

TOUR REPORT

CONTRACTOR **GP** RIG NO **15**
 LSD **N66** SEC **42** TWP **W137** R₂₀ W

FIELD **Wildcat** WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 1** 1971

SORC

MUD CHEMICALS

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO. 59	558625	FT	NO. 59262093	FT	NO. 59262093	FT		
SINGLE	D.P.	NO.		FT	1	FT	1	FT		
X-OVER SUB	O.D.			FT		FT		FT		
OTHER	O.D.			FT		FT		FT		
DRILL COLLARS	O.D.	7	16	FT	49076	FT	49076	FT	49076	FT
DRILL COLLARS	O.D.	7	5795	FT	462	FT	462	FT	462	FT
REAMER	O.D.	7	1200	FT	1200	FT	1200	FT	1200	FT
STABILIZER	O.D.	7	300	FT	300	FT	300	FT	300	FT
JARS				FT		FT		FT		
BUMPER SUB				FT		FT		FT		
BIT OR CORE BARREL				FT		FT		FT		
TOTAL D.P. & TOOLS			609663	FT	612851	FT	612851	FT		
KELLY DOWN (BELOW R.B.)			2437	FT	2222	FT	2722	FT		
DEPTH OF TOOLS			612100	FT	615053	FT	615553	FT		
TOUR		MORNING TOUR			DAYLIGHT TOUR		AFTERNOON TOUR			
DEPTH END OF TOUR		6121	FEET		6150	FEET	6155	FEET		
DEPTH START OF TOUR		6095	FEET		6121	FEET	6150	FEET		
FOOTAGE DRILLED		26	FEET		29	FEET	3	FEET		

TOUR
 Keltan
 Gel
 Caustic
 Water

TOUR
 Keltan
 Gel
 Caustic
 Dewicide B

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	s.p.m. 64 p.s.i. 550	64 550	64 550	64 550	64 550	64 550						
ROTARY SPEED	R.P.M. 38	38	38	38	38	38						
WEIGHT ON BIT	M lbs. 25	25	28	28	28	28						
MUD WEIGHT	lb/gal 9.3	9.3	9.3	9.3	9.3	9.3						
VISCOSITY	sec/qt 48	48	47	47	47	47						
W.L./F.C.	c.c./32nd 9.2	9.2	9.2	9.2	9.2	9.2						
p.H.	9.0	9.0	9.0	9.0	9.0	9.0						
MUD LEVEL IN TANKS	Ft.-Ins.											

Dosimeter
 Time
 12:00 AM
 2:00 AM
 4:00 AM
 6:00 AM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	TOTAL BIT FOOTAGE	FT./HR.	BIT CONDITION
17	8 3/4	739012	M 88 Sec	3/8 1/16	23	6078	6155	77	3.4	2-1-1
		776751	REED SC501	3/8		6155				

Trip at
 Land down
 Picked up

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT											
					Time	8:00 AM	Alk.	0.1								
					PREFLOW	mins	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Mud Wt	9.3	Int. Gel	4	10 Min Gel	13
					FROM	I.S.I.	mins	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Visc	49	W.L.F.C.	9.6/2	
					TO	V.O.	mins	I.S.I.P.	p.s.i.	G.T.S.	p.s.i.	A.V.	20	p.H.	9.0	
					Recovery	F.S.I.	mins	F.S.I.P.	p.s.i.	F.T.S.	p.s.i.	P.V.	13	Solid	7.5	
					HOURS	RECOVERY						Y.P.	14	C.A. p.p.m.	20	
														C.L. p.p.m.	100	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A Skinner		E Krawchuk	Kind	Depth	Reading
DERRICKMAN	M Chauski	L Whiting	Glen Long	TOTCO	6078	1 1/4
HELPER	P Kugel	O Mearns	Brian Anderson	TOTCO	6155	1 1/4
HELPER	V Kugel	J Wandler	S. J. Jansen			
HELPER	W Woyciatt	G JACOBSON	R Jansen			
FIREMAN						
TOOL PUSHER	Woyciatt					

Christensen

15

SORC W M Shutter OK YT 022

MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
19/1		18 ⁰⁰	4 ⁴⁵	DRILL
NOON TOUR		4 ⁴⁵	5 ⁰⁰	P.G. SW - CHECK BSR
20 93	FT	5 ⁰⁰	8 ⁰⁰	DRILL
	FT			
	FT			
	FT			
90 76	FT			
4 62	FT			
12 00	FT	8 ⁰⁰	11 ⁴⁵	DRILL
3 00	FT	11 ⁴⁵	12 ⁰⁰	SEWING CHECK BSR
	FT	12 ⁰⁰	11 ⁰⁰	DRILL
	FT			
	FT			
28 21	FT			
27 22	FT			
33 53	FT	11 ⁰⁰	5 ⁴⁵	DRILL
N TOUR		5 ⁴⁵	6 ⁰⁰	SURVEY
35	FEET	6 ⁰⁰		HOIST BIT #17 @ 6155
30	FEET			CHECK #1 PUMP
3	FEET			MAKE UP BIT TRIP IN
			12 ⁰⁰	CHANGED SINC
HOURS				
0 00 P.M.	12 00 P.M.			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Dosimeter	Underflow	Section	Discharge	Rate
Time	0			1 gal/25 sec
12 ⁰⁰ AM	9.8	9.3	9.3	1 gal/35 sec
2 ⁰⁰ AM	10.0	9.3	9.3	1 gal/20 sec
4 ⁰⁰ AM	10.0	9.3	9.3	1 gal/30 sec
6 ⁰⁰ AM	10.1	9.3	9.3	

CONDITION

1 Trip at 6155 to change bit

Laid down Christensen Stabilizer #454

Picked up Christensen Stabilizer #453 - 42' above bit.

W.P.S. REPORT

Air 0.1

Int. Gel 4

10 Min. Gel 13

W.L.P.L. 9.6/2

pH 9.0

Solid 7.5

CAI ppm 3.0


CL ppm 15.0

RECORD

Both	Reading
8	1 1/4
5	1 1/4

Christensen Stabilizer #454 12 1/4 hrs Cumulative 419 1/4 hrs

" " 453 " 336 1/4 hrs


 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G P DOLLING** RIG NO **15**

FIELD **Winochet** WELL NAME

LSD **N66** SEC **17** TWP **W 177** Rng **20** W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 28 1971**

3020
MUD CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 58		245764 FT
SINGLE D.P.	NO 2	555464 FT	
X OVER SUB O.D.			300 FT
OTHER O.D.			
DRILL COLLARS 7 O.D.	16	49076 FT	49076 FT
DRILL COLLARS 7 O.D.	5 NO 1	462 FT	462 FT
REAMER 7 O.D.	5 NO 1	1200 FT	1200 FT
STABILIZER 7 O.D.	KIND	300 FT	
JARS	KIND		
BUMPER SUB	KIND		
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	606502 FT		606502 FT
KELLY DOWN (BELOW R.B.)	1098 FT		3027 FT
DEPTH OF TOOLS	606500 FT		609524 FT

