<i>Drilling</i>	<i>4:11</i>	<i>7:41</i>	<i>3 1/2</i>
<i>513' H. 1400's</i>	<i>7:41</i>	<i>8:21</i>	<i>1/2</i>
<i>Running</i>	<i>8:21</i>	<i>12:11</i>	<i>3 3/4</i>

FIRES \_\_\_\_\_ DRILLER'S SIGNATURE \_\_\_\_\_

Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals						
TOTAL	gals	TO	KB USED	SAX	CEM		
Fuel on Hand 11 59 a.m. (deduct)	gals	PLUS	PLUG DOWN	A M P M	DAYS FROM SPUD:	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	gals	CEMENT RETURNS (YES NO)				HRS	HRS

Approved by Operator's Representative \_\_\_\_\_  
Approved by Toolpusher \_\_\_\_\_

COM 42657



**COMMONWEALTH DRILLING**  
**DAILY DRILLING LOG**  
 DIRECTIONS TO WELL

RIG NO. *22* LOCATION *Ind. Property No Kelly MS5*

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
4156	29'	4155	6 1/2	1384	4 1/2	1755	21	7	2 1/8	87.1			426	1551	4233

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
28	5 3/4	X55K	Open	RK25	36.5	58	39	6 1/2	36'	1 1/2	1	400	68				

M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	<i>Aerated</i>				No. 1	PRES. SURE	400	400	400	No. 2	PRES. SURE	400	400	400	1	136	240

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	SURVEYS	At Feet	Degrees
						4		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
4485	28	5013	7 1/2	138	4 1/2	90	21	7	2 1/8	61 1/2	75	151	626	26	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
28	5 3/4	X55K		RK25	35	58	57	17 1/2			1	400	68				

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	<i>Aerated</i>				No. 1	PRES. SURE	400	400	400	400	No. 2	PRES. SURE	400	400	1	144	240

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	SURVEYS	At Feet	Degrees
						4		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
5013	26'	5039		136	4 1/2	90	21	7	2 1/8	14 1/2			626	27	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
28	5 3/4	X55K	Open	RK45	35	58	83	17 1/2			1	400	68	7	7	8	1

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	<i>Aerated</i>				No. 1	PRES. SURE	400	400	400	400	No. 2	PRES. SURE	400	400	1		

W.L.	F.C.	pH.	DESILTER: Hours Op:	U. Flow	O. Flow	SURVEYS	At Feet	Degrees
						4		

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet Slip or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & Motor Chkd	Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	JTS	CSG	REIN TA
Hydril					Rig Savers Chkd	Fuel Rec'd Today (add)	gals					
Pipe Rams					Kelly Cock Chkd	TOTAL	gals	10	KB USED	SAX	CEM	
Blind Rams					Fuel on Hand 11 59 a.m. (deduct)	FUEL USED	gals	PLS	PLUG DOWN	A.M	P.M	DAYS FR
TOTCO RING ON BIT			Barter Operated	Hrs.	Firm Favor Chkd			CEMENT RETURNS	YES NO			EQUIPMENT CHANGES

LOCATION *106 Husky Stackfly 455* LSD SEC TWP RGE W DATE *7.6.25/90*

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
55		21		7	2 7/8	67.21		626	1551	2333			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
39	6 1/2	36	1 1/2	1	400	65							
PUMP				12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change			
400				400		No. 2		PRES SURE		1	136	240	
63				63		MODEL		S.P.M.		2			
1/2 x 16				150		LINER SIZE				3			
U. Flow				O. Flow				SURVEYS		4			
								At Feet		Degrees		5	
								Weather		Water			
								Temp.		Bbls.			
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS			TIME		
<i>106 Husky Stackfly 455</i>			START	STOP	INVL
<i>106 Husky Stackfly 455</i>			12:15	1:15	1 1/2
<i>106 Husky Stackfly 455</i>			12:15	1:30	1 1/2
<i>106 Husky Stackfly 455</i>			1:30	8:00	6 1/2

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
80		21		7	2 7/8	61.21		755	1551	626	26		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
37	17 1/2			1	400	68							
PUMP				8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change			
400				400		No. 2		PRES SURE		1	144	240	
63				63		MODEL		S.P.M.		2			
1/2 x 16				150		LINER SIZE				3			
U. Flow				O. Flow				SURVEYS		4			
								At Feet		Degrees		5	
								Weather		Water			
								Temp.		Bbls.			
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS			TIME		
<i>106 Husky Stackfly 455</i>			START	STOP	INVL
<i>106 Husky Stackfly 455</i>			8:10	8:15	1/2
<i>106 Husky Stackfly 455</i>			8:15	8:30	1/2
<i>106 Husky Stackfly 455</i>			8:30	2:05	6 1/2

Singles		DRILL COLLARS		No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
80		21		7	2 7/8	61.21		755	1551	626	57		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
83	17 1/2			1	400	68		7	8	1			
PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change			
400				400		No. 2		PRES SURE		1			
63				63		MODEL		S.P.M.		2			
1/2 x 16				150		LINER SIZE				3			
U. Flow				O. Flow				SURVEYS		4			
								At Feet		Degrees		5	
								Weather		Water			
								Temp.		Bbls.			
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS			TIME		
<i>106 Husky Stackfly 455</i>			START	STOP	INVL
<i>106 Husky Stackfly 455</i>			4:00	4:15	1/2
<i>106 Husky Stackfly 455</i>			4:30	4:45	1/2
<i>106 Husky Stackfly 455</i>			7:45	12:10	4 1/2

Fuel on Hand 12.01 a.m.		gals.		CASING REPORT		RAN		JTS		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER #	
Fuel Rec'd Today (add)		gals.		TOTAL		TO		KB. USED		SAX		CEM			
Fuel on Hand 11.59 p.m. (deduct)		gals.		PLUS		PLUG DOWN		A.M. P.M.		DAYS FROM SPUD:		TOTAL COMPANY TIME		TOTAL CONTRACTOR'S TIME	
FUEL USED		gals.		CEMENT RETURNS - (YES-NO)		EQUIPMENT CHANGES						Approved by Operator's Representative		Approved by Toolpusher	

REMARKS			TIME		
<i>106 Husky Stackfly 455</i>			START	STOP	INVL
<i>106 Husky Stackfly 455</i>					
<i>106 Husky Stackfly 455</i>					
<i>106 Husky Stackfly 455</i>					

COM 42654



LOCATION *Mo. at Turkey Block #155* SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE *7/24/70*

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
10	2 3/4	2	7	2 1/8	6192	206	365	3572	
4 a.m.	6 a.m.	PUMP		12 m.m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	
		450	No. 2	PKES SURE				1	112
		68	MODEL	S.P.M.				2	
		150	LINER SIZE					3	
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees	
				4					
				5					
				Weather		Water		Temp.	
								Bbls.	
Total Miles	Feet Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL
<i>Turn on bit</i>	6:00	1:30	1/2
<i>Handle wire</i>	1:30	1:45	1/4
<i>Remove 2 collars</i>	1:45	2:15	1/4
<i>Log down &amp; bit set (und pan)</i>	2:15	2:20	1/4
<i>Remove bit set</i>	2:20	2:30	1/4
<i>Break wire and leave</i>	2:30		
<i>Log 1-9 4931</i>		2:10	1/2
<i>Make up bit set</i>	2:10	2:15	1/4
<i>Set</i>	2:15	2:00	1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
16	5				6192	206	365	3572	3
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	
		450	No. 2	PKES SURE				1	
		68	MODEL	S.P.M.				2	
			LINER SIZE					3	
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees	
				4					
				5					
				Weather		Water		Temp.	
								Bbls.	
Total Miles	Feet Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL
<i>Set bit</i>	7:00	11:15	2 1/4
<i>Set</i>	11:15	12:10	1/4
<i>Log down &amp; bit set</i>		12:15	1/4
<i>Log 30 min</i>	12:15	12:30	1/4
<i>Remove bit set</i>	12:30	2:10	1 1/4
<i>Set</i>	2:10	4:10	2

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
9	4 1/4				6192	206	365	3572	1
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	
			No. 2	PKES SURE				1	128
			MODEL	S.P.M.				2	240
			LINER SIZE					3	
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees	
				4					
				5					
				Weather		Water		Temp.	
								Bbls.	
Total Miles	Feet Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool			

REMARKS	TIME		
	START	STOP	INTVL
<i>Set</i>	4:00	6:15	2 1/4
<i>Log down &amp; bit set</i>	6:15	6:30	1/4
<i>Set</i>	6:30	7:00	1/4
<i>Set</i>	7:00	7:45	1/4
<i>Break down &amp; leave</i>	7:45		
<i>Break up &amp; leave</i>	7:30	11:30	2 1/4
<i>Break wire</i>	11:30	12:00	1/4

FUEL USED	CEMENT RETURNS (YES/NO)	EQUIPMENT CHANGES

FUEL ON HAND 12:01 a.m.	RENAL EQUIPMENT ON HAND	TRANSFER #

APPROVED BY OPERATOR'S REPRESENTATIVE	APPROVED BY TOOLPUSHER
<i>[Signature]</i>	<i>[Signature]</i>

COM 42655

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

FIG. NO. 22 LOCATION 101 Lucky Street W55  
MILING POINT \_\_\_\_\_ SH. FILING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_

TOUR	From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	4929			3 1/2	138M	42	255.92		21	7"	2 1/4"	511 1/2	100	365	237 1/2			
BITS	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	23	8 3/4	SCMS	OPEN	576183	225		27'	5 1/2	120	3 1/2	1	450	68		7	8	0
	24	8 3/4	WD7		19737	500-1000	80			90	3 1/2	1	400	58	Ream			

MUD	12 mn	2 am	4 am	6 am	PUMP	12 mn	2 am	4 am	6 am	PUMP	12 mn	2 am	4 am	6 am	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PREL. SUPT.			100	40	No. 2 PREL. SUPT.			TANKS		1	88	240		
VISCOSITY					MODEL S.P.M.			30	60	MODEL S.P.M.					2				
GEL					LINER SIZE			500	5 1/2 x 16	LINER SIZE			5 1/2 x 12		3				
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES: GENERAL:																Weather		Water	
Calgon x 80 50 lbs.																Temp.		Bbl.	
Nasatural x10 50 lbs.																			
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet or Slip	Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

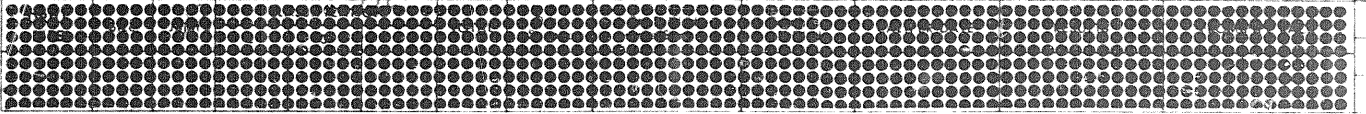
TOUR	From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	4929				138	42	255.92		21	7"	2 1/4"	511 1/2			206	28		
BITS	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	24	8 3/4	WD7	OPEN	19737					210	7 1/4	1	450	68		4	6	1

MUD	8 am	10 am	12 noon	2 p.m.	PUMP	8 am	10 am	12 noon	2 p.m.	PUMP	8 am	10 am	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PREL. SUPT.			450	450	No. 2 PREL. SUPT.					1	96	240		
VISCOSITY	Aerated water				MODEL S.P.M.			65	68	MODEL S.P.M.					2				
GEL					LINER SIZE			500	5 1/2 x 16	LINER SIZE			1 1/4	5 1/2 x 12		3			
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES: GENERAL:																Weather		Water	
																Temp.		Bbl.	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet or Slip	Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

TOUR	From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
	4929			2 1/2	127M				21	7"	2 1/4"	511 1/2			110	65 02		
BITS	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	25	6 3/4	W		EC1027				230			1	800	30				

MUD	4 pm	6 pm	8 pm	10 pm	PUMP	4 pm	6 pm	8 pm	10 pm	PUMP	4 pm	6 pm	8 pm	10 pm	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PREL. SUPT.			500		No. 2 PREL. SUPT.			Jackets		1	104	240		
VISCOSITY					MODEL S.P.M.			30		MODEL S.P.M.					2				
GEL					LINER SIZE			500	5 1/2 x 16	LINER SIZE					3				
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES: GENERAL:																Weather		Water	
																Temp.		Bbl.	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet or Slip	Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

B.O.P.	Tested	Elapsed Time	Pres. sure	Packing & Seal Inspected Date	Crown or matic Chk'd	Fuel on Hand 12 01 a.m.	gals	CASING REPORT				RAN	JTS	CSG	REN
Hydriol					Rig Savers Chk'd	Fuel Rev'd Today (add)	gals	TOTAL				TO	KB USED	SAX	CEM
Pipe Rams					Kelly Cook Chk'd	Fuel on Hand 11 59 p.m. (deduct)	gals	PIJS				PLUG DOWN		A M P M	DAYS
Blind Rams					Fire Equip Chk'd	FUEL USED	gals	CEMENT RETURNS				YES	NO	EQ. RMS. CHANGES	



LOCATION No. 1 at Husky Stackfly #155 LSD \_\_\_\_\_ SE \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE 7/20/76