TOUR 1
GOL 6
KOL 16
CRUST 5
ROWS OF 3
WATER 5

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	6076 FEET		6092 FEET
DEPTH START OF TOUR	6052 FEET		6076 FEET
FOG, FAGE DRILLED	24 FEET		19 FEET

TOUR 2
WATER 5
DOWN 1
KELLY 1
GOL 2

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	6" 157	6" 157	6" 157	6" 157					6" 170	6" 170	6" 170	
ROTARY SPEED R.P.M.	38	38	38	38					38	38	38	
WEIGHT ON BIT M lbs.	40	40	40	40	TRIP				25	25	25	
MUD WEIGHT lb.gal	9.3	9.3	9.3	9.3								
VISCOSITY sec.qt	42	41	42	42								
W.L.F.C. c.c. 32nd	10.5	10.5	10.5	10.5								
p.H.	9.0	9.0	9.0	9.4								
MUD LEVEL IN TANKS Ft. Ins												

TOUR 3
WATER 5
DOWN 1
KELLY 1
GOL 2
Time
2.5
4" H.M.
6" H.M.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
16	8 3/4	25735	H.W. x 55R	3/16 1/8	13 1/2	6032	6078	46	5-2-1

Trip at 6078
up M.E.T.

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	FHP	ps	FHP	ps	Time 9:30 AM	AK Trace
FROM		ISI	mins	FHP	ps	FHP	ps	Mud Wt 9.3	Int. Gel 2
TO		VO	mins	ISI	ps	GTS	ps	Visc 42	W.L.F.C. 10
Recovery		FSI	mins	FSI	ps	FTS	ps	AV 16.5	pH 9.0
HOURS		RECOVERY			ps		ps	PV 11	Spd 7.5
					ps		ps	YP 11	CA ppm 30
									CL ppm 110

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	A Skinner		A Kravchuk
DERRICKMAN	M. Ch...	LES WHITING	G Lang
HELPER	U Vogel	R McAusg	Brian Anderson
HELPER	W. Wagstair	I Wandler	Jim ...
		G Jacobson	R. ...

Christerson S

SOPC Wm Shaffer 64-1" O-22

1971		MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
IN TOUR	FT	Amount				
TOUR 1						
7	64	600	12"	7"		DRILL
		100	7"	7"		LOGS - CHECK B.O.P
		50	7"	8"		DRILL
		10				
		50 BBL				
TOUR 2						
			800	915		DRILL
			915	930		CROP SURVEY
			930			BLOW KELLY TAKE OFF HOSE
						HOIST BIT 16 @ 6078 (Blind Rams
						TRIP IN
TOUR 3						
			400	430		FINISH IN
		50 BBL	430			STEMM KELLY AND HOSE
		10 LB		600		CHEAN TO BIT 90 FT
		5 LB	600	1200		DRILL
		100 LB				
		200 LB				

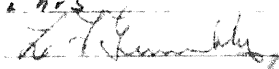
CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Time	inflow	Discharge	Suction	Rate Per GAL
2:00 AM	10.4	9.2	9.3	1 GAL / 45 SEC
4:00 AM	10.6	9.7	9.3	1 GAL / 60 SEC
6:00 AM	10.4	9.3	9.3	1 GAL / 55 SEC

Trip at 6078 to check bit #16 - Condition 6-2-1, picked up M.B.T. and run in

REPORT
Trace
Gel 2
Min Gel 2
L.F.C. 10
9.0
7.5
ppm 30
ppm 150
ORD
Reading

Christensen Stabilizer #454 14 1/2 hrs Cumulative 402 hrs
 " #453i not in string " 336 hrs


 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**
 LSDN. 66° SEC 42 TWP. 137° R. 20 W

5030 W.M.

FIELD **WILCOAT** WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 27 1971**

MUD CHEMICALS
 WATER 5
 MARIAN 7
 GEL 2
 DOWS 2

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR					
STANDS	DP	NO 58	5496	07	FT	NO			FT	NO 58	5526	02	FT
SINGLE	DP	NO			FT	NO			FT	NO 1			FT
X OVER SUB	OD			300	FT			300	FT			300	FT
OTHER	OD				FT				FT				FT
DRILL COLLARS	7" OD	16	4907	6	FT		4907	6	FT		4907	6	FT
DRILL COLLARS	7" OD	NO	462		FT	NO	462		FT	NO	462		FT
REAMER	7" OD	KIND	1200		FT	KIND	1200		FT	KIND	1200		FT
STABILIZER	OD				FT				FT				FT
JARS		KIND			FT	KIND			FT	KIND			FT
BUMPER SUB		KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL DP & TOOLS			6003	41	FT				FT		6033	40	FT
KELLY DOWN (BELOW R.B.)			285	9	FT				FT		192	7	FT
DEPTH OF TOOLS			6032	00	FT				FT		6052	62	FT

TOUR
 TOUR
 TOUR

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	6032 FEET		6052 FEET
DEPTH START OF TOUR	6012 FEET		6032 FEET
FOOTAGE DRILLED	20 FEET		20 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	64 1500	61 1350							64 1300			
ROTARY SPEED	31	55							38			
WEIGHT ON BIT	30	30							35-40			
MUD WEIGHT	9.2	9.3										
VISCOSITY	44	45										
WLFC	11.6 2	11.6 2										
pH	9.5	9.5										
MUD LEVEL IN TANKS												

TRIPPING

Time 12:00 pm 2:00 am

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	FT HR	BIT CONDITION
15	8 3/4	912036	Security S-88	2 1/2 - 1/2		5942	6032	90	20 1/4	6-5-1
16	8 3/4	85735	HW 2 1/2 S	2 1/2 - 1/4		6032				

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	AM	PM	AK
TYPE		PREFLOW	mins	IHP	ps	FFP	ps	
FROM		ISI	mins	FHP	ps	FFP	ps	Mud Wt
TO		VO	mins	ISIP	ps	GTS	ps	Visc
Recovery		FSI	mins	FSIP	ps	FTS	ps	A V
HOURS		RECOVERY						P V

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	A. SKINICK		ERKAWICK			
DERRICKMAN	M. CHENSKI	LES WHITING	Z LONG	Total	6032	1 1/2'
HELPER	V. VOGEL		D. MICKLAIG			
HELPER	V. VOGEL	J. WANDLER	R. JURNAN			
HELPER	W. WAGSTAFF	G. JACKSON	G. JALAN			
FIREMAN						
PUSHER						

S. B. C. Wm. SHAEFFER CKIT 0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971		MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
ON TOUR	FT	Kind	Amount			
6 02	FT	Water	500 Bbls	12 ⁰⁰	3 ⁰⁰	DRILL
	FT	MALZAN	75 ⁰⁰	3 ⁰⁰	3 ¹⁵	See Rig CHECK B.O.P
3 00	FT	GEL	200 ⁰⁰	3 ¹⁵	5 ⁰⁰	DRILL
	FT	DOWSOL	2.90	5 ⁰⁰	5 ⁰⁰	Work on Pump
	FT			5 ⁰⁰	7 ⁰⁰	DRILL
0 26	FT			7 ⁰⁰	7 ⁰⁰	SURVEY
4 65	FT			7 ⁰⁰	8 ⁰⁰	Blow Kelly take off Horse Tail
2 00	FT					@ 6032
	FT	TOUR 2		8 ⁰⁰	11 ⁰⁰	HOIST
	FT			11 ⁰⁰	11 ⁰⁰	Service tele drift
	FT			11 ⁰⁰		Sea Rig Close Blind Rams. CHECK Rig
	FT			12 ⁰⁰	13 ⁰⁰	SAVERS. Kelly Cock.
3 40	FT			1 ⁰⁰	1 ⁰⁰	RUN IN D.C
9 27	FT			2 ⁰⁰	2 ⁰⁰	SLIP AND OUTLINE
2 42	FT			4 ⁰⁰	4 ⁰⁰	RUN IN PIPE
	FT	TOUR 3		4 ⁰⁰	4 ¹⁰	FINISH IN
2	FEET			4 ¹⁰	4 ²⁰	Rig SERV
2	FEET			4 ²⁰		STEAM OUT KELLY AND HOSE
0	FEET				7 ³⁰	NIKE SANG UP BRACK GIRL
	FEET			7 ³⁰	12 ⁰⁰	CLEAN TO BTM 93 FT
	FEET					DRILLING

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Time	Under Flow	DISCHARGE	Suction	Rate Per Gal.
12 ⁰⁰ P.M.	10.6	9.3	9.3	16 GAL / 555.0
2 ⁰⁰ P.M.	10.6	9.3	9.3	" "

Full on bottom

Temp at 6032 - check back - ...
to ... at 13⁰⁰ on pump

REPORT

at Gel
D Min. Gel

L F C

H

A. ppm
L. ppm

CORD

Reading

142

Change ... 45.4 ...
45.3 ... 330 ...

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP** RIG NO **15**
 LSD **N 66° SEC 42' TWP W 137° Rge 20'** W

50130

FIELD **YUKON** WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

19

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO 57	5410086 FT	NO 57	543260 FT	NO	546428 FT		
SINGLE	DP	NO		NO 1					
X OVER SUB	OD				300 FT		300 FT		
OTHER	OD								
DRILL COLLARS	OD								
DRILL COLLARS	7 OD	NO 16	49076 FT	NO	49076 FT	NO	49076 FT		
REAMER	7 O.D.	KIND	1200 FT	KIND	1200 FT	KIND	1200 FT		
STABILIZER	7 O.D.	KIND	462 FT	KIND	462 FT	KIND	462 FT		
JARS		KIND		KIND		KIND			
BUMPER SUB		KIND		KIND		KIND			
BIT OR CORE BARREL									
TOTAL D.P. & TOOLS			590824 FT		593998 FT		597164 FT		
KELLY DOWN (BELOW R.B.)			3422 FT		4122 FT		4132 FT		
DEPTH OF TOOLS			594246 FT		598130 FT		601288 FT		

TOUR
 TOUR
 Caustic

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		5981 FEET	6012 FEET
DEPTH START OF TOUR	5942 FEET	5942 FEET	5981 FEET
FOOTAGE DRILLED		39 FEET	31 FEET

TOUR
 Caustic
 Plaster

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP						1		54/120				
ROTARY SPEED						48	48	48				
WEIGHT ON BIT						3000	80	30				
MUD WEIGHT												
VISCOSITY						3						
W.L.F.C												
p.H												
MUD LEVEL IN TANKS												

Trip at 59
 Double Turn

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT CONDITION
15	8 7/8"	91206	Security SBB	26-16		5942			

2.1 M

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	IHP	psi	IFP	psi	Time 8:30 PM	AK 0.1
FROM		ISI	mins	FHP	psi	FFP	psi	Mud Wt 9.4	Int Gel 1 10 Min 4
TO		VO	mins	ISIP	psi	GTS	psi	Visc 40	W.F.C 14.0/2
Recovery		F.S.I	mins	F.S.I.P	psi	FTS	psi	A.V 175	pH 9.5
HOURS		RECOVERY						P.V 12	Sand - 9
								Y.P. 11	CA ppm 20 CL ppm 5000

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. SKINNER		E. KRAWCHUCK	Kind	Depth	Reading
DERRICKMAN	M. CHANSKI		G. LONG	Int G	5942	1.314
HELPER	P. UOGAL	L. WHITING	D. MACRAIG	Total	5981	1.314
HELPER	V. UOGAL	J. WANDLER	R. J. JAMES			
HELPER	W. WASTAFF	G. JACOBSON	J. JAMES			
FIREMAN						
TOOL PUSHER						

50130 WM Shaeffer CK YT 0-22

MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR		12"	2"	Double measure out
428 FT		2"	3"	Draw Close Line Rain Seal Rig Check all
300 FT		3"	5"	CHECK BRIDGE Pins & Kelly Cock.
074 FT		5"	6"	Run in
200 FT		6"	8"	THROW Kelly Hose
463 FT				FILL Pipe Clean 132' to Bottom
				Run in last 25'
166 FT		8"	8"	FINISH Reaming to Bottom
122 FT	Caustic 100#	8"	11:00	DRILL
288 FT		11:00	11:15	SEAL RIG CHECK SUPPLY
TOUR		11:15	4:00	DRILL
2 FEET	Caustic 100#	4:00	4:15	RIG SERV PIPE RUNNERS
1 FEET	Plaster 250#	4:15	5:00	WIRELINER SURVEY
1 FEET		5:00	5:15	WORK ON PUMP
		5:15	11:30	DRILL
		11:30	11:45	TELEDRIFT
		11:45	12:00	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Trip out 5942 to change bit.