MAPPING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITION \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
55.42		21	7"	2 1/8"	69.2	1.06	365	357.8		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
27'	5 1/2	120	3 1/2	1	450	68		7	8	0
		90	3 1/2	1	400	58	Ream.			
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
100	40	No. 2	PRES. SUPT.	TANKS		1	88			240
20	60	MODEL	S.P.M.			2				
16		150	LINER SIZE	5 1/2" x 12		3				
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				5						
				Weather		Water				
				Temp.						
				Bbls						
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
1/2" hard lava	12:04	1:02	1
1/2" service	1:15	1:15	1/4
1/2" out	1:15	2:15	1
1/2" up junk with 6 runs in	2:15	4	
1/2" 6 singles down		4:15	3/4
1/2" undergauge hole	4:30		
1/2" 1.75" 1" 4509		5:15	3/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
5.92		21	7"	2 1/8"	69.2			206	28	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
		210	7 1/4	1	450	68		4	6	1
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
		No. 2	PRES. SUPT.			1	96			240
		MODEL	S.P.M.			2				
		110	LINER SIZE	5 1/2" x 12		3				
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				4929		7 1/2				
				Weather		Water				
				Temp.						
				Bbls						
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
1/2" undergauge hole	11:45	12:00	1/4
1/2" service	12:00	12:00	1/4
1/2" out	12:30	2:00	1 1/2
1/2" 1.75" 1" 4509	2:00	3:00	1 1/2
1/2" 1.75" 1" 4509	3:30	4:15	1/2

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
		21	7"	2 1/8"	69.2		365	650.2		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	230			1	800	30				
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
500		No. 2	PRES. SUPT.	J. K. K.		1	104			240
30		MODEL	S.P.M.			2				
16			LINER SIZE			3				
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4						
				5						
				Weather		Water				
				Temp.						
				Bbls						
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
1/2" out	4:15	5:00	1 1/4
1/2" service	5:00	5:45	1/2
1/2" out	5:45	6:15	1/2
1/2" out	6:15	7:45	1 1/2
1/2" out	7:45	8:30	3/4
1/2" 1.75" 1" 4509	8:30	11:15	2 1/2
1/2" out	11:15	11:50	1/2
1/2" out	11:50	12:00	1/4

FUEL ON HAND 12:01 a.m.		CASING REPORT		RENTAL EQUIPMENT ON HAND		TRANSFER #	
	gals	RAN	JTS	CSG			
Fuel Rec'd Today (add)	gals	TO	KB USED	SAX	CEM		
TOTAL	gals						
Fuel on Hand 11:59 a.m. (deduct)	gals	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME
FUEL USED	gals	CEMENT RETURNS (YES/NO)	EQUIPMENT CHARGES				HRS
						TOTAL CONTRACTOR'S TIME	
						HRS	
						Approved by Operator's Representative	
						Approved by Toolpusher	

COM 42652

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22 LOCATION I.N.C. MUSKY BLACK FLY L.S.D. M SEC 55 TWP \_\_\_\_\_ R.G. \_\_\_\_\_  
MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
	6053	36	6089	7 1/4	152m	5400	50		21	7"	2 7/8"	619.21	5.95	773	4750	483	5		
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
	35	8 3/4"	WDR	OPEN	19546	20	70	54	12 1/4			1	400	50					
TOUR	M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
	WEIGHT	AEREADEP				No. 1	PRES. SURE	400	No. 2	PRES. SURE	TANKS				1	146	240		
TOUR	VISCOSITY	WATER				MODEL	S.P.M.	50	MODEL	S.P.M.					2	"	"		
	GEL					LINER SIZE	5/2	X	16	LINER SIZE	5 1/2 X 12				3	"	"		
TOUR	W.L.	F.C.	pH.	DESILTER: Hours Op.		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees	4	"	"			
	ADDITIVES:	HALOALKRAT 25				GENERAL: FUEL # 46				WALBON 50				5	138	"			
TOUR	Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	FIRES				

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
	6089	5'	6094	13	54	105			21	7"	2 7/8"	619.21	5.95	773	4750	483	5		
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
	35	8 3/4"	WDR	OPEN	19546	20	70	59	14 1/4			1	400	50					
TOUR	M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
	WEIGHT					No. 1	PRES. SURE	400	No. 2	PRES. SURE	TANKS				1	154	240		
TOUR	VISCOSITY					MODEL	S.P.M.	50	MODEL	S.P.M.					2	"	"		
	GEL					LINER SIZE	5 1/2	X	16	LINER SIZE	5 1/2 X 12				3	"	"		
TOUR	W.L.	F.C.	pH.	DESILTER: Hours Op.		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees	4	"	"			
	ADDITIVES:					GENERAL:								5	146	"			
TOUR	Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	FIRES				

TOUR	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly			
	6091								19	7"	2 7/8"	619.21	5.95	773	4750	483	5		
MIDNIGHT	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
	36	8 3/4"	WDR	OPEN	21554														
TOUR	M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
	WEIGHT					No. 1	PRES. SURE		No. 2	PRES. SURE					1	162	240		
TOUR	VISCOSITY					MODEL	S.P.M.		MODEL	S.P.M.					2	"	"		
	GEL					LINER SIZE			LINER SIZE					3	"	"			
TOUR	W.L.	F.C.	pH.	DESILTER: Hours Op.		U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees	4	"	"			
	ADDITIVES:					GENERAL:								5	154	"			
TOUR	Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	FIRES				

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a.m.t.c. Chk'd	Fuel on Hand 12.01 a.m.	gal.	CASING REPORT		RAN	JTS	CSG	RENTAL
Hydril					Rig Savers Chk'd	Fuel Rec'd Today (add)	gal.						
Pipe Rams					Kelly Cock Chk'd	TOTAL	gal.	10		KB USED	SAX	CEM	
Blind Rams					Fire Equip Chk'd	Fuel on Hand 11.59 p.m. (deduct)	gal.	PLUS		PLUG DOWN	A.M.P.M.	DAYS FROM	
TOTCO RING ON BIT	Boiler Operated	Hrs.	Fire Equip Chk'd	FUEL USED	gal.	CEMENT RETURNS - (YES/NO)		EQUIPMENT CHANGES					

CONSERVATION BOARD COPY

2 LOCATION **E.N.C. MUSKY BLACK FLY** LSD **M** SEC **55** W P RGE W DATE **MARCH 8** 19**70**

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS DAYS FROM SPUD

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
00.50	21	7"	2 7/8	19.21	935	773	433	5	

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
54	12 1/2			1	400	50				

4 a.m.	6 a.m.	PUMP	12 m.n.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
4:00	4:00	No. 2					1 146 240	
50	50	MODEL					2 " "	
16		LINER SIZE					3 " "	

U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees
4'6"				

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
00.50	21	7"	2 7/8	19.21	935	773	433	5	

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
59	14 1/2			1	400	50				

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
		No. 2					1 154 240	
		MODEL					2 " "	
		LINER SIZE					3 " "	

U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	1200	130	1 1/2
RIG SERV 130ps	130	145	1/4
DRILLING	145	800	6 1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
00.50	21	7"	2 7/8	19.21	935	773	433	5	

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
59	14 1/2			1	400	50				

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
		No. 2					1 154 240	
		MODEL					2 " "	
		LINER SIZE					3 " "	

U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
00.50	19	7"	2 7/8	19.21	935	773	433	5	

Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
59	14 1/2			1	400	50				

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
		No. 2					1 162 240	
		MODEL					2 " "	
		LINER SIZE					3 " "	

U. Flow:	O. Flow:	SURVEYS	At Feet	Degrees

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #

Fuel Rec'd Today (add)	gals.	TOTAL	gals.	TO	KB USED	SAX	CEM

Fuel on Hand 11 59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A M	P M	DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR S TIME
						54		

FUEL USED	gals.	CEMENT RETURNS (YES NO)	EQUIPMENT CHANGES

Approved by Operator's Representative *R. J. Stahl*

Approved by Toolpusher *[Signature]*

COM 42703



**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION INC. BT AL HUSKY BLACKFLY SC MI SEC 55 TWP  
MAILING POINT SHIPPING POINT MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	AT Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5952	53	6005	7 7/4	152 m	57	84	21	7"	2 7/8	(19 1/2)	935	773	81 3/4	433	7		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	8 3/4	WDR	OPEN	263458	25	58	230	37 1/2			1	430	68				

DRILLING  
RIG SER.  
DRILLING

M.U.D.	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change										
WEIGHT	AERATED				No. 1	PRESSURE	430	430	430	430	No. 2	PRESSURE	TANKS			1	122	240								
VISCOSITY	WATER				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.	TANKS			2	"	"								
GEL					LINE SIZE	LINE SIZE	5 1/2	16	16	16	LINE SIZE	LINE SIZE	TANKS			3	"	"								
W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS										
ADDITIVES: GENERAL: FUEL 6'																At Feet		Degrees	4		"	"	5		114	
HAZARDOUS 25 lbs																Weather		Water		Temp.		Bbls				
CALDON 50 lbs																Temp.		Water		Bbls						
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES												

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	AT Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
6005	20	6035	4 1/2	152 m	34	22	21	7"	2 7/8	(19 1/2)	935	773	81 3/4	433	11		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	8 3/4	WDR	OPEN	263458	25	58	260	48			1	430	68		2	2	I

DRILLING  
RIG SER.  
DRILLING

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change										
WEIGHT					No. 1	PRESSURE	430			No. 2	PRESSURE	TANKS			1	130	240									
VISCOSITY					MODEL	S.P.M.	68			MODEL	S.P.M.	TANKS			2	130	"									
GEL					LINE SIZE	LINE SIZE	5 1/2	16		LINE SIZE	LINE SIZE	TANKS			3	130	"									
W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS										
ADDITIVES: GENERAL:																At Feet		Degrees	4		130	"	5		132	"
HAZARDOUS 25 lbs																Weather		Water		Temp.		Bbls				
CALDON 50 lbs																Temp.		Water		Bbls						
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES												

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	AT Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
6035	18	6053	5	152	57	62	21	7"	2 7/8	(19 1/2)	935	773	81 3/4	433	11		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
35	8 3/4	WDR	OPEN	19546	20	70	18	5			1	400	50				

DRILLING  
RIG SER.  
DRILLING

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change										
WEIGHT	AERATED				No. 1	PRESSURE	400	400	400	400	No. 2	PRESSURE	TANKS			1	138	240								
VISCOSITY	WATER				MODEL	S.P.M.	50	50	50	50	MODEL	S.P.M.	TANKS			2	138	"								
GEL					LINE SIZE	LINE SIZE	5 1/2	16	16	16	LINE SIZE	LINE SIZE	TANKS			3	138	"								
W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS										
ADDITIVES: GENERAL:																At Feet		Degrees	4		138	"	5		130	"
HAZARDOUS 25 lbs																Weather		Water		Temp.		Bbls				
CALDON 50 lbs																Temp.		Water		Bbls						
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES												

B.O.P.	Tested	Eloped Time	Pressure	Packing & Seal Inspected Date	Crown & motor Chkd	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT								RAN	ITS	CSG	RENT
Hydril					Rig Savers Chkd	Fuel Rec'd Today (add)	gals.												
Pipe Rams					Kelly Cask Chkd	TOTAL	gals.									TO	KB USCD	SAX	CEM
Blind Rams					Fire Equip Chkd	Fuel on Hand 11.59 p.m. (deduct)	gals.									PLUS	PLUG DOWN	A.M. P.M.	DAYS F
TOTCO RING ON BIT		36	Boiler Operated	24	Hrs.	FUEL USED	gals.									CEMENT RETURNS (YES/NO)	EQUIPMENT CHANGES		

CONSERVATION BOARD COPY

LOCATION INC. FT AL HUSKY BLACKFLY SD R1 SEC 55 TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE MARCH 7 1920

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles											REMARKS			TIME		
DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CF	STAB	Ft. up on Kelly				START	STOP	INTVL	
21	7"	2 7/8	6 1/2	19.21	935	365	575	2136	7				1200	330	3 1/2	
230	37%												330	345	1/4	
													345	1200	4 1/4	
<b>PUMP</b> 4 a.m. 6 a.m. 12 m.n. 2 a.m. 4 a.m. 6 a.m. <b>MOTOR HOURS</b> Next Oil Change No. 2 PRES. SURE TANKS 1 122 240 MODEL S.P.M. 68 68 2 " LINER SIZE 5 1/2 x 12 3 " SURVEYS 4 " 5 114 "																
U. Flow: _____ O. Flow: _____ At Feet Degrees Weather _____ Water _____ Temp. _____ Bbls. _____																
Total Miles _____ Slip _____ Feet or Cut _____ At Miles _____ Date Slip or Cut _____ Next Slip _____ Ft. Left on Spool _____											FIRES _____					
<b>DRILL COLLARS</b> 21 7" 2 3/8 6 1/2 19.21 935 365 575 2136 7 <b>DRILLING</b> <b>RIG SERV / BOF</b> <b>DRILLING</b>											DRILLER'S SIGNATURE <u>J. Heigh</u> 2:00 9:00 1 9:00 9:15 1/4 9:15 12:30 3 3/4 12:30 1:00 1/2 1:00 4:00 3 1/2					
<b>PUMP</b> 2 noon 2 p.m. 8 a.m. 10 a.m. 12 noon 2 p.m. <b>MOTOR HOURS</b> Next Oil Change No. 2 PRES. SURE TANKS 1 130 240 MODEL S.P.M. 68 68 2 " LINER SIZE 5 1/2 x 12 3 " SURVEYS 4 130 " 5 132 "																
U. Flow: _____ O. Flow: _____ At Feet Degrees Weather _____ Water _____ Temp. _____ Bbls. _____																
Total Miles _____ Slip _____ Feet or Cut _____ At Miles _____ Date Slip or Cut _____ Next Slip _____ Ft. Left on Spool _____											FIRES _____					
<b>DRILL COLLARS</b> 21 7" 2 7/8 6 1/2 19.21 935 365 575 2136 7 <b>DRILLING</b> <b>RIG SERVICE V BOF + KELLY LOCK</b> <b>DRILLING</b> <b>SURVEYED LOGS</b> <b>MOIST &amp; LAY SURVEY LOGS</b> <b>DOWN</b>											DRILLER'S SIGNATURE <u>Ken Pagan</u> 4:00 4:15 1/4 4:15 4:45 1/2 4:45 6:30 1 3/4 6:30 7:00 1/2 7:00 12:00 5					
<b>PUMP</b> 8 p.m. 10 p.m. 4 p.m. 6 p.m. 8 p.m. 10 p.m. <b>MOTOR HOURS</b> Next Oil Change No. 2 PRES. SURE TANKS 1 138 240 MODEL S.P.M. 68 68 2 " LINER SIZE 5 1/2 x 12 3 " SURVEYS 4 138 " 5 130 "																
U. Flow: _____ O. Flow: _____ At Feet Degrees Weather _____ Water _____ Temp. _____ Bbls. _____																
Total Miles _____ Slip _____ Feet or Cut _____ At Miles _____ Date Slip or Cut _____ Next Slip _____ Ft. Left on Spool _____											FIRES _____					