Double Tally out Board Tally 5949.46

S.L.M 5949.11

DITH 0.35 No Corrⁿ made

CONDITION 2 P.M. 10 2 gal/min

REPORT

K 0.1
t Gel 1
Min. Gel 4
LFC 14.0/2
H 9.5
Solid x 9
A. p.p.m. 30
L. p.p.m. 5100

CORD

h Reading
2 1 3/4
1 1 3/4

Signature Company Engineer

TOUR REPORT

CONTRACTOR **G.P. DRLG** RIG NO **15**

FIELD **WILDCAT**

WELL NAME **SHARPER** LSD **N 66° SEC 42' TWP 137°** ROR **20'** W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

F 113 25 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO. 56	5305	92 FT	NO. 57	5410	86 FT	NO. 57	5400	96 FT
SINGLE	D.P.	NO. 1	3158	FT	NO		FT	NO		FT
X OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	7 O.D.	16	490	76 FT		490	76 FT		490	76 FT
DRILL COLLARS	7 O.D.	16	1200	FT	NO	1200	FT	NO	1200	FT
REAMER	7 O.D.	16	462	FT	KIND	462	FT	KIND	462	FT
STABILIZER	O.D.			FT	KIND		FT	KIND		FT
JARS				FT	KIND		FT	KIND		FT
BUMPER SUB				FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			5844	88 FT		5918	24 FT		5908	24 FT
KELLY DOWN (BELOW R.B.)			3412	FT		276	FT		3432	FT
DEPTH OF TOOLS			5879	00 FT		5921	00 FT		5942	46 FT

TOUR
100' KELZAN
50' CAUSTIC
TOUR
KELZAN
TOUR
KELZAN

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	5879 FEET	5921 FEET	5942 FEET
DEPTH START OF TOUR	5844 FEET	5879 FEET	5921 FEET
FOOTAGE DRILLED	35 FEET	42 FEET	21 FEET

TOUR
KELZAN

	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	63 1700	63 1700	63 1700	63 1700	63 1700	63 1700	63 1700	63 1700				
ROTARY SPEED	55	55	55	55	55	55	55	55				
WEIGHT ON BIT	30	30	30	30	30	30	30	30				
MUD WEIGHT	9.4	9.4	9.3	9.3	9.3	9.3	9.3	9.3				
VISCOSITY	35	35	35	35	35	36	36	38				
W.L.F.C.	11.8 2	11.8 2	11.8 2	11.8 2	11.8 2	11.8 2	11.8 2	11.8 2				
p.H.	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5				
MUD LEVEL IN TANKS												

12:00 AM
2:00 AM
4:00 AM
6:00 AM
8:00 AM
10:00 AM
12:00 PM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 3/32	TOTAL HOURS	FROM	TO	TOTAL FEET	FT HR	BIT CONDITION
14	8 3/4	779160	ROUND SCMS	3/16	59 3/4	5829	5942	313	5.2	3 - 7 - 0 (1/4")

2:00 AM
Circular
Positive
Underflow

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT					
TYPE			PREFLOW	mins	FHP	psi	FPP	psi	Time 5:30 PM	Alk 0.1
FROM			I.S.I	mins	FHP	psi	FPP	psi	Mud Wt 9.5	Int Gel 2
TO			V.O.	mins	I.S.I.P	psi	GTS	psi	Visc 37	W.L.F.C. 12.4/2
Recovery			F.S.I	mins	F.S.I.P	psi	F.T.S	psi	A.V	pH 9.0
HOURS			RECOVERY						P.V 9	Solid 9

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	A. CHAMBERS	A. SKIN	E. KRAWCHOK	T.I.D	5850	1°
BERRICKMAN	M. CHMINSKI	L. WHITING	J. BERRY	T.O	5886	1°
HELPER	G. HABIB	P. VOGEL	D. McWain	W.L	5891	2°
HELPER	V. JAGEL	J. WARDEN	J. BRADY	T.O	5917	1°
HELPER	W. WABSTAFF	G. JACOBSON	Robert J. ...			
REMAN						
TOOL PUSHER						

Christensen

503C SHARPER CKYT. 0-66

1971		MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
DATE	TIME	Kind	Amount			
096	FT	100# KELZAN		12 ⁰⁰	14 ⁰⁰	DRAG
	FT	50# CAUSTIC		14 ⁰⁰	2 ⁰⁰	T.D SURVEY & RIG SURVEY
	FT			2 ⁰⁰	8 ⁰⁰	DRAG.
076	FT					
200	FT					
462	FT	TOUR 2		8 ⁰⁰	8 ⁴⁵	DRILL
	FT	KELZAN	50#	8 ⁴⁵	9 ⁰⁰	Take drill See Rig Bio. P. & Rig SURVEY
	FT			9 ⁰⁰	10 ⁰⁰	DRILL
	FT			10 ⁰⁰	10 ³⁰	Machine Survey
	FT			10 ³⁰	3 ¹⁵	DRILL
0824	FT			3 ¹⁵	3 ¹⁵	Take drill
432	FT			3 ¹⁵	4 ⁰⁰	DRILL
1246	FT	TOUR 3		4 ⁰⁰	9 ¹⁵	DRILL
2	FEET	KELZAN	100 LB	9 ¹⁵	9 ⁴⁵	CIRC
1	FEET			9 ⁴⁵	10 ⁰⁰	SURVEY
1	FEET			10 ⁰⁰	10 ¹⁵	RIG SUR
				10 ¹⁵	12 ⁰⁰	TRIP OUT STRIP PIPE

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DESILTER

UNIDIR FLOW	DISCHARGE	SUCTION	RETS.
12:00 AM 11.5	9.3*	9.4	
2:00 AM 12.4	9.4	9.4	
4:00 AM 13.2	9.4	9.4	
6:00 AM 13.2	9.3	9.3*	1 gal / 26 sec
8:00 AM 12.6	9.2	7.6	1 gal / 6 min

Circulated conductor pipe with alcohol for 21 hrs

Desilter mechanic working on desilter
Underflow 10.5 @ 2gpm Overflow 9.1 Suction 9.8

COND
- 0(1/4")
R'S REPORT
K. 0.1
t. Gel 2
D Min. Gel 4
L.F.C. 12 1/2
H 90
Mhd 9
A. p.p.m. 400
L. p.p.m. 400
CORD

h Reading
1
1
2
1

Christensen Stabilizer = 45.4 20 hrs Cumulative 362 1/2 hrs
" " " 45.3 - net in string " " 336 1/4 hrs

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G. P. D. 11716* RIG NO *15*

FIELD *WILD CAT* WELL NAME *2HARFFUR* LSD *N. 66°* SEC *42°* TWP *W 137°* Rpt *20' W*

SABC SHAR
MUD CHEMICALS A

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *FEB 24* 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS .. DP	NO <i>55</i> <i>521033</i> FT	NO <i>55</i> FT	NO <i>56</i> <i>530592</i> FT
SINGLE .. DP	NO <i>1</i> FT	NO <i>2</i> <i>529008</i> FT	NO FT
X-OVER SUB .. O.D.	FT	FT	FT
OTHER .. O.D.	FT	FT	FT
DRILL COLLARS .. 7 O.D.	<i>16</i> FT	<i>49076</i> FT	<i>49076</i> FT
DRILL COLLARS .. 7 O.D. SUB.	FT	<i>1200</i> FT	<i>1200</i> FT
REAMER .. 7 O.D.	<i>KIND CIMS</i> FT	<i>462</i> FT	<i>462</i> FT
STABILIZER .. O.D.	FT	FT	FT
JARS	FT	FT	FT
BUMPER SUB	FT	FT	FT
BIT OR CORE BARREL	FT	FT	FT
TOTAL DP & TOOLS	<i>574982</i> FT	<i>578546</i> FT	<i>581330</i> FT
KELLY DOWN (BELOW R.B.)	<i>1618</i> FT	<i>1654</i> FT	<i>3122</i> FT
DEPTH OF TOOLS	<i>576600</i> FT	<i>580200</i> FT	<i>584452</i> FT

TOUR
200# GEL
50# KELZAN
50 Bbs WATER

TOUR
Gel
Kelzan
Down side B
50 bbl WTR

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>5766</i> FEET	<i>5802</i> FEET	<i>5844</i> FEET
DEPTH START OF TOUR	<i>5718</i> FEET	<i>5766</i> FEET	<i>5802</i> FEET
FOOTAGE DRILLED	<i>48</i> FEET	<i>36</i> FEET	<i>42</i> FEET

TOUR
Kelzan 16 16

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>1750</i>	<i>64</i> / <i>2250</i>
ROTARY SPEED	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>
WEIGHT ON BIT	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>30</i>	<i>30</i>	<i>30</i>	<i>30</i>	<i>30</i>	<i>30</i>
MUD WEIGHT	<i>9.4</i>	<i>9.4</i>	<i>9.3</i>	<i>9.3</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.8</i>	<i>9.5</i>	<i>9.5</i>
VISCOSITY	<i>35</i>	<i>35</i>	<i>34</i>	<i>34</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>38</i>	<i>30</i>	<i>36</i>	<i>38</i>
W.L./F.C.	<i>108</i> / <i>2</i>	<i>108</i> / <i>2</i>	<i>108</i> / <i>2</i>	<i>108</i> / <i>2</i>	<i>108</i> / <i>2</i>	<i>108</i> / <i>2</i>	<i>122</i> / <i>2</i>	<i>122</i> / <i>2</i>	<i>122</i> / <i>2</i>	<i>122</i> / <i>2</i>	<i>122</i> / <i>2</i>	<i>122</i> / <i>2</i>
p.H.	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>
MUD LEVEL IN TANKS												

DIESIRTIME

Time

12:00 AM
2:00 AM
4:00 AM
6:00 AM
8:00 AM
10:00 AM
12:00 PM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
<i>14</i>	<i>8 3/4</i>	<i>779160</i>	<i>PIRD SCMS</i>	<i>3/0 1/4</i>		<i>5629</i>			

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT						
TYPE		PREFLOW	mins	IHP	ps	I.F.P.	ps	Time	AM	PM	Aik
FROM		ISI	mins	FHP	ps	F.F.P.	ps	Mud Wt			Int. Gel
TO		VO	mins	ISIP	ps	G.T.S.	ps	Visk			W.L.F.C.
Recovery		F.S.I	mins	F.S.I.P	ps	F.T.S.	ps	A.V			p.H.
HOURS		RECOVERY						P.V			Sound
								Y.P			CA. ppm
											CL. ppm

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>A CHAMBERS</i>		<i>Ed Krawchuk</i>	Kind	Depth	Reading
DERRICKMAN	<i>M. CHINSKI</i>	<i>L. WHITING</i>		<i>TID</i>	<i>5720</i>	<i>2'</i>
HELPER	<i>C. HABIER</i>		<i>D. McCHAYG</i>	<i>TID</i>	<i>5750</i>	<i>1 1/2'</i>
HELPER	<i>V. VOGEL</i>		<i>Jim Graham</i>	<i>TID</i>	<i>5790</i>	<i>2'</i>
HELPER	<i>W. WAGSTAFER</i>		<i>Robert Sumner</i>	<i>W.L</i>	<i>5790</i>	<i>1 7/8'</i>
FIREMAN				<i>TID</i>	<i>5820</i>	<i>1'</i>
TOOL PUSHER				<i>TID</i>	<i>5835</i>	<i>1'</i>

Characteristics
Stabilizer

SOBC SHARFFER CKJ7. # 066

MATERIALS CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Time	Amount			
1971		12 ¹⁵	1 ¹⁵	DRBG.
TOUR		1 ¹⁵	1 ³⁰	TRD SURVEY + RIG SERU ✓ BOP
292 FT	200# GEL	1 ³⁰	8 ⁰⁰	DRBG.
FT	50# KELZAN			
FT	50 Bbs WATER			
076 FT				
200 FT				
462 FT	TOUR :	8 ⁰⁰	12 ⁰⁰	DRILL
FT	Gel	200	12 ⁰⁰	TELE DRIFT SURVEY
FT	Kelzan	100#	1 ⁰⁰	WIRELINE SERU RIG, REGRATE 30P RIG AND
FT	Downside B	15#	1 ⁰⁰	DRILL
FT	50 bbs WATER		4 ⁰⁰	
330 FT				
122 FT				
452 FT	TOUR :	4 ⁰⁰	7 ¹⁵	DRILL
TOUR	Kelzan 100	7 ¹⁵	7 ³⁰	TELE DRIFT SURVEY
4 FEET		7 ³⁰	8 ⁰⁰	R. 9 SERU CHANGED WASH PIPE PACK
2 FEET		8 ⁰⁰	12 ⁰⁰	DRILL
2 FEET				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DIERSITUR

Time	INLET FLOW	DISCHARGE	Suction	RATE
12:00 AM	10.5	9.4	9.4	1 Gal/rose
2:00 AM	10.6	9.4	9.4	1 Gal/rose
4:00 AM	10.5	9.4	9.4	1 Gal/rose
6:00 AM	10.3	9.3	9.3	1 Gal/rose
8:00 AM	10.3	9.2	9.3	1 Gal/rose
10:00 AM	10.1	9.2	9.2	
2:00 PM	10.3	9.2	9.2	

REPORT

Stabilizer 454 22 1/4 hrs Cumulative 342 1/2 hours

Stabilizer 453 Not in string 336 1/2 hours

Stabilizer 42' above bit

Signature: *[Handwritten Signature]*
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRIG** RIG NO **15**

FIELD **WILDCAT** WELL NAME **SHARFFOR** LSD N 66° SEC 12' TWP 137° R 20' W

503C S1

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **Fri 3 23** **1971**

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO. 54	511318	FT	NO. 54		FT	NO. 54	517876	FT
SINGLE	D.P.	NO.		FT	NO. 1	514707	FT	NO. 2		FT
X OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	7" O.D.	16	49076	FT		49076	FT		49076	FT
DRILL COLLARS	7" O.D. SUB		1200	FT	NO	1200	FT	NO	1200	FT
REAMER	7" O.D.	KIND CHRIS	462	FT	KIND	462	FT	KIND	462	FT
STABILIZER	O.D.			FT			FT			FT
JARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			562056	FT		565445	FT		568414	FT
KELLY DOWN (BELOW R.B.)			2144	FT		3255	FT		3222	FT
DEPTH OF TOOLS			565200	FT		568700	FT		571834	FT