Fuel on Hand 12:01 a.m.	gals.	-CASING REPORT	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.		TO	KB US&D	SAX	CEM	
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS	PLUG DOWN	A.M. P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
FUEL USED	gals.	CEMENT RETURNS (YES/NO)	EQUIPMENT CHANGES		Approved by Operator's Representative <u>R. P. Noble</u> Approved by Toolpusher _____		

COM 42702

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION T.N.C. ET AL. HUSKEY PLANKEN 15 SEC. 17 TWP. MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. - P.T.	Ft. up on Kelly		
5788	39	5827	7 1/4	150 m	55	1	21 7'	2 1/2	6 1/2	2 1/2	6 1/2	925	365	37 1/2	29		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	8 3/4	SCMS OPEN		863458	30.25	58-90	52	15			1	450	68				

M U D	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	P U M P	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	AERATED WATER				No. 1 PRES. SURE	450	450	450	400	No. 2 PRES. SURE	TANKS				1	98	240		
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	52	MODEL S.P.M.					2	"	"		
GEL					LINER SIZE	3 1/2	3 1/2	3 1/2	16	LINER SIZE	5 1/2 x 14				3	"	"		
W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS			
ADDITIVES:																GENERAL:			
																5825 23 1/2			
																90			
																Weather		Water	
																Temp.		Bbls	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. - P.T.	Ft. up on Kelly		
5827	69'	5896	7 3/4	151 m	56	2	21 7'	2 1/2	6 1/2	2 1/2	6 1/2	925	365	37 1/2	29		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	8 3/4	SCMS OPEN		863458	25	58	121	22 3/4			1	450	68				

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 p.m.	P U M P	8 a.m.	10 a.m.	12 noon	2 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	AERATED WATER				No. 1 PRES. SURE	450	450	450	450	No. 2 PRES. SURE	TANKS				1	106	240		
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"		
GEL					LINER SIZE	3 1/2	3 1/2	3 1/2	16	LINER SIZE	5 1/2 x 14				3	"	"		
W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS			
ADDITIVES:																GENERAL:			
																HARD TREAT 50 LB.			
																CAL GON 50 LB.			
																98			
																Weather		Water	
																Temp.		Bbls	

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. - P.T.	Ft. up on Kelly		
5896	56	5952	7 1/4	152 m	56	2	21 7'	2 1/2	6 1/2	2 1/2	6 1/2	925	365	37 1/2	29		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	8 3/4	SCMS OPEN		863458	25	58	127	30			1	450	68				

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	P U M P	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	AERATED WATER				No. 1 PRES. SURE	450	450	450	450	No. 2 PRES. SURE	TANKS				1	114	240		
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"		
GEL					LINER SIZE	3 1/2	3 1/2	3 1/2	16	LINER SIZE	5 1/2 x 14				3	"	"		
W.L.	F.C.	pH.		DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS			
ADDITIVES:																GENERAL:			
																7 1/2 14			
																106			
																Weather		Water	
																Temp.		Bbls	

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & Matrix Chk d.	Fuel on Hand 12.01 a.m.	gals.	CASING REPORT	RAN	IS	CSG	EQUIPME
Hydril						Fuel Rec d Today (add)	gals.	TOTAL				
Pipe Rams						Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS				
Blind Rams						FUEL USED	gals.	CEMENT RETURNS	YES	NO		
TOTCO RING ON BIT #		Boiler Operated	Hrs.	Fire Equip. Chk d.								GENERAL

LOCATION I.N.C. FT. AL. HUSKEY PLATEAU SEC. 1755 TWP. W RGE. W DATE MARCH 6 19620

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS

Singles 032	DRILL COLLARS 21	No. 7	O.D. 2 7/8	I.D. 6 1/2	Length 192	Air Wt. 935	Sub. Wt. 365	C.B. # 5725	Ft. up on Kelly 29	
Drilled or Cored 52	Hrs. 15	Reamed	Hrs.	Pump No. 1	Pump Pressure 430	S.P.M. 68	Table Torque	T. RUNNING	B. G.	
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
430	400	No. 2	PRES. SURE	TANKS		1	98	240		
68	52	MODEL	S.P.M.			2	"	"		
		LINER SIZE	5 1/2 X 14			3	"	"		
U. Flow:		O. Flow:		SURVEYS		4	"	"		
				At Feet	Degrees	5	90	"		
						Weather		Water		
						Temp.		Bbl.		
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	12:00	2:15	2
RIG SET V ROP	2:00	2:15	1/4
DRILLING	2:15	6:45	4 1/2
SURVEY @ SB25	6:45	7:15	1/2
DRILLING	7:15	8:00	3/4

Singles 211	DRILL COLLARS 21	No. 7	O.D. 2 7/8	I.D. 6 1/2	Length 192	Air Wt. 935	Sub. Wt. 365	C.B. # 5725	Ft. up on Kelly 29	
Drilled or Cored 121	Hrs. 22 3/4	Reamed	Hrs.	Pump No. 1	Pump Pressure 450	S.P.M. 68	Table Torque	T. DRILLING	B. G.	
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
430	450	No. 2	PRES. SURE	TANKS		1	106	240		
68	64	MODEL	S.P.M.			2	"	"		
		LINER SIZE	5 1/2 X 14			3	"	"		
U. Flow:		O. Flow:		SURVEYS		4	"	"		
				At Feet	Degrees	5	98	"		
						Weather		Water		
						Temp.		Bbl.		
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

FIRES	DRILLER'S SIGNATURE		
DRILLING		11:00	3
RIG SET V ROP		11:00	4
DRILLING		11:00	1 1/2

Singles 216	DRILL COLLARS 21	No. 7	O.D. 2 7/8	I.D. 6 1/2	Length 192	Air Wt. 935	Sub. Wt. 365	C.B. # 5725	Ft. up on Kelly 29	
Drilled or Cored 277	Hrs. 30	Reamed	Hrs.	Pump No. 1	Pump Pressure 450	S.P.M. 68	Table Torque	T. RUNNING	B. G.	
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
430	450	No. 2	PRES. SURE	TANKS		1	114	240		
68	68	MODEL	S.P.M.			2	"	"		
		LINER SIZE	5 1/2 X 14			3	"	"		
U. Flow:		O. Flow:		SURVEYS		4	"	"		
				At Feet	Degrees	5	106	240		
						Weather		Water		
						Temp.		Bbl.		
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				

FIRES	DRILLER'S SIGNATURE		
DRILLING		11:00	3
RIG SET V ROP		11:00	4
DRILLING		11:30	2
DRILLING		11:30	1 1/2

Fuel on Hand 12.01 a.m.	gals	CASING REPORT		RAN	ITS	CSG	EQUIPMENT CHANGES		TRANSFER #
Fuel Rec'd Today (add)	gals			TO	AB USED	SAX			
TOTAL	gals								
Fuel on Hand 11:59 p.m. (deduct)	gals			PLUS	PLUG DOWN	A M P M	DAYS FROM SPUD		52
FUEL USED	gals			CEMENT RETURNS - YES NO		GENERAL		TOTAL COMPANY TIME HRS	

DRILLER'S SIGNATURE		TOTAL CONTRACTOR'S TIME HRS	
Approved by Operator's Representative		Approved by Toolpusher	

D COPY COM-33125

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22

LOCATION **INC ET AL. HUSKY BLACKFLY M 55**

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ann-Wtr	Sub. Wt.	CB Fl	Ft. up on Kelly		
5735	32	5767	7 1/2	150m	54	2		21	7"		2 1/2	67.2	365	365	27		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	8 3/4	SCWG	OPEN	378125	58	82	19 1/4				1	450	68				

DRILLING SURVEY @ DRILLING

M.U.D.	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	AERATED				No. 1 PRES SURE	450	450	450	450	No. 2 PRES SURE	TANKS				1	74	240		
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"		
GEL					LINER SIZE	5 1/2	16	16	16	LINER SIZE					3	"	"		
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4	"	"		
ADDITIVES: GENERAL: 5763 12 1/2																5	66	"	
Weather																Temp.		Bois	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES NIL					

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ann-Wtr	Sub. Wt.	CB Fl	Ft. up on Kelly		
5767	8	5775	2 1/2	150m	54	2		21	7"		2 1/2	67.2	365	365	27		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	8 3/4	SCWG	OPEN	378125	58	82	19 1/4				1	450	68				
34	8 3/4	SCWG	"	863458	25	58	90	2 1/4							1	8	I

FIRES NIL

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	AERATED				No. 1 PRES SURE	450	450	450	450	No. 2 PRES SURE	TANKS				1	82	240		
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"		
GEL					LINER SIZE	5 1/2	16	16	16	LINER SIZE					3	"	"		
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4	"	"		
ADDITIVES: GENERAL: Carbon salt, Magnesium salt																5	74	"	
Weather																Temp.		Bois	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ann-Wtr	Sub. Wt.	CB Fl	Ft. up on Kelly		
5775	13	5788	7 1/2	150m	54	2		21	7"		2 1/2	67.2	365	365	27		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
34	8 3/4	SCWG	OPEN	863458	25	58	103	2 1/4			1	450	68				
							13	7 1/2									

FIRES

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT	AERATED				No. 1 PRES SURE	450	450	450	450	No. 2 PRES SURE	TANKS				1	90	240		
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"		
GEL					LINER SIZE	5 1/2	16	16	16	LINER SIZE					3	"	"		
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		4	"	"		
ADDITIVES: GENERAL:																5	82	"	
Weather																Temp.		Bois	
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	FIRES					

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & mat. Chk d	Fuel on Hand 12.01 a.m.	gals	CASING REPORT	RAN	ITS	CSG	EQUIPMENT
Hydril					Rig Savers Chk d	Fuel Rec'd Today (and)	gals	TOTAL	gals	TO	KB USED	SAP
Pipe Rams					Kelly Cork Chk d	Fuel on Hand 11.39 p.m. (leak)	gals	PLUS	gals	PLUG DOWN	A.M.P.M.	DAYS FROM
Blind Rams					Fire Equip Chk d	FUEL USED	gals	CEMENT RETURNS	YES NO	GENERAL		

TOICO RING ON BIT # 33	Boiler Operated	Hrs.	Fire Equip Chk d	FUEL USED	gals	CEMENT RETURNS	YES NO	GENERAL				
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CONSERVATION BOARD COPY

LOCATION **I.N.C. ET AL. HUSKY BLACKFLY M 55** SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE **MARCH 5 / 1962**

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air-Weir	Sub. Weir	C.B. Ft.	Ft. up on Kelly	
2		21	7"	2 3/4"	619.21	5.0 C.	3.65	5.44	27	
94	94									
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
90	2 1/4			1	450	68		1	3	I

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES SURE	1	82	240
MODEL	S.P.M.	2	"	"
LINER SIZE		3	"	"
U. Flow:		O. Flow:		
		SURVEYS		
		At Feet	Degrees	
		5763	12 1/8	
		Weather		Water
		Temp.		Bbls.

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	1200	530	5 1/2
SURVEY @ 5763 R16 SERV	530	600	1/2
DRILLING	600	800	2

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air-Weir	Sub. Weir	C.B. Ft.	Ft. up on Kelly	
2		21	7"	2 3/4"	619.21	5.0 C.	3.65	5.44	27	
94	94									
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
102	2 1/4			1	450	68		1	3	I

PUMP		MOTOR HOURS		Next Oil Change
No. 2	PRES SURE	1	90	240
MODEL	S.P.M.	2	"	"
LINER SIZE		3	"	"
U. Flow:		O. Flow:		
		SURVEYS		
		At Feet	Degrees	
		5763	12 1/8	
		Weather		Water
		Temp.		Bbls.