TOUR
Get
KALZAN
WATER
Dump Spare Tools

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	5652 FEET	5687 FEET	5788 FEET
DEPTH START OF TOUR	5629 FEET	5652 FEET	5687 FEET
FOOTAGE DRILLED	23 FEET	35 FEET	31 FEET

TOUR 2
Get
Case
Dowlog
Water

DAY WORK	HOURS						HOURS					
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP		6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00	6:00
ROTARY SPEED		35	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT		15	18	18	18	20	20	25	25	25	25	25
MUD WEIGHT		9.3+	9.3+	9.3	9.3	9.4	9.3	9.4	9	11	11	11
VISCOSITY		34	34	34	34	33	34	34	31	31	31	31
W.L.F.C.			126	126	126	126	126	126	126	126	126	126
pH		9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	10	10	10

TOUR 3
Get
Water
Water

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	BIT CONDITION
14	8 3/4	779160	SCMS	RIED. 7/16		5629		

9:00 AM
6:00 AM
8:00 AM
10:00 AM
12:00 PM
1:00 PM
1:30 PM

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
					Time	AM	PM	AK
					Time	AM	PM	AK
					Mud Wt			
					Visk			
					pH			
					P.V.			
					CA. ppm			
					CL. ppm			

Christensen S

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A CHAMBERS	A Skinner	Ed Krawchuk	Kind	Depth	Reading
DERRICKMAN	W DIENBERG	M CHINSKI	Les Whiting	T.D	5661	1 1/2
HELPER	G HABER	P Vogel	P	T.D	5685	2
HELPER	A BIENZ	V Vogel		T.D	5683	2
HELPER	J FLATO	W. WAGSTAFF		Total	5673	2.
FIREMAN						
TOOL PUSHER						

Christensen S

503C SNAILFEIR CKYT - 066.

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971	MUD & CHEMICALS ADDED	Amount	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	TOUR 1		12 ⁰⁰	12 ¹⁵	Rig SERV. BOP.
276	Gel	400"	12 ¹⁵	1 ⁰⁰	RUN IN
	KALZAN	100"	1 ⁰⁰	5 ²⁰	Check 1 st Com. 5470 To Bottom.
	Water	100 BBLs	3 ³⁰	8 ⁰⁰	DIPLOG
276	Dump Snail Tank				
200	TOUR 2		8 ⁰⁰	9 ⁰⁰	DRILL
462	Gel	200"	9 ¹⁵	10 ⁰⁰	SURVEY Rg SERV BOP Rig SERV BOP Pins
	CAUSTIC	50"	10 ⁰⁰	3 ²⁰	DRILL
	Downhole	6"	7 ⁰⁰	3 ⁰⁰	Take DRILL SURVEY
	Water	20 BBLs	3 ⁰⁰	4 ⁰⁰	DRILL
614	TOUR 3		4 ⁰⁰	5 ⁰⁰	DRILL
222	Gel	100"	5 ⁰⁰	5 ¹⁵	RIG SERV PIPE RAMMS
834	Caustic	50"	5 ¹⁵	5 ⁴⁵	SURVEY WIRELINE
	KALZAN	50"	5 ⁴⁵	8 ⁴⁵	DRILL
	Water	50 BBLs	8 ⁴⁵	9 ³⁰	WORK ON OIL LINES IN COMPOUND
			9 ³⁰	10 ⁰⁰	DRILL
			10 ⁰⁰	11 ⁴⁵	PUT NEW CHAIN IN COMPOUND
			11 ⁴⁵	12 ⁰⁰	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

CONDITION	Time	INJECTION	DISCHARGE	Suction	RATE
	4 ⁰⁰ AM	10.9	9.4	9.3'	1 GAL/1.2 MIN
	6 ⁰⁰ AM	10.8	9.4	9.5'	1 GAL/1 MIN
	8 ⁰⁰ AM	11.3	9.4	9.3	1 GAL/1.1 MIN
	10 ⁰⁰ AM	11.1	9.4	9.3	1 GAL/1.05 SEC
	12 ⁰⁰ PM	10.9	9.4	9.4	1 GAL/1.0 SEC
	3 ⁰⁰ PM	10.9	9.4	9.3	1 GAL/1.0 SEC
	6 ⁰⁰ PM	10.4	1.0	1.1	1 GAL/6.11 SEC

Reading	Christensen Stabilizer	*454	17 1/2 hrs	Cumulative	326 1/4 hrs
1 1/2	Christensen Stabilizer	*453	42' above bit		336 1/4 hrs
2					
2					
2					

J.F. Gumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. DRUG.* RIG NO *15*

FIELD *WILDEAT* WELL NAME *SHARFFER* LSD *N66'* SEC *42'* TWP *W137'* Rge *20'* W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *FEB. 22.* 1971

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO. <i>53</i>	<i>501811</i>	FT	NO. <i>53</i>	<i>501811</i>	FT	NO.	<i>508138</i>	FT
SINGLE .. D.P.	NO. <i>1</i>	<i>3162</i>	FT	NO. <i>2</i>	<i>508138</i>	FT	NO.		FT
X OVER SUB .. O.D.			FT			FT			FT
OTHER .. O.D.			FT			FT			FT
DRILL COLLARS .. <i>7</i> O.D.	<i>16</i>	<i>49076</i>	FT		<i>49076</i>	FT		<i>49076</i>	FT
DRILL COLLARS .. <i>7</i> O.D.	<i>CHRS.</i>	<i>1200</i>	FT	NO.	<i>1200</i>	FT	NO.	<i>1200</i>	FT
REAMER .. <i>7</i> O.D.	<i>KIND CHRS.</i>	<i>462</i>	FT	KIND	<i>462</i>	FT	KIND	<i>462</i>	FT
STABILIZER .. O.D.			FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		<i>555711</i>	FT		<i>558876</i>	FT		<i>558876</i>	FT
KELLY DOWN (BELOW R.B.)		<i>1789</i>	FT		<i>3024</i>	FT		<i>4122</i>	FT
DEPTH OF TOOLS		<i>557500</i>	FT		<i>561900</i>	FT		<i>562998</i>	FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>5575</i> FEET	<i>5629</i> FEET	<i>5629</i> FEET
DEPTH START OF TOUR	<i>5538</i> FEET	<i>5575</i> FEET	<i>5619</i> FEET
FOOTAGE DRILLED	<i>37</i> FEET	<i>44</i> FEET	<i>10</i> FEET

	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	<i>1250</i>	<i>1250</i>	<i>1250</i>	<i>1250</i>	<i>1250</i>	<i>1250</i>	<i>1250</i>					
ROTARY SPEED	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>					
WEIGHT ON BIT	<i>18</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>18</i>	<i>14</i>	<i>18</i>					
MUD WEIGHT	<i>9.4</i>	<i>9.4</i>	<i>9.4</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>						
VISCOSITY	<i>37</i>	<i>35</i>	<i>36</i>	<i>34</i>	<i>33</i>	<i>33</i>						
W.L.F.C.	<i>13</i>			<i>12</i>	<i>12</i>	<i>12</i>						
p.H.	<i>9.2</i>		<i>9.5</i>		<i>9.3</i>	<i>9.5</i>	<i>9.6</i>					
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
<i>13</i>	<i>8 3/4</i>	<i>228377R</i>	<i>Suc. S 88</i>	<i>3/16</i>	<i>51</i>	<i>5280</i>		<i>7</i>	

CORE No.	No.	DST No	FROM	TO	MUD ENGINEER'S REPORT

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR			DEVIATION RECORD		
	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading
DRILLER	<i>A CHAMBERS</i>			<i>H SKINNER</i>			<i>E KRAWCHOK</i>			<i>TWD</i>	<i>5566</i>	<i>2°</i>
DERRICKMAN	<i>W DROZKO</i>			<i>M. CHENSKI</i>			<i>JES WITTING</i>			<i>TOTW</i>	<i>5599</i>	<i>2 1/8</i>
HELPER	<i>G HABER</i>			<i>V. VOGL</i>						<i>TOTW</i>	<i>5624</i>	<i>2 1/4</i>
HELPER	<i>H BIRN</i>			<i>V. VOGL</i>								
HELPER	<i>J FLATO</i>			<i>W. WAGSTAFF</i>								
DREMAN												
DOOL RUSHER	<i>James O'Neil</i>											

2030
MUD CHEMICALS
TOUR
WELERAN
GEL
CAUSTIC
DOWEL
WATER

TOUR
Diesel Tur
Time
2:00 AM
8:00 AM
12:00 PM
2:00 PM

Blindrams
Motor shut
Traps at 3

3030 SHARPER CRT. * 066

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL
		Kind	Amount			WORK DONE
ON TOUR		TOUR				
138	FT			12 ⁰⁰	4 ⁵³	DRILL
	FT			4 ⁵⁵	5 ⁰⁰	Pressure adjusted in Com 20000'S
	FT			5 ⁰⁰	5 ¹⁵	Big surge
	FT			5 ¹⁵	6 ⁴²	DRILL
	FT			6 ⁴⁵	7 ⁰⁰	TID Survey & Coord.
076	FT			7 ⁰⁰	8 ⁰⁰	DRILL
200	FT					
462	FT	TOUR 2		8 ⁰⁰	12 ⁰⁰	Drill
	FT	KELGAN	50"	12 ³⁰	1 ⁰⁰	Sea Log, Operate P&P Rig Survey
	FT	GEL	200"	1 ⁰⁰	4 ⁰⁰	Drill
	FT	CAUSTIC	50"			
	FT	POWDER	30"			
	FT	WATER	50 BLS.			
876	FT					
122	FT					
998	FT	TOUR 3		11 ⁰⁰	5 ⁴⁵	DRILL
TOUR				5 ⁴⁵	6 ³⁰	CIRC AND SURVEY
9	FEET			6 ³⁰	12 ⁰⁰	TRIP OUT AND IN
9	FEET					
0	FEET					
HOURS						
PM 12:00 P.M.						

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DIESILTRR

Time	UNDER FLOW	DISCHARGE	Suction	PASTE
2 ⁰⁰ P.M.	10.6	9.4	9.4	1 Gall / 55 Sec
5 ⁰⁰ P.M.	10.4	9.4	9.4	1 Gall / 55 Sec
8 ⁰⁰ A.M.	10.6	9.4	9.4	1 Gall / 55 Sec
12 ⁰⁰ P.M.	11.5	9.4	9.3	1 Gall / 55 Sec
2 ⁰⁰ P.M.	11.6	9.4	9.3	1 Gall / 55 Sec

Blindrams checked for closing & opening O.K. *[Signature]*
 Motor shut off checked O.K. *[Signature]*

Trip at 5629 to change bit.

REPORT
 Gen
 Am Gen
 FC
 2 P.P.M.
 P.P.M.
 DRD
 Reading

2⁰⁰
 2¹⁴
 2¹⁴

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRUG** RIG NO. **15**

FIELD **WILDCAT** WELL NAME **SHARPER** LSD **N. 66** SEC **42** TWP **W. 137** Rge **20** W

SOBC W/M
MUD CHEMICALS A

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **151321** **1971**

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO. 5	482860	FT	NO 52		FT	NO 53	501811	FT
SINGLE	D.P.	NO. 1	6313	FT	NO 1	495471	FT	NO		FT
X-OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	7 O.D.	16	49076	FT		49076	FT		49076	FT
DRILL COLLARS	7 O.D.	DS43	1200	FT	NO	1200	FT	NO	1200	FT
REAMER	7 O.D.	CHAS.	462	FT	KIND	462	FT	KIND	462	FT
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND		FT
JARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB.		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			539898	FT		546209	FT		552549	FT
KELLY DOWN (BELOW R.B.)			2402	FT		2091	FT		1322	FT
DEPTH OF TOOLS			542300	FT		548300	FT		553871	FT

TOUR
Gel
KELZAN
Water
Dum...
TOUR
CAUSTIC
KELZAN
Dum...
GEL
Water

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	5423	5183	5538
DEPTH START OF TOUR	5367	5423	5483
FOOTAGE DRILLED	56	60	55

TOUR
TOUR

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750
ROT. RY SPEED	55	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	20	20	20	20	20	20	20	20	20	20	20	20
MUD WEIGHT	9.3	9.3	9.3	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
VISCOSITY	34	34	33	33	33	33	32	34	34	34	35	35
W.L./F.C.	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
p.H.	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
MUD LEVEL IN TANKS												

DIRSILTUR
Time UNDO
2:00 A.M.
5:00 A.M.
8:00 A.M.
12:00 A.M.
2:00 P.M.
6:00 P.M.
8:00 P.M.
10:00 P.M.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	BIT CONDITION
13	8 3/4	120377R	Size 588	3/16		5280		

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins	IHP	ps	Time	AM	PM
FROM		ISI	mins	FHP	ps	FFP	ps	Mud Wt
TO		VO	mins	ISIP	ps	GTS	ps	Visc
Recovery		FSI	mins	FSIP	ps	FTS	ps	AV
HOURS		RECOVERY						pH

Plugged
1 roll at
2 saw
under floor

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A CHAMBERS	H. Skinner	Ed KIRAWAN	Kind	Depth	Reading
DERRICKMAN	W. DIENIEKO	M. CHENSKI	L. WHITING	TOTCO	5365	1 1/2
HELPER	G. HABER	V. JOSE	D. McQUAIG	TID	5409	1 1/2
HELPER	A. BIENZ	V. JOSE	J. W. J. J.	TD	5440	1
HELPER	J. FLATO	W. WAGS	P. G. JACOBSON	W.L	5470	1 1/4
FIREMAN				T.O	5505	1 1/2
COOL PUSHER				TOTCO	5512	2 1/8

Christensen S

15

SOBC W.M. SHARFFER PKYT 066.