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	4:10	4:15	4
10' FILL	4:30		4
DRILLING	4:30	12:00	7 1/2

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

Fuel on Hand 12:01 a.m.	gals	CASING REPORT	RAN	ITS	CSG	EQUIPMENT CHANGES	TRANSFER #
Fuel Rec'd Today (add)	gals						
TOTAL	gals	IO	KB USED	SAX	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals	PLUS	PLUG DOWN	A.M.	P.M.	DAYS FROM SPUD	TOTAL COMPANY TIME HRS
FUEL USED	gals	CEMENT RETURNS (YES/NO)	GENERAL			51	TOTAL CONTRACTOR'S TIME HRS

Approved by Operator's Representative: *[Signature]*

Approved by Toolpusher: *[Signature]*

**COMMONWEALTH DRILLING LTD.**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION Inva Ft #1 - 1st day 1st shift LSD M SEC. SS TWP. \_\_\_\_\_

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	A. Wt	Sub. Wt	C.B. Ft.	Ft. up on Kelly		
5683	32	5685	7 1/4	142	5002	37		21	7"	2 1/2"	619 1/2	935	549	2136	18		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
32	8 3/4	REG IV	OUT	55941	22	58	290	46			1	475	68		24	18	

Drilling Host

M.U.D.	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1 PRES. SURE	475	475	475	475	No. 2 PRES. SURE					1	30	240
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"
GEL					LINER SIZE	5 1/2	4	16		LINER SIZE					3	"	"
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:		SURVEYS		At Feet		Degrees		4	"	"	
ADDITIVES:		CARBON-50		GENERAL:		HAGATREAT-50								5	42	240	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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FIRES

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	A. Wt	Sub. Wt	C.B. Ft.	Ft. up on Kelly		
5685	20	5705	4	144	5034	58		21	7"	2 1/2"	619 1/2	935	549	2136	29		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	8 3/4	SC 46	OPEN	37825	30	58	20	4			1	450	68				

FINISH OF 2 1/2" SER CHANGE 3 PD SLIP 15' RUN IN W BREAK CIR DRILLING SURVEY @ DRILLING

M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1 PRES. SURE	450	450	450	450	No. 2 PRES. SURE	TANK				1	58	240
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"
GEL					LINER SIZE	5 1/2	4	16		LINER SIZE					3	"	"
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:		SURVEYS		At Feet		Degrees		4	"	"	
ADDITIVES:		CARBON 50		GENERAL:		HAGATREAT 50								5	50	"	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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FIRES

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	A. Wt	Sub. Wt	C.B. Ft.	Ft. up on Kelly		
5705	30	5735	7 3/4	146	5063	58		21	7"	2 1/2"	619 1/2	935	549	2136			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	8 3/4	SC 46	OPEN	37825	25	58	50	11 3/4			1	450	68				

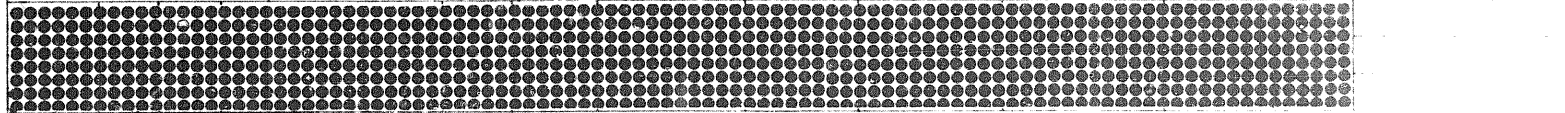
LEAK

M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	AERATED				No. 1 PRES. SURE	450	450	450	450	No. 2 PRES. SURE	TANK				1	66	240
VISCOSITY	WATER				MODEL S.P.M.	68	68	68	68	MODEL S.P.M.					2	"	"
GEL					LINER SIZE	5 1/2	4	16		LINER SIZE					3	"	"
W.L.	F.C.	pH.	DESILTER: Hours Op:		U. Flow:	O. Flow:		SURVEYS		At Feet		Degrees		4	"	"	
ADDITIVES:		CARBON 50		GENERAL:		HAGATREAT 50								5	55	"	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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FIRES

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a.m.c Chk d	Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	TS	CSG	
Hydril					Rig Savers Chk d	Fuel Rec'd Today (add)	gals	TOTAL	10	XB USED	NAT	CEM
Pipe Rams					Kelly Calk Chk d	Fuel on Hand 11 59 p.m. (deduct)	gals	PLUS		PLUG DOWN		A.M
Blind Rams					Free Equip. Chk d	FUEL USED	gals	CEMENT RETURNS	YES	NO		DAYS F
TOTCO RING ON BIT #		Boiler Operated	Hrs									GENERAL



LOCATION Inc Ft Al Husky Block #1 LSD M SEC SS TWP.     RGE.     W.     DATE March 4 / 70

MAILING POINT     SHIPPING POINT     MILES MOVED     ROAD CONDITIONS    

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Ar. Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
337		21	7"	2 7/8"	619.2	935	549	2136	18	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
290	46			1	475	68				

REMARKS	TIME		
	START	STOP	INTVL
Drilling Holt	7:15	9:15	3/4

PUMP		MOTOR HOURS		Next Oil Change				
4 a.m.	6 a.m.	12 m.	2 a.m.	4 a.m.	6 a.m.	1	50	240
475	475	No. 2	PRE-SURE			2	"	"
68	68	MODEL	S.P.M.			3	"	"
		LINER SIZE				4	"	"
		5 1/2" x 1 1/2"				5	42	240

SURVEYS	
At Feet	Degrees
4	
5	42
	240

PUMP		MOTOR HOURS		Next Oil Change				
12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.	1	58	240
450	450	No. 2	PRE-SURE			2	"	"
68	68	MODEL	S.P.M.			3	"	"
16	160	LINER SIZE				4	"	"
		5 1/2" x 2"				5	50	"

REMARKS	TIME		
	START	STOP	INTVL
FINISH OUT	8:00	9:00	1
7 1/2 SER / CHECK BLIND BANK	9:00	9:15	1/4
CHANGE 3 POINT KEAMER CUTTERS	9:15	9:30	1/4
SLIP 15' DRILL LINE	9:30	9:45	1/4
RUN IN W/P.T # 33	9:45	11:00	1 1/4
BREAK CIRC CLEAN TO BOTTOM	11:00	11:30	1/2
DRILLING	11:30	3:00	3 1/2
SURVEY @ 5703	3:00	2:30	1/2
DRILLING	3:30	4:00	1/2

PUMP		MOTOR HOURS		Next Oil Change				
8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	1	66	240
4	4	No. 2	PRE-SURE			2	"	"
16	16	MODEL	S.P.M.			3	"	"
		LINER SIZE				4	"	"
		5 1/2" x 2"				5	58	"

REMARKS	TIME		
	START	STOP	INTVL
DRILL	4:00	6:15	2 1/4
DRILL	6:15	11:00	4 3/4
DRILL	11:00	13:00	2

PUMP		MOTOR HOURS		Next Oil Change				
8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	1	66	240
4	4	No. 2	PRE-SURE			2	"	"
16	16	MODEL	S.P.M.			3	"	"
		LINER SIZE				4	"	"
		5 1/2" x 2"				5	58	"

REMARKS	TIME		
	START	STOP	INTVL
DRILL	4:00	6:15	2 1/4
DRILL	6:15	11:00	4 3/4
DRILL	11:00	13:00	2

Fuel on Hand 12:01 a.m.	gals	CASING REPORT	RAN	ITS	CSG
Fuel Rec'd Today (add)	gals	IO	KR USED	SAX	CEM
TOTAL	gals	PLUS	PLG DOWN	A.M	P.M
Fuel on Hand 11:59 p.m. (deduct)	gals	CEMENT RETURNS (YES/NO)	GENERAL		

EQUIPMENT CHANGES	TRANSFER #	
DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
50	HRS	HRS

D COPY

Approved by Operator's Representative  
 Approved by Toolpusher  
 COM/33123



**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION 106 1st St. Springfield, Mass SEC. 1125 TWP. 1125  
M.A.I.N. POINT \_\_\_\_\_ SURVEYING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5653	32	5685	7 1/4	142	5003	37		21	7	4 1/2	6170	935	549	216	13		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
32	8 3/4	R91X	OUT	35941	22	58	290	46			7	475	68		2	4	

M U D	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	142				No. 1 PRE-SURE	475	475	475	475	No. 2 PRE-SURE					1	50	240
VISCOSITY	Water				MODEL	58	68	68	68	MODEL					2		
GEL	Water				LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	LINE SIZE					3		
W.L.	F.C.				DESILTER: Hours Op.	U. Flow:				O. Flow:	SURVEYS		At Feet		Degrees	4	
ADDITIVES:	Galgon 50#				GENERAL:									5	42	240	
	Nagabral 50#																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	Bbls			

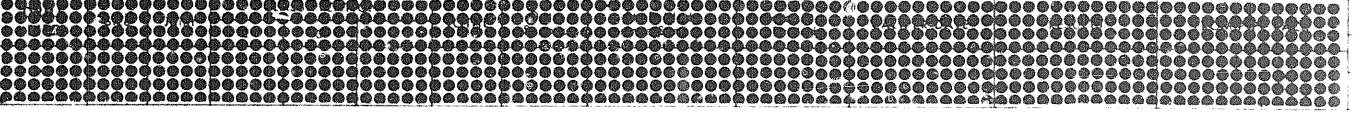
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5685	20	5705	4	14011	503	455		21	7	4 1/2	6170	935	549	216	29		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	8 3/4	S46	Open	378125	30	58	20	4			7	450	68				

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	140				No. 1 PRE-SURE	450	450	450	450	No. 2 PRE-SURE					1	58	240
VISCOSITY	Water				MODEL	58	68	68	68	MODEL					2		
GEL	Water				LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	LINE SIZE					3		
W.L.	F.C.				DESILTER: Hours Op.	U. Flow:				O. Flow:	SURVEYS		At Feet		Degrees	4	
ADDITIVES:	Galgon 50#				GENERAL:									5	50		
	Nagabral 50#																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	Bbls			

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
5705	30	5735	7 1/2	146	506	48		21	7	4 1/2	6170	935	549	216	29		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
33	8 3/4		Open	378125	25	58	50	4 1/2			7	150					

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT	146				No. 1 PRE-SURE	450	450	450	450	No. 2 PRE-SURE					1	66	240
VISCOSITY	Water				MODEL	58	68	68	68	MODEL					2		
GEL	Water				LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	LINE SIZE					3		
W.L.	F.C.				DESILTER: Hours Op.	U. Flow:				O. Flow:	SURVEYS		At Feet		Degrees	4	
ADDITIVES:	Galgon 50#				GENERAL:									5	58		
	Nagabral 50#																
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool	Bbls			

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & mat. Chk'd	Fuel on Hand 12:01 a.m.	gals	CASING REPORT				RAN	JTS	CSG	REN T
Hydrit					Ria Savers Chk'd	Fuel Rec today (add)	gals								
Pipe Rams					Kelly Cock Chk'd	TOTAL	gals					TO	KB USED	SAX	CEM
Blind Rams					Fuel on Hand 11:59 p.m. (about)	FUEL USED	gals					PLUS	PLUG DOWN	A.M P.M	DAYS F
TOICO RING ON BIT #	Boiler Operated	Hrs	Free Equip Chk'd	FUEL USED	gals	CEMENT RETURNS	YES NO	EQUIPMENT CHANGES							



CONSERVATION BOARD COPY

LOCATION 166 Valinsky Highway M55 TWP SD RGE SEC W DATE March 4/70

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
37		21	7	2 1/4	61 1/2	935	549	2136	18	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
290	46			1	475	68		2	4	

REMARKS		TIME	
		START	STOP
		7:00	7:15
		7:15	7:30

4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
4 1/2	4 1/2	No 2					1 30	240
6 1/2	6 1/2	MODEL					2	
		S.P.M.					3	
		LINE SIZE					4	
		5 1/2					5	240

FIRES		DRILLER'S SIGNATURE	

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
4 5/8	4 5/8	No 2					1 58	240
6 5/8	6 5/8	MODEL					2	
		S.P.M.					3	
		LINE SIZE					4	
		5 1/2					5	240

FIRES		DRILLER'S SIGNATURE	

8 a.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
		No 2					1 66	240
		MODEL					2	
		S.P.M.					3	
		LINE SIZE					4	
		5 1/2					5	58

FIRES		DRILLER'S SIGNATURE	

Fuel on Hand 12 01 a.m.	gals	CASING REPORT	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec today (add)	gals	TOTAL	TO	KB USED	SAX	CEM	
Fuel on Hand 11 59 p.m. (deduct)	gals	FUEL USED	PLUS	PLUG DOWN	A M P M	DAYS FROM SPUD.	TOTAL COMPANY TIME HRS
	gals	CEMENT RETURNS (YES NO)		EQUIPMENT CHANGES			TOTAL CONTRACTOR'S TIME HRS
						Approved by Operator's Representative	
						Approved by Toolpusher	

COM 42662

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO *22*

LOCATION *North of Monday Blackfly 4155*

MAILING POINT

SHAFTING POINT

TWP \_\_\_\_\_ RGE \_\_\_\_\_ MILES MOVED \_\_\_\_\_

From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
5516	44	5560	7 1/2	142	427931			21	7"	2 1/2	6172	175	541	2136	15

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
32	8 3/4	Open		55941	22-20	58	279	314			1	450	68				

M U D	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	Aerated				No. 1 PRE. SURE 450	475				No. 2 PRE. SURE 475					1	26	240	
VISCOSITY					MODEL S.P.M. 68	68				MODEL S.P.M. 68					2	26		
GEL	Water				LINER SIZE 5 1/2	16				LINER SIZE 5 1/2	12				3	26		
W.L.	F.C.				DESILTER Hours Op:				U. Flow				O. Flow				SURVEYS At Feet Degrees	
ADDITIVES:																GENERAL:		
Drilling Line Record																Weather: Water		

From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
5560	53	5613	7 1/2	142	4940	35		21	7"	2 1/2	6141	175	541	2136	27

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
32	8 3/4	Open		55941	20	58	654				1	475	68				