MUD & CHEMICALS ADDED			From		To		OTHER HOURLY OPERATING DETAIL	
1971		Kind	Amount				WORK DONE	
ON TOUR		TOUR		12 ⁰⁰	1 ⁰⁰		DRLG.	
8 11	FT	Gel	100"	1 ⁰⁰	1 ²⁰		TATCH SURVING	
	FT	KELZAN	50"	1 ²⁰	1 ⁴⁵		RIG SERV.	
	FT	Water	50866	1 ⁴⁵	5 ⁴⁵		DRLG.	
	FT			5 ⁴⁵	6 ⁰⁰		T.D SURVING	
	FT			6 ⁰⁰	2 ⁰⁰		DRLG.	
07 6	FT	Dunn Sur. & T.D.						
200	FT							
4 6	FT	TOUR 2		8 ⁰⁰	10 ⁰⁰		DRILL	
	FT	CAUSTIC	50"	10 ⁰⁰	10 ⁰⁰		Set Rig Operate 300 Start off. Comm. n.k.	
	FT	KELZAN	50"	10 ⁰⁰	2 ⁰⁰		DRILL	
	FT	DUNCISON 6"	30"	2 ⁰⁰	2 ⁰⁰		Wear line Survey	
	FT	GEL	200"	2 ⁰⁰	4 ⁰⁰		DRILL	
549	FT	Water	50865					
3 2	FT							
8 7	FT	TOUR 3		4 ⁰⁰	6 ⁴⁵		DRILL	
TOUR				6 ⁴⁵	7 ⁰⁰		RIG SERV. FINE TUNING	
8	FEET			7 ⁰⁰	9 ⁴⁵		DRILL	
3	FEET			9 ⁴⁵	10 ⁰⁰		WORK ON CHAIN & OILER COMPOND	
5	FEET			10 ⁰⁰	11 ⁰⁰		DRILL	
				11 ⁰⁰	11 ³⁰		SURVEY	
				11 ³⁰	12 ⁰⁰		DRILL	
HOURS								
0 P.M.	12:00 P.M.							

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DISRIKTR

Time	UNDERRFLOW	DISCHARGE	Suction	RATIO
2:00 A.M.	10.9	9.8	9.4	1 Gal/11 sec
5:00 A.M.	10.7	9.4	9.4	1 Gal/11 sec
8" A.M.	10.6	9.4	9.2	1 Gal/11 min
12 A.M.	10.6	9.4	9.2	1 Gal/55 Sec
2 P.M.	10.6	9.4	9.2	1 Gal/55 Sec
6 P.M.	10.6	9.3	1.1	1 Gal/55 Sec
8 P.M.	10.6	1.2	1.1	1 Gal/55 Sec
10 P.M.	10.1	1.3	1.1	1 Gal/60 sec

Plugged leaks in far wall of sump with 30 sax sawdust and 1 roll of polyethylene
 2 sax plaster, 80 sax cement & 1 sax Coltz used to cement under front of pump matting.

CONDITION
 S REPORT
 Gel
 Min. Gel
 L.F.C.
 Reading
 1 1/2
 1 1/2
 1
 1 1/4
 1 1/2
 2 1/8

Christensen Seabalizer = 454; 21 hrs; Cumulative 286 1/4 hrs; 42' up from bit
 453 - not in string 336 1/4.

L. J. J. *[Signature]*
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **C.P. DRUG** RIG NO **15**

FIELD **WILDCAT** WELL NAME **SHARPSAR** LSD **N. 66 SEC 42' TWP. N137°** Rge **20' W**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 20 1971**

603C
 MUE... CHEMICALS A
 TOUR
 WATER
 KILN
 GEL
 DOW... 6"

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO. 50	4735	42 FT	NO. 50	4796	81 FT	NO.	4828	47 FT
SINGLE	D.P.	NO.		FT	NO. 2		FT	NO.		FT
X-OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	7 O.D.	16	4907	6 FT	4907	6 FT		4907	6 FT	
DRILL COLLARS	7 P.D.	NO. 3	1200	FT	NO.	1200	FT	NO.	1200	FT
REAMER	1 O.D.	KIND CHAS	462	FT	KIND	462	FT	KIND	464	FT
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND		FT
JARS				FT			FT			FT
BUMPER SUB.				FT			FT			FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			5242	80 FT	5304	19 FT		5335	85 FT	
KELLY DOWN (BELOW R.B.)			3722	FT	1181	FT		3122	FT	
DEPTH OF TOOLS			5280	02 FT	5316	00 FT		5367	07 FT	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		5316 FEET	5367 FEET
DEPTH START OF TOUR	5280 FEET	5280 FEET	5316 FEET
FOOTAGE DRILLED		36 FEET	51 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP					64 1250	64 1250	64 1750	64 1750	64 1750	64 1750	64 1750	64 1750
ROTARY SPEED					55	55	55	55	55	55	55	55
WEIGHT ON BIT					10	20	20	20	20	20	20	20
MUD WEIGHT					9.2	9.2	9.1	9.1	9.4	11	11	11
VISCOSITY					33	34	34	34	34	31	31	31
W.L.F.C.					11.2	11.0	11.2	11.2	10.7			
p.H.					9.5	9.5	9.5	9.5	9.5	15	15	15

CHANGED ST
 WORKING
 Trip at
 To be read
 Cemented
 plus 3 sac
 under #1
 28 mag
 Time
 2:00
 3:00
 10:00

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FRC	TO	FT HR	BIT CONDITION
13	8 3/4	1283779	Suc. S 88	7/16	5280				

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT
TYPE		PREFLOW	mins	FHP	ps Time
FROM		ISI	mins	FHP	ps Time
TO		VO	mins	ISI	ps Time
Recovery		FSI	mins	FSI	ps Time
HOURS		RECOVERY			ps Time

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD Kind Depth Reading
	DRILLER	A CHAMBERS	A SKINNER	
DERRICKMAN	W DZWIENKO	M CHENSKI	L WHITING	5270 1 1/2
HELPER	B NAJZIK	P VOGEL	D M'GUALO	5313 1
HELPER	A BIRN	V VOGEL	I WANDLER	5345 1
HELPER	J ELATO	W WASTAFF	M JACOBSON	
FOREMAN				

Look down Ch
 Picked up

TOUR REPORT

CONTRACTOR G. P. D. P. K. G. RIG NO 15

FIELD WILCAT. WELL NAME SHAFFER. LSD N 66° SEC 42' TWP