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	Aerated				No. 1 PRE. SURE 475	475				No. 2 PRE. SURE 475					1	42	240	
VISCOSITY					MODEL S.P.M. 68	68				MODEL S.P.M. 68					2			
GEL	Water				LINER SIZE 5 1/2	16				LINER SIZE 5 1/2	12				3			
W.L.	F.C.				DESILTER Hours Op:				U. Flow				O. Flow				SURVEYS At Feet Degree	
ADDITIVES:																GENERAL:		
Drilling Line Record																Weather: Water		

From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
5613	40	5653	7 1/2	142	477149			21	7"	2 1/2	6172	175	541	2136	14

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
32	8 3/4	Open		55941	20	58	654				1	475	68				

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	Aerated				No. 1 PRE. SURE 475	475				No. 2 PRE. SURE 475					1	42	240	
VISCOSITY					MODEL S.P.M. 68	68				MODEL S.P.M. 68					2			
GEL	Water				LINER SIZE 5 1/2	16				LINER SIZE 5 1/2	12				3			
W.L.	F.C.				DESILTER Hours Op:				U. Flow				O. Flow				SURVEYS At Feet Degree	
ADDITIVES:																GENERAL:		
Drilling Line Record																Weather: Water		

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & main Chk d	Fuel on Hand 12:01 a.m.	gals	CASING REPORT	RAN	ITS	CSG	RENTAL
Hydril						Fuel Rec'd Today (add)	gal	TOTAL				
Pipe Rams		31			Rig Savers Chk d	Fuel on Hand 11:59 a.m. (total)	gal	PLS				
Blind Rams					Kellys Cook Chk d			PLS DOWN				
TOTCO RING ON BIT				Barrier Operated	Hrs	Fuel Equip Chk d	gal	CEMENT RETURNS YES NO				EQUIPMENT CHANGES

CONSERVATION BOARD COPY

LOCATION Sub at Monday Blackfly #155 SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE March 2 1912

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
		21	7	2 1/2	619-21	935		21.5	18		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
4 a.m.	6 a.m.	PUMP			12 m.n.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
4 1/2	4 50	No 2	PRES. SURE						1	26	240
6 5	6 5	MODEL	S.P.M.						2	26	
1 6		LINER SIZE		5 1/2	12				3	26	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees			
				4	26						
				5	18					240	
Total Miles		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS	TIME		
	START	STOP	INTVL
Running	10:00	10:15	15
Running	10:15	10:30	15
Running	10:30	10:45	15
Running	10:45	11:00	15
Running	11:00	11:15	15
Running	11:15	11:30	15
Running	11:30	11:45	15
Running	11:45	12:00	15

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
25		21	7	2 1/2	619-21	935	547	2136	27		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
279	3 1/2			1	450	68	Running				
12 noon	2 p.m.	PUMP			8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
4 75	4 75	No 2	PRES. SURE						1	34	240
6 5	6 5	MODEL	S.P.M.						2	"	"
1 6		LINER SIZE		5 1/2	12				3	"	"
U. Flow		O. Flow		SURVEYS		At Feet		Degrees			
				4	"						
				5	26						
Total Miles		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS	TIME		
	START	STOP	INTVL
Running	10:00	10:15	15
Running	10:15	10:30	15
Running	10:30	10:45	15
Running	10:45	11:00	15
Running	11:00	11:15	15
Running	11:15	11:30	15
Running	11:30	11:45	15
Running	11:45	12:00	15

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
29		21	7	2 1/2	619-21	775	549	2136	14		
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
654				1	475	68	Running				
8 p.m.	10 p.m.	PUMP			4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
4 75	4 75	No 2	PRES. SURE						1	42	240
6 5	6 5	MODEL	S.P.M.						2	"	"
1 6		LINER SIZE		5 1/2	12				3	"	"
U. Flow		O. Flow		SURVEYS		At Feet		Degrees			
				4	"						
				5	36						
Total Miles		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool	

REMARKS	TIME		
	START	STOP	INTVL
Running	11:00	11:15	15
Running	11:15	11:30	15
Running	11:30	11:45	15
Running	11:45	12:00	15

FUEL ON HAND 12 01 a.m.		GALS		CASING REPORT		RAN		ITS		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER #	
FUEL REC'D TODAY (add)		GALS		TOTAL		IO		48 USED		SAX		CEM			
FUEL ON HAND 11 59 p.m. (deduct)		GALS		PLUS		FILL DOWN		A.M.		P.M.		DAYS FROM SPUD:		TOTAL COMPANY TIME HRS	
FUEL USED		GALS		CEMENT RETURNS (YES/NO)		EQUIPMENT CHANGES									

FUEL ON HAND 12 01 a.m.		GALS		CASING REPORT		RAN		ITS		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER #	
FUEL REC'D TODAY (add)		GALS		TOTAL		IO		48 USED		SAX		CEM			
FUEL ON HAND 11 59 p.m. (deduct)		GALS		PLUS		FILL DOWN		A.M.		P.M.		DAYS FROM SPUD:		TOTAL COMPANY TIME HRS	
FUEL USED		GALS		CEMENT RETURNS (YES/NO)		EQUIPMENT CHANGES									
												Approved By Operator's Representative		P. J. ...	
												Approved By Toolpusher			

COM 42661

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22

LOCATION INC ETAL HUSKY BLACKFLY LSD 14

SEC 35 TAP

MAILING POINT

SHIPPING POINT

MILES MOVED

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB-Ft	Ft. up on Kelly
6635	31'	6666	5 1/2	148	64	2	19	7"	2 1/2"	2 1/2"	56 1/2	11.2	10.2	1340	175

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
38	8 3/4"	SSR	OPEN	204032	18-20	58	111	394			1	450	68		1	1	1

M U D	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1 PRE-SURE	450	450			No. 2 PRE-SURE	450	450			1	166	240
VISCOSITY					MODEL	S.P.W.	6 1/2	6 1/2	4 1/2	MODEL	S.P.W.	6 1/2	6 1/2	4 1/2	2		
GEL					LINE SIZE	5 1/2	5 1/2	4 1/2		LINE SIZE	5 1/2	5 1/2	4 1/2	3			

W.L.	FC	pH	DESILTER: Hours Op.	U. Flow	O. Flow	SURVEYS	At Feet	Degrees	4			5	142				
ADDITIVES:		GENERAL:		Cation 35 lb.		Graphite 8 lb.		HAGREAT 35 lb.									

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB-Ft	Ft. up on Kelly
6666	14	6680	2	149	64	2	19	7"	2 1/2"	2 1/2"	56 1/2	11.2	10.2	1340	18

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
39	8 3/4"	ACC	Ø	8215	6	350	14	2			1	750	45				

M U D	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1 PRE-SURE	750	750			No. 2 PRE-SURE	750	750			1	174	240
VISCOSITY					MODEL	S.P.W.	4 1/2	4 1/2	4 1/2	MODEL	S.P.W.	4 1/2	4 1/2	4 1/2	2		
GEL					LINE SIZE	5 1/2	5 1/2	4 1/2		LINE SIZE	5 1/2	5 1/2	4 1/2	3			

W.L.	FC	pH	DESILTER: Hours Op.	U. Flow	O. Flow	SURVEYS	At Feet	Degrees	4			5	158				
ADDITIVES:		GENERAL:		SOAP - 4 GAL.		Lign. drill - 1 gal collar		Stabilizer 56 from bit		HAGREAT - 25							

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB-Ft	Ft. up on Kelly
6680	6	6686	1	149	64	2	19	7"	2 1/2"	2 1/2"	56 1/2	11.2	10.2	1340	18

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
39	8 3/4"	ACC	Ø	8215	6	350	20	3			1						
40	8 3/4"	SSR	OPEN	21423													

M U D	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change	
WEIGHT					No. 1 PRE-SURE	850	850			No. 2 PRE-SURE	850	850			1	182	240
VISCOSITY					MODEL	S.P.W.	4 1/2	4 1/2	4 1/2	MODEL	S.P.W.	4 1/2	4 1/2	4 1/2	2		
GEL					LINE SIZE	5 1/2	5 1/2	4 1/2		LINE SIZE	5 1/2	5 1/2	4 1/2	3			

W.L.	FC	pH	DESILTER: Hours Op.	U. Flow	O. Flow	SURVEYS	At Feet	Degrees	4			5	166				
ADDITIVES:		GENERAL:															

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
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Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766	766	17		766	2/21/60	1/00	1155

Drilling Line Record	Size	Make	Serial No.	No Lines	Trips	Ton Miles	Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool
19	WHIGHAM	T-687	8	8		766							

LOCATION INC ETAL HUSKY Blackfly LSD 19 SEC 35 TWP            RGE            W            DATE March 17 19 70

MAILING POINT            SHIPPING POINT            MILES MOVED            ROAD CONDITIONS            DAYS FROM SPUD           

Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB Ft	Ft up on Kelly		
2		19	7"	2 1/2"	28	2.249	0.127	2574	175		
0.00											
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
111	394			7	430	68		1	1	1	
4 a.m.	6 a.m.	PUMP			12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
		No 2	PRES. SURE					1	166	240	
		MODEL	S.P.M.					2	"	"	
		150	50					3	"	"	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees			
				4							
				5		142					
				Weather		Water					
				Temp.		Bbls.					
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft Left on Spool	
760		15		760		March 17 1970		1000		3335	

REMARKS	TIME		
	START	STOP	INTVL
DRILL HOIST	12:00	5:25	5 3/4
	5:25	6:00	2 1/4

Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB Ft	Ft up on Kelly		
2		19	7"	2 1/2"	28	2.249	0.127	2574	175		
0.60											
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
14	2			7	750	45		2	1	1	
12 noon	2 a.m.	PUMP			8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
		No 2	PRES. SURE					1	174	240	
		MODEL	S.P.M.					2	174	240	
		150	50					3	174	240	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees			
				4							
				5		158					
				Weather		Water					
				Temp.		Bbls.					
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft Left on Spool	
760		15		760		March 17 1970		1000		3335	

REMARKS	TIME		
	START	STOP	INTVL
DRILL HOIST	12:00	5:25	5 3/4
	5:25	6:00	2 1/4
DRILLING	4:00	5:00	1
TRY TO REAGIN CIRCULATION	5:00	6:45	3/4
WORK TIGHT HOLE	6:45	7:15	1/2
HOIST	7:15	7:45	3
REPAIR	7:45	10:00	2 1/4
WORK	10:00	12:00	2
	12:30	1:00	3/4

Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	CB Ft	Ft up on Kelly		
2		19	7"	2 1/2"	28	2.249	0.127	2574	175		
0.60											
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
20	3			1							
8 a.m.	10 p.m.	PUMP			4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
		No 2	PRES. SURE					1	182	240	
		MODEL	S.P.M.					2	"	"	
		150	50					3	"	"	
U. Flow		O. Flow		SURVEYS		At Feet		Degrees			
				4							
				5		166					
				Weather		Water					
				Temp.		Bbls.					
Total Miles		Feet Slip or Cut		At Miles		Date Slip or Cut		Next Slip		Ft Left on Spool	
760		15		760		March 17 1970		1000		3335	

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	4:00	5:00	1
TRY TO REAGIN CIRCULATION	5:00	6:45	3/4
WORK TIGHT HOLE	6:45	7:15	1/2
HOIST	7:15	7:45	3
REPAIR	7:45	10:00	2 1/4
WORK	10:00	12:00	2
	12:30	1:00	3/4

FUEL USED		TOTAL		FUEL ON HAND	
Fuel on Hand 12:01 a.m.	gal.	TO	gal.	Fuel on Hand 1:59 p.m. (adjusted)	gal.
Fuel Rec'd Today (add)	gal.	FROM	gal.		
		PLU	gal.		

CASING REPORT		RENTAL EQUIPMENT ON HAND	
RAN	ITS	CSG	TRANSFER #
SAY	CEM		
PLUG DOWN	A M P M	DAYS FROM SPUD	63

EQUIPMENT CHANGES	
Approved by Operator's Representative	<i>[Signature]</i>
Approved by Toolpusher	<i>[Signature]</i>

TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
HRS	HRS

COM 42713

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22 LOCATION INC. ETAL HUNNY BLACKFLY SEC 25  
MAILING POINT

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Fr.	Ft up on Kelly		
6559	44	6603	7 3/4	148	64	5967.78		19	7"	23	361.24	14	627	57A132	13140		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
38	8 3/4	588	OPEN	224022	18	38	48	9			1	450	68				

MUD	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	AERATED				No. 1	PRE-SURE	450	48	48	48	No. 2	PRE-SURE	TANKS			1	142	240
VISCOSITY	WATER.				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.	5 1/2 X 12			2	"	"
GEL					LINER SIZE	5 1/2 X 16			LINER SIZE	5 1/2 X 12			3	"	"	3	"	"

W.L. F.C. pH. DESILTER: Hours Op. U. Flow. O. Flow. SURVEYS At Feet Degrees

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
176	WRIGHT	9-687	8	5	180	760	15	760	140	10/10	1000	3855	

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Fr.	Ft up on Kelly		
6603	16	6619	7 1/4	148	64	5998.58		19	7"	23	361.24	14	627	57A132	13140		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
38	8 3/4	588	OUT	224022	18	38	48	9			1	450	68				

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	AERATED				No. 1	PRE-SURE	450	48	48	48	No. 2	PRE-SURE	TANKS			1	150	240
VISCOSITY	WATER				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.	5 1/2 X 12			2	150	"
GEL					LINER SIZE	5 1/2 X 16			LINER SIZE	5 1/2 X 12			3	150	"	3	150	"

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
176	WRIGHT	9-687	8	5	180	760	15	760	140	10/10	1000	3855	

From	Footage	To	Hrs on Bottom	Wt Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt	Sub. Wt	C.B. Fr.	Ft up on Kelly		
6619	16	6635	7 1/4	148	64	6030.00		19	7"	23	361.24	14	627	57A132	13140		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
38	8 3/4	588	OUT	224022	18	38	48	9			1	450	68				

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT	AERATED				No. 1	PRE-SURE	450	48	48	48	No. 2	PRE-SURE	TANKS			1	158	240
VISCOSITY	WATER				MODEL	S.P.M.	68	68	68	68	MODEL	S.P.M.	5 1/2 X 12			2	158	"
GEL					LINER SIZE	5 1/2 X 16			LINER SIZE	5 1/2 X 12			3	158	"	3	158	"

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
176	WRIGHT	9-687	8	5	180	760	15	760	140	10/10	1000	3855	

LOCATION INC. ETAL HUSKY BLACKFLY LSD 4 SEC 55 TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE March 16/1970

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
7.08		19	7"	2 3/8"	30.124	19	57A32	3.40			
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
48	9			1	450	68					
4 a.m.	6 a.m.	PUMP				12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change
4.0	4.0	No. 2	TANKS		1	142	240				
6.8	6.8	MODEL	5/2 X 12		2	"	"				
16	1.50	LINER SIZE			3	"	"				
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees			
White 10 lbs				4		"		"			
				5		118		"			
				Weather		Water					
				Temp.		Bbbls					
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
760	15		760	Mar 15/70	1000	3885					

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	12:00	2:00	2
Big SERVICE 1500'S	2:15	3:15	1
DRILL 1/2 HOLD	2:15	8:00	5 1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
8.58		19	7"	2 3/8"	28.562	19	57A32	3.40	16		
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
64	16 1/2			1	450	68					
12 noon	2 p.m.	PUMP				8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
4.50	4.50	No. 2	TANKS		1	150	240				
6.8	6.8	MODEL	5/2 X 12		2	150					
6	1.50	LINER SIZE			3	150					
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees			
				4		"		"			
				5		126		"			
				Weather		Water					
				Temp.		Bbbls					
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
760	15		760	Mar 15/70		3885					

REMARKS	DRILLER'S SIGNATURE
Big SERVICE check 1500'S	K. J. N.
Saturday	
Drilling	

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly		
2.00		19	7"	2 3/8"	28.562	19	57A32	3.40	1.15		
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
80	23 1/2			1	450	68					
8 p.m.	10 p.m.	PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
4.50	4.50	No. 2	TANKS		1	158	240				
6.8	6.8	MODEL	5/2 X 12		2	158					
	1.50	LINER SIZE			3	158					
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees			
				4		158		"			
				5		130		"			
				Weather		Water					
				Temp.		Bbbls					
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool					
760	15		760	Mar 15/70		3885					

REMARKS	DRILLER'S SIGNATURE
Drilling	K. J. N.
Saturday 8:16 35'	
Big SERVICE 1500'S	

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT		RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER 22
Fuel Rec'd Today (add)	gals.							
TOTAL	gals.	10		KB USED	SAX	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS		PLUG DOWN	A M	P A	DAYS FROM SPUD	62
FUEL USED	gals.	CENEN RETURNS (YES/NO)		EQUIPMENT CHANGES			TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME

APPROVED BY OPERATOR'S REPRESENTATIVE	K. J. N.
APPROVED BY TOOLPUSHER	

COM 42712





LOCATION I.N.C. ETLH HUSKY Blackfly LSD M SEC 55 TAP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE March 15 19 70

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
13	19	7	2 1/2	2 1/8	56.24	10	3.65	3.5	184	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
298	58 1/2			1	475	68				
4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 5 a.m. MOTOR HOURS Next Oil Change No. 2 PREL. SURE TANKS 1 118 240 MODEL S.P.M. 2 118 LINER SIZE 3 118 U. Flow O. Flow SURVEYS At Feet Degrees 4 118 5 94 Weather Water Temp. Bbls										
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				
81	15			NEW	750	3700				

REMARKS	START	STOP	INTVL
Lay DOWN CONTINUED KELLY	12:00		
+ PICK UP OWN DRILL	1:15	8:00	1 1/4
			6 1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
72	19	7	2 1/2	2 1/8	56.14	10	3.65	3.5	184	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
64 1/4				1	450	68		2	4	1
12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change No. 2 PREL. SURE 1 126 540 MODEL S.P.M. 2 126 LINER SIZE 3 126 U. Flow O. Flow SURVEYS At Feet Degrees 4 126 5 102 Weather Water Temp. Bbls										
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				
581				NEW	750	3900				

FIRES	DRILLER'S SIGNATURE	START	STOP	INTVL
Drilling	Kan Ryan	8:00	8:45	3/4
Service check BOPs		8:45	9:00	1/4
Survey		9:00	9:30	1/2
Drilling		9:30	2:15	4 1/2
Survey		2:45	4:00	1 1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
72	19	7	2 1/2	2 1/8	56.14	10	3.65	3.5	184	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
4 1/4				1	450	68		10	BRILLING	
8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change No. 2 PREL. SURE 1 134 240 MODEL S.P.M. 2 134 LINER SIZE 3 134 U. Flow O. Flow SURVEYS At Feet Degrees 4 134 5 110 Weather Water Temp. Bbls										
Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				
760	15			NEW	750	3805				

FIRES	DRILLER'S SIGNATURE	START	STOP	INTVL
Finish out	John Robinson	4:30	5:00	1/2
Service check CORP		5:00	5:15	1/4
Slip 15' line		5:15	6:00	1 1/4
pick up stabilizer & short DC		6:30	6:45	1/2
Survey in		7:00	7:45	1 1/2
Break wire		7:45	8:15	1/2
NEW 4 TO BOTTOM 40' SHIP HOOK		8:15	10:45	2 1/2
DRILL		10:45	12:00	1 1/4

FUEL USED	CASING REPORT	RAN	ITS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel on Hand 12 01 a.m.						
Fuel Rec'd Today (add)						
TOTAL						
Fuel on Hand 11 59 p.m. (subtract)						
FUEL USED						

EQUIPMENT CHANGES	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME	APPROVED BY OPERATOR'S REPRESENTATIVE	APPROVED BY TOOLPUSHER

COM 42711

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO  
WELL

RIG NO. 22 LOCATION: 2000 Et. II Clark St. Valley Hill, Ill. SEC. 55 TWP. 12N R. 12E  
MILING POINT SHIPPING POINT MILES MOVES

TOUR	M	I	D	N	I	G	H	T	S	DRILL LOG										FIRE													
										From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.		I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly							
TOUR	M	I	D	N	I	G	H	T	S	6462	9	6462	2 1/2	142	24	77	2	2	8	28	105	4	29										
										No.	37	5 7/8	155R	OUT	41552	25	58	229	42														
										MUD	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change							
										WEIGHT	2000				No. 1	PREL. SURVEY	450	450	450	No. 2	PREL. SURVEY					1	40	240					
										VISCOSITY	WATER				MODEL	PREL. SURVEY	68	68	68	MODEL	PREL. SURVEY					2	90						
										GEL	WATER				SIZE	PREL. SURVEY	5 1/2 x 1 1/2			SIZE	PREL. SURVEY					3	90						
										W.L.	F.C.	pH	DESILTER: Hours Op:		U. Flow	O. Flow	SURVEYS		At Feet	Degrees	4	40											
										ADDITIVES: Gelatin 50# Hag Treat 25#										GENERAL:										Weather	Water		
										Drilling Line Record										Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	
										6462	9	6471	2 1/2	140	24	75.21	2	2	8	28	105	4	29										
TOUR	M	I	D	N	I	G	H	T	S	6462	9	6471	2 1/2	140	24	75.21	2	2	8	28	105	4	29										
										No.	37	5 7/8	155R	OUT	21552	12	58	648	45														
										MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change							
										WEIGHT	HABATREAT				No. 1	PREL. SURVEY	475	475	475	No. 2	PREL. SURVEY					1	102	240					
										VISCOSITY	WATER				MODEL	PREL. SURVEY	68	68	68	MODEL	PREL. SURVEY					2	102						
										GEL	WATER				SIZE	PREL. SURVEY	5 1/2 x 1 1/2			SIZE	PREL. SURVEY					3	102						
										W.L.	F.C.	pH	DESILTER: Hours Op:		U. Flow	O. Flow	SURVEYS		At Feet	Degrees	4	102											
										ADDITIVES: CARBON - 50# HABATREAT - 25#										GENERAL:										Weather	Water		
										Drilling Line Record										Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	
										6462	9	6471	2 1/2	140	24	75.21	2	2	8	28	105	4	29										
TOUR	M	I	D	N	I	G	H	T	S	6471	23'	6494	7	1467	63	1																	
										No.	37	5 7/8	155R	OUT	21552	10	58	271	52														
										MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change							
										WEIGHT	HABATREAT				No. 1	PREL. SURVEY	475	475	475	No. 2	PREL. SURVEY	TACKS				1	110	240					
										VISCOSITY	WATER				MODEL	PREL. SURVEY	68	68	68	MODEL	PREL. SURVEY					2	110						
										GEL	WATER				SIZE	PREL. SURVEY	5 1/2 x 1 1/2			SIZE	PREL. SURVEY					3	110						
										W.L.	F.C.	pH	DESILTER: Hours Op:		U. Flow	O. Flow	SURVEYS		At Feet	Degrees	4	110											
										ADDITIVES:										GENERAL:										Weather	Water		
										Drilling Line Record										Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	
										6471	23'	6494	7	1467	63	1																	
TOUR	M	I	D	N	I	G	H	T	S	6471	23'	6494	7	1467	63	1																	
										No.	37	5 7/8	155R	OUT	21552	10	58	271	52														
										MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change							
										WEIGHT	HABATREAT				No. 1	PREL. SURVEY	475	475	475	No. 2	PREL. SURVEY	TACKS				1	110	240					
										VISCOSITY	WATER				MODEL	PREL. SURVEY	68	68	68	MODEL	PREL. SURVEY					2	110						
										GEL	WATER				SIZE	PREL. SURVEY	5 1/2 x 1 1/2			SIZE	PREL. SURVEY					3	110						
										W.L.	F.C.	pH	DESILTER: Hours Op:		U. Flow	O. Flow	SURVEYS		At Feet	Degrees	4	110											
										ADDITIVES:										GENERAL:										Weather	Water		
										Drilling Line Record										Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool	
										6471	23'	6494	7	1467	63	1																	

B O P				Casing Report				FUEL USED				CEMENT RETURNS			
Tested	Elapsed Time	Pressure	Parking & Spot Inspected Date	Crown & Mat's Chkd	Rig Savers Chkd	Kelly Ck'd	Fuel on Hand	Fuel Rec'd	TOTAL	Fuel on Hand	Cement Returns	YES	NO		
							200	0	200	50					

CONSERVATION BOARD COPY

LOCATION Inv Et 21 Black Mt Lesley L5D W SEC 55 TWP 1 RGE W DATE May 14 / 70

MAILING POINT		SHIPPING POINT		MILES MOVED		ROAD CONDITIONS		DAYS FROM SPUD	

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly								
279		7	2 1/2		54.4	435	765	240	29								
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
239	42 1/2			1	450	68											
4 a.m.		6 a.m.		PUMP		12 m.		2 a.m.		4 a.m.		6 a.m.		MOTOR HOURS		Next Oil Change	
450		450		No. 2		PRES. SUKLE		1		90		240					
68		68		MODEL		S.P.M.		2		90							
				150		LINE SIZE		3		90							
U. Flow		O. Flow		SURVEYS		At Feet		4		90							
				At Feet		Degrees		5		70							
				Weather		Water											
Temp.		Bbls															
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool					
401								NEWLINE		570		3400					

REMARKS	TIME		
	START	STOP	INTVL
DRILL	2:00	6:45	4 1/2
SURVEY @ 649	6:45	7:15	30
CHANGE COLLARS	7:15	7:50	35
HOIST	7:50	8:00	10

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly								
75.21		9	2 1/2		54.42	435	765	240	23								
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
648	45			1	475	68											
12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS		Next Oil Change	
415		68		No. 2		PRES. SUKLE		1		106		240					
				MODEL		S.P.M.		2		102							
				150		LINE SIZE		3		102							
U. Flow		O. Flow		SURVEYS		At Feet		4		102							
				At Feet		Degrees		5		78							
Temp.		Bbls															
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool					
581								NEWLINE		750		2700					

REMARKS	TIME		
	START	STOP	INTVL
Finish cut	8:00	10:00	2 00
big service & back to rig	10:00	10:50	50
lay down stand by rig	10:50	11:00	10
sun in	11:00	11:45	45
drilling	11:45	12:00	15
1 Stabilizer @ 36 ft. off bottom.	12:00	4:00	4 00

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly								
06.13		7	2 1/2		54.4	435	765	240	23								
Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.							
271	52			1	475	68											
8 p.m.		10 p.m.		PUMP		4 p.m.		6 p.m.		8 p.m.		10 p.m.		MOTOR HOURS		Next Oil Change	
7575		68		No. 2		PRES. SUKLE		1		110		240					
				MODEL		S.P.M.		2		110							
				150		LINE SIZE		3		110							
U. Flow		O. Flow		SURVEYS		At Feet		4		110							
				At Feet		Degrees		5		86							
Temp.		Bbls															
Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Ft. Left on Spool					

REMARKS	TIME		
	START	STOP	INTVL
Drilling	11:00	11:30	30
SURVEY @ 6494	11:30	11:45	15
RIG SERVICE & BOIS	11:45	12:00	15
CHANGE COLLARS	12:00	12:00	00

FUEL ON HAND 12 01 a.m.		GALS		CASING REPORT		RAN		JTS		CSG		RENTAL EQUIPMENT ON HAND		TRANSFER #	
Fuel Rec'd Today (add)															
TOTAL				TO		KB USED		SAX		CEM					
Fuel on Hand 11:59 p.m. (deduct)				PLUS		PUC DOWN						DAYS FROM SPUD		60	
FUEL USED				CEMENT RETURNS		YES NO						EQUIPMENT CHANGES			

TOTAL COMPANY TIME		TOTAL CONTRACTOR'S TIME	
HRS		HRS	
Approved by Operator's Representative		Approved by Toolpusher	
<i>R. J. ...</i>		<i>R. J. ...</i>	

COM 42710

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO 22 LOCATION IND. ET. 12524 X 2000 TWP 14 S. SEC 23 TWP 14 S. RGE 23  
MAILING POINT \_\_\_\_\_ SPILLING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
6271	12	6271	6	140 <sup>14</sup>	60	2	19	7"	2 3/8	2 3/8	56	174.33	765	12826	

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
37	3 3/4	XSSR	PEN	21552	20	58	48	31			1	450	62				

MUD	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 mn.	2 c.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1 70	240			
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2 70	"			
GEL					LINER SIZE					LINER SIZE					3 70	"			
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:														GENERAL:		Weather:		Water:	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
6271	60	6331	4	140	61	2	19	7"	2 3/8	2 3/8	56.24	125	765	12826	5

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
37	3 3/4	XSSR	OUT	21552	25	58	108	29			1	450	68				

MUD	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1 78	240			
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2 78	"			
GEL					LINER SIZE					LINER SIZE					3 78	"			
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:														GENERAL:		Weather:		Water:	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
6331	62'	6393	6 1/4	142 <sup>14</sup>	61	2	19	7"	2 3/8	2 3/8	56.24	125	765	12826	4

No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
37	3 3/4	XSSR	OUT	21552	25	58	170	35 1/2			1	450	68				

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1 PRES. SURE					No. 2 PRES. SURE					1 86	240			
VISCOSITY					MODEL S.P.M.					MODEL S.P.M.					2 86	"			
GEL					LINER SIZE					LINER SIZE					3 86	"			
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS				
ADDITIVES:														GENERAL:		Weather:		Water:	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & Motor Chk'd	Fuel on Hand 12 01 a.m.	gals.	CASING REPORT	RAN	ITS	CSG	REN TA
Hydril						Fuel Rec'd Today (add)	gals.					
Pipe Rams						TOTAL	gals.					
Blind Rams						Fuel on Hand 11 59 p.m. (deduct)	gals.					
TOTCO RING ON BIT =	7	Boiler Operated	24	Hrs.		FUEL USED	gals.					

CONSERVATION BOARD COPY

LOCATION INC. ETAL WASH & BRACKLEY LSD 4 SEC 35 TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_ DATE March 3 1976

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ DAYS FROM SPUD \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
2 633	19	7"	2 3/8"	2 1/8"	56.24	765	765	11.26	11.26	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
48	21			1	450	68		1206		
4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
4:50	7:20	No. 2	PRES. SURE					1	70	240
6:2	6:8	MODEL	S.P.M.					2	70	"
2	116	LINER SIZE						3	70	"
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4		70		"		
				5		46		"		
				Weather		Water		Temp.		Bbls.
Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				
401						3400				

REMARKS	TIME		
	START	STOP	INTVL
FINISH	1:06	1:20	12
Big service + check BOPs	1:30	1:47	4
Letting circulation	1:55	2:00	4
WALK	2:00	2:00	6

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
819	19	7"	2 3/8"	2 1/8"	56.24	765	765	11.26	11.26	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
108	29			1	450	68		KUN		
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
0	4:50	No. 2	PRES. SURE					1	78	240
2	6:8	MODEL	S.P.M.					2	78	"
6	150	LINER SIZE						3	78	"
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4		78		"		
				5		54		"		
				We		Water		Temp.		Bbls.
Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				
401						3400				

REMARKS	TIME		
	START	STOP	INTVL
Drilling	5:00	4:00	7

DRILLER'S SIGNATURE *[Signature]*

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
419	19	7"	2 3/8"	2 1/8"	56.24	765	765	11.26	11.26	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
170	35 1/2			1	450	68		2066		
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
0	4:2	No. 2	PRES. SURE					1	86	240
3	6:8	MODEL	S.P.M.					2	86	"
6	150	LINER SIZE						3	86	"
U. Flow:		O. Flow:		SURVEYS		At Feet		Degrees		
				4		86		"		
				5		62		"		
				Weather		Water		Temp.		Bbls.
Total Miles	Slip	Feet of Cut	At Miles	Date Slip or Cut	Next Slip	Ft. Left on Spool				
401						3400				

REMARKS	TIME		
	START	STOP	INTVL
Drilling	4:00	4:00	3/4
Big service + check BOPs	4:05	5:00	1/4
Drilling	5:00	3:10	3
WALK	2:00	9:00	1
WALK	1:00	1:00	3

DRILLER'S SIGNATURE *[Signature]*

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	ITS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.						
TOTAL	gals.	TO	KB USED	SAY	CEM		
Fuel on Hand 11:59 p.m. (deduct)	gals.	PLUS					
FUEL USED	gals.	CEMENT RETURNS (YES/NO)					

DAYS FROM SPUD	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME
9		

Approved by Operator's Representative *[Signature]*  
Approved by Toolpusher *[Signature]*

COM 42708

**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIG NO. 22

LOCATION INDIAN HOOK PLANK FLX 150' SEC 33 TWP 100

MAILING POINT

SHIPPING POINT

MILES MOVED

TOUR MIDNIGHT TO 8 AM TOUR 8 AM TO 4 PM TOUR 4 PM TO MIDNIGHT

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly			
6223	12'	6225	32	140	40	200	17	7"	2 1/2	2 1/2	301.24	60	115.4					
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
37	8 3/4"	XSSR	OPEN	21552	12-6	58	12	12			1	430	68					
M.U.D.	2 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change		
WEIGHT					No. 1 PRES. SURE			450	450	No. 2 PRES. SURE					1	46	240	
VISCOSITY					MODEL S.P.M. LINER SIZE			68	68	MODEL S.P.M. LINER SIZE					2	46		
GEL								25	116						3	46		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS			
ADDITIVES:												GENERAL:				Weather		Water
Drilling Line Record												Temp.		Bbls.		Fires		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly			
6235	17'	6252	7 1/4	136	60	2	19	7"	2 1/2	2 1/2	504	60	115.4					
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
37	8 3/4"	XSSR	OUT	21552	12	58	29	10 3/4			1	400	68					
M.U.D.	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT					No. 1 PRES. SURE			450	450	No. 2 PRES. SURE					1	54	240	
VISCOSITY					MODEL S.P.M. LINER SIZE			68	68	MODEL S.P.M. LINER SIZE					2	54		
GEL								51	116						3	54		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS			
ADDITIVES:												GENERAL:				Weather		Water
Drilling Line Record												Temp.		Bbls.		Fires		

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Fr.	Fr. up on Kelly			
6252	71'	6259	3 1/2	136	60	2	19	7"	2 1/2	2 1/2	504	60	115.4					
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	
37	8 3/4"	XSSR	OUT	21552	12	58	36	15			1	430	68					
M.U.D.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change		
WEIGHT					No. 1 PRES. SURE			450	450	No. 2 PRES. SURE					1	62	240	
VISCOSITY					MODEL S.P.M. LINER SIZE			68	68	MODEL S.P.M. LINER SIZE					2	62		
GEL								51	116						3	62		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow:				O. Flow:				SURVEYS			
ADDITIVES:												GENERAL:				Weather		Water
Drilling Line Record												Temp.		Bbls.		Fires		

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown or Mat. Chk. d.	Fuel on Hand 11:01 a.m.	CASING REPORT						
Hydri					Rig Severs Chk. d.	gals.	RAN	TS	CSG	REN A			
Pipe Rams					Chk. d.	Fuel Rec'd Today (add)							
Blind Rams					Chk. d.	TOTAL	gals.	KB USED	SAR	CEM			
TOICO RING ON BIT	27				Chk. d.	Fuel on Hand 11:59 p.m. (add)	gals.	PLUS	FLCC DOWN	A.M. P.M.	DAYS FR		
Barrel Oper.	24				Chk. d.	FUEL USED	gals.	CEMENT RETURNS (YES/NO)		CEMENT CHANGES			

CONSERVATION BOARD COPY

LOCATION IND. E. HUSKY BLACK FLY LSD M SEC 35 TWP RGE W DATE 12/12/12

MAILING POINT SHIPPING POINT MILES MOVED ROAD CONDITIONS DAYS FROM SPUD

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
1	19	7"	2 3/8"	56.124	260	14.54	15.44			
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
12				1	450	68				
4 a.m.	6 a.m.	PUMP		12 m	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		
450	50	No. 2	PRE-SURE	TANVIS				1	46	240
68	66	MODEL	S.P.M.					2	46	
3 x 1/2	50	LINER SIZE		5/8 x 1/2				3	46	
U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees	4	46	
								5	32	
Weather		Water		Temp.		Bbls				

REMARKS	TIME		
	START	STOP	INTVL
FINISH OUT	12:00	1:15	1 1/2
12:30	1:45	1 1/4	
1:15	2:30	1 1/2	
2:15	4:15	2	
4:15	4:30	1/4	
4:30	1:00	2 3/4	
1:15		2 1/2	

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
2	19	7"	2 3/8"	56.124	260	14.54	15.44		24	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
29	10 1/2			1	450	68				KUN
12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		
450	450	No. 2	PRE-SURE					1	54	240
68	68	MODEL	S.P.M.					2	54	
3	150	LINER SIZE		5/8 x 1/2				3	54	
U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees	4	50	
								5	30	
Weather		Water		Temp.		Bbls				

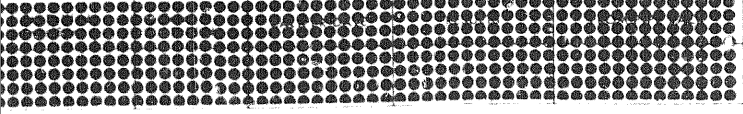
REMARKS	TIME		
	START	STOP	INTVL
Drilling	12:00	12:30	1/2
Survey	12:30	12:45	1/4
Drilling	1:45	1:55	1/2
Drilling	1:55	4:00	2 1/4

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
2	19	7"	2 3/8"	56.124	260	14.54	15.44		24	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
36	15			1	450	68				
8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		
		No. 2	PRE-SURE					1	62	240
		MODEL	S.P.M.					2	62	
		LINER SIZE		5/8 x 1/2				3	62	
U. Flow:		O. Flow:		SURVEYS		At Feet	Degrees	4	62	
								5	38	
Weather		Water		Temp.		Bbls				

REMARKS	TIME		
	START	STOP	INTVL
Drilling	4:00	7:15	3 1/4
Survey	7:15	7:30	1/4
Drilling	8:00	8:00	1/2
Drilling	8:00	10:30	2 3/4
Drilling	10:30	11:45	1 1/2
Drilling	11:45	1:00	1/4

FUEL ON HAND 12:01 a.m.		GALLONS	
Fuel Rev. d Today (add)			
<b>TOTAL</b>			
Fuel on Hand 11:59 p.m. (deduct)			
<b>FUEL USED</b>			

CASING REPORT		RENTAL EQUIPMENT ON HAND	
RAN	ITS	CSG	CEM
AB USED	SAX	PLUG DOWN	A M P M
PLUS			
CEMENT RETURNS (YES/NO)		EQUIPMENT CHANGES	



Approved by Operator's Representative: *[Signature]*  
 Approved by Toolpusher: *[Signature]*

COM 42707



**COMMONWEALTH DRILLING**

DAILY DRILLING LOG  
DIRECTIONS TO WELL

RIS NO **22** LOCATION **I.N.C. Husky Blackfly** LSO **M** SEC **55** TWP **RO**  
M.A.I.N. POINT SHIPING POINT MILES MOVED

TOUR	M	U	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.	Fr. up on Kelly	DRILLING																		
																							From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.				
TOUR	M	U	6126	27			6153	7 1/2	140m	5531	29		19	7'	2 1/2"	856124	935				23	DRILLING																		
			36	8 3/4"	YSSR	OPEN	21554	12m	60	59	13 1/2				1	450	50						DRILLING																	
M U D																						12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn	2 a.m.	4 a.m.	6 a.m.	PUMP		12 mn	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change
WEIGHT																						AIREATED		No. 1		PRES SURE	450	450	450	450	No. 2		PRES SURE	TANKS		1	22	240		
VISCOSITY																						WATER		MODEL		S.P.M.	50	50	50	50	MODEL		S.P.M.	TANKS		2	"	"		
GEL																						500		LINER SIZE			5 1/2	x	16	130		LINER SIZE			5 1/2	x	12			
W.L.																						F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degree	4	"	"	"	"		
ADDITIVES:																						GENERAL:		CALGON 33 25#		FUEL #6		6145 14 1/2		5		210	Weather		Water					
Drilling Line Record																						Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr Left on Spool	FIRES		NIL			
TOUR	M	U	6153	28			6181	7 7/8	140m	5362	63		19	7'	2 1/2"	711	935	162	211	33	DRILLING																			
			36	8 3/4"	YSSR	OPEN	21554	12-14	66	87	30 3/4				1	450	50					DRAG																		
M U D																						8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change
WEIGHT																						AERATED		No. 1		PRES SURE	450	450	450	450	No. 2		PRES SURE	TANKS		1	30	240		
VISCOSITY																						WATER		MODEL		S.P.M.	50	50	50	50	MODEL		S.P.M.	TANKS		2	30	"		
GEL																						500		LINER SIZE			5 1/2	x	16	130		LINER SIZE			5 1/2	x	12			
W.L.																						F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degree	4	30	"	"	"		
ADDITIVES:																						GENERAL:		CALGON 50 lbs		HABATREX 10 25#		6144		5		6	Weather		Water					
Drilling Line Record																						Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr Left on Spool	FIRES		NIL			
TOUR	M	U	6181	42			6223	6 1/4	135	5594	01		19	7'	2 1/2"	222	935	162	211	33	DRILLING																			
			36	8 3/4"	YSSR	OUT	21554	10-20	65-70	129	27				1	450	50					I																		
M U D																						4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP		4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS		Next Oil Change
WEIGHT																						AERATED		No. 1		PRES SURE	450	450	450	450	No. 2		PRES SURE	TANKS		1	28	240		
VISCOSITY																						WATER		MODEL		S.P.M.	50	50	50	50	MODEL		S.P.M.	TANKS		2	28	"		
GEL																						500		LINER SIZE			5 1/2	x	16	130		LINER SIZE			5 1/2	x	12			
W.L.																						F.C.	pH.	DESILTER: Hours Op:		U. Flow:		O. Flow:		SURVEYS		At Feet	Degree	4	28	"	"	"		
ADDITIVES:																						GENERAL:		CALGON 50 lbs		HABATREX 10 25#		6257 12		5		14	Weather		Water					
Drilling Line Record																						Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fr Left on Spool	FIRES		NIL			
B.O.P.		Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown a mat. Chk d	Rig Savers Chk d	Keils Cork Chk d	Fine Equip Chk d	Fuel on Hand 12:01 a.m.	gals.	CASING REPORT		RAN	ITS	CSG	VENT																							
Hydril										Fuel Res. d Today (add)	gals.	TOTAL		gals.	AB USED	SAY	CEM																							
Pipe Rums										Fuel on Hand 11:58 p.m. (add)	gals.	TOTAL		gals.	PLUG DOWN	A.M	P.M																							
Blind Rums										FUEL USED	gals.	EQUIPMENT RETURNS		YES	NO	EQUIPMENT CHANGES																								

LOCATION **I.N.C. Husky Blackfly** LSD **M** SEC **55** TWP **\_\_\_\_\_** RGE **\_\_\_\_\_** W **\_\_\_\_\_** DATE **MARCH 11** 19**72**

MAILING POINT **\_\_\_\_\_** SHIPPING POINT **\_\_\_\_\_** MILES MOVED **\_\_\_\_\_** ROAD CONDITIONS **\_\_\_\_\_** DAYS FROM SPUD **\_\_\_\_\_**

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
31	29	19	7"	2 7/8"	5612 1/4	935	768	2133	23	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
59	13 1/2			1	450	50		RUNNING		

REMARKS	TIME		
	START	STOP	INTVL
DRILLING	1200	1430	4 1/2
RESURVEY @ 6176 RIG SERI	1430	500	1/2
DRILLING	500	800	3

4 a.m.	6 a.m.	PUMP	12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS	Next Oil Change	
430	450	No 2					22	240	
50	50	MODEL					"	"	
16		LINER SIZE	5 1/2" X 12				"	"	
U. Flow:		O. Flow:		SURVEYS		At Feet		Degree	
5#		FUEL #6		645		14 1/4		5	210
25#									

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

Weather: \_\_\_\_\_ Water: \_\_\_\_\_ Temp: \_\_\_\_\_ Bbls: \_\_\_\_\_

DRILLER'S SIGNATURE: *H. Harts*

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
2	63	19	7"	2 7/8"	5612 1/4	935	768	2133	23	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
87	30 1/2			1	450	50		DRAG		

REMARKS	TIME		
	START	STOP	INTVL
DRILL	100	130	6
RIG SERI	130	145	1 1/2
DRILL	145	155	10

12 noon	2 p.m.	PUMP	8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS	Next Oil Change
450	450	No 2					30	240
50	50	MODEL					"	"
6		LINER SIZE	5 1/2" X 12				"	"
U. Flow:		O. Flow:		SURVEYS		At Feet		Degree
				76		14 1/4		5

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

Weather: \_\_\_\_\_ Water: \_\_\_\_\_ Temp: \_\_\_\_\_ Bbls: \_\_\_\_\_

DRILLER'S SIGNATURE: \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly	
94	01	19	7"	2 7/8"	5612 1/4	935	768	2133	23	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
129	27			1	450	50		1	2	I

REMARKS	TIME		
	START	STOP	INTVL
Drilling	400	445	45
Drilling	445	500	55
Drilling	500	515	15

8 p.m.	10 p.m.	PUMP	4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS	Next Oil Change
450	450	No 2					39	240
50	50	MODEL					38	"
6		LINER SIZE	5 1/2" X 12				38	"
U. Flow:		O. Flow:		SURVEYS		At Feet		Degree
				62		14 1/2		5

Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool

Weather: \_\_\_\_\_ Water: \_\_\_\_\_ Temp: \_\_\_\_\_ Bbls: \_\_\_\_\_

DRILLER'S SIGNATURE: \_\_\_\_\_

Fuel on Hand 12 01 a.m.	gals.	CASING REPORT	RAN	JTS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Rec'd Today (add)	gals.						
TOTAL	gals.						
Fuel on Hand 11 39 p.m. (deduct)	gals.						
FUEL USED	gals.						
CIMENT RETURNS (YES/NO)		PLUG DOWN		A.M. P.M.		DAYS FROM SPUD	
						57	
EQUIPMENT CHANGES		TOTAL COMPANY TIME		TOTAL CONTRACTOR'S TIME		HRS	
		HRS		HRS		HRS	
Approved by Operator's Representative		Approved by Toolpusher					
<i>K. Stable</i>		<i>Stable</i>					

COM 42706

COMMONWEALTH DRILLING

DAILY DRILLING LOG  
DIRECTIONS TO WELL

WELL NO 22 LOCAT ON INC HUSKEY BLACKFLY SEC M SEC 55 W 1/4 P 3E  
MAILING POINT SHIPPING POINT

From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub Wt	C.S. Pt	Ft up on Kelly		
6094					58	2	19	7"	2 1/8	55124	544	626	2133	1032			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
36	8 3/4 X 55R	OPEN		21554													

WAIT ON

M U D	12 mn	2 am	4 am	6 am	PUMP	12 mn	2 am	4 am	6 am	PUMP	12 mn	2 am	4 am	6 am	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1	PREL. SURVEY				No. 2	PREL. SURVEY				1	194	240		
VISCOSITY					MODEL	S.P.M.				MODEL	S.P.M.				2	"	"		
GEL					LINE SIZE					LINE SIZE					3	"	"		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow				O. Flow				SURVEYS		4	"	"
ADDITIVES:												GENERAL: FUEL # 5 1/2				5		186	"
												Weather		Water		Temp.		Bb.	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet Slip	Feet Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
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FIRES

From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub Wt	C.S. Pt	Ft up on Kelly		
6094							17	7"	2 1/8	55124	544	626	2133	1032			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
36	8 3/4 X 55R	OPEN		21554													

WAIT ON  
MIST FROM  
BOTTOM

M U D	8 am	10 am	12 noon	2 pm	PUMP	8 am	10 am	12 noon	2 pm	PUMP	8 am	10 am	12 noon	2 pm	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1	PREL. SURVEY				No. 2	PREL. SURVEY				1	6	240		
VISCOSITY					MODEL	S.P.M.				MODEL	S.P.M.				2	"	"		
GEL					LINE SIZE					LINE SIZE					3	"	"		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow				O. Flow				SURVEYS		4	"	"
ADDITIVES:												GENERAL:				5		194	"
												Weather		Water		Temp.		Bb.	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet Slip	Feet Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
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FIRES

From	Footage	To	Hrs on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No	O.D.	I.D.	Length	Air Wt	Sub Wt	C.S. Pt	Ft up on Kelly		
6094	32	6126	6	148m	59	25	17	7"	2 1/8	55124	544	626	2133	1032			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
36	8 3/4 X 55R	OPEN		21554	110	32	6				1	400	68				

F.N. 50 W  
RUNNING

M U D	4 pm	6 pm	8 pm	10 pm	PUMP	4 pm	6 pm	8 pm	10 pm	PUMP	4 pm	6 pm	8 pm	10 pm	MOTOR HOURS	Next Oil Change			
WEIGHT					No. 1	PREL. SURVEY				No. 2	PREL. SURVEY				1	14	240		
VISCOSITY					MODEL	S.P.M.				MODEL	S.P.M.				2	"	"		
GEL					LINE SIZE					LINE SIZE					3	"	"		
W.L.	F.C.	pH.	DESILTER: Hours Op:				U. Flow				O. Flow				SURVEYS		4	"	"
ADDITIVES:												GENERAL:				5		302	"
												Weather		Water		Temp.		Bb.	

Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Feet Slip	Feet Cut	At Miles	Date Slip or Cut	Next Slip	Ft Left on Spool
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FIRES

B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown & Mat. Chk'd	Fuel on Hand 12 Ct a m	gals.	CASING REPORT		RAN	TS	CSG	REMARKS
Hydral					Rig Safety Chk'd	Fuel Rec'd Today (add)	gals.	TOTAL		USED	SAF	CEM	
Pipe Rams					Kelly Cook Chk'd	Fuel on Hand 12 P.M. (add)	gals.	FUEL USED		PLUS	DOWN	AW	DAYS FROM
Blind Rams					Ft. Face Chk'd			CEMENT RETURNS		YES	NO		

TOTOC RING ON BIT #	Boiler Operated	Hrs.	Fuel Face Chk'd	FUEL USED	CEMENT RETURNS	YES	NO
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2 LOCATION **INC Husky BLACKFLY** LSD **M** SEC **55** TWP **\_\_\_\_\_** RGE **\_\_\_\_\_** W **\_\_\_\_\_** DATE **MARCH 10** 20**10**

MAILING POINT \_\_\_\_\_ SHIPPING POINT \_\_\_\_\_ MILES MOVED \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly	
2		19	7"	2 1/8"	56124	554	626	2133	1032	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
PUMP		12 mn	2 a.m.	4 a.m.	MOTOR HOURS		Next Oil Change			
No. 2	PRES. SURE			1	194	240				
MODEL	S.P.W.	TANDS		2	"	"				
U. Flow	O. Flow	SURVEYS		3	"	"				
15 1/2		At Feet		4	"	"				
		Degrees		5	186	"				
Total Miles		Slip	Feet at Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Left on Spool			

REMARKS  
 WAIT ON KELLY  
 TIME  
 START 1200 STOP 800 NTVL 8  
 DRILLER'S SIGNATURE *M. Heist*

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly	
		19	7"	2 1/8"	56124	554	626	2133	1032	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
PUMP		12 mn	2 a.m.	4 a.m.	MOTOR HOURS		Next Oil Change			
No. 2	PRES. SURE			1	194	240				
MODEL	S.P.W.			2	"	"				
U. Flow	O. Flow	SURVEYS		3	"	"				
		At Feet		4	"	"				
		Degrees		5	194	"				
Total Miles		Slip	Feet at Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Left on Spool			

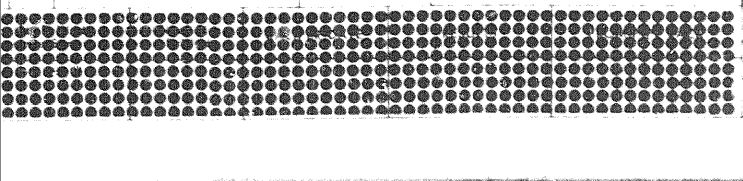
REMARKS  
 FIRES  
 DRILLER'S SIGNATURE *M. Heist*

Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly	
00.25		19	7"	2 1/8"	56124	554	626	2133	1032	
Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
32	6			1	400	68		RUNNING		
PUMP		4 p.m.	6 a.m.	8 p.m.	MOTOR HOURS		Next Oil Change			
No. 2	PRES. SURE			1	19	240				
MODEL	S.P.W.			2	"	"				
U. Flow	O. Flow	SURVEYS		3	"	"				
		At Feet		4	"	"				
		Degrees		5	302	"				
Total Miles		Slip	Feet at Cut	At Miles	Date Slip or Cut	Next Slip	Fr. Left on Spool			

REMARKS  
 FINISH IN  
 SURVEYED  
 REAR CIRCUIT - 17 TO BOTTOM  
 LAIHL  
 SURVEY  
 DRILLING  
 STABILIZER @ 15' - 45' - 105'  
 AT CH BOTTOM  
 DRILLER'S SIGNATURE

Fuel on Hand 12:01 a.m.	gals.	CASING REPORT	RAN	TS	CSG	RENTAL EQUIPMENT ON HAND	TRANSFER #
Fuel Ret'd Today (load)	gals.						
TOTAL	gals.						
Fuel on Hand 1:50 p.m. (spool)	gals.						
FUEL USED	gals.						
		CEMENT RETURNS	YES	NO			

REMARKS  
 DAYS FROM SPUD 56  
 TOTAL COMPANY TIME  
 TOTAL CONTRACTOR TIME  
 Approved by Operator's Representative *A. J. ...*  
 Approved by Toolpusher *J. ...*



COM 42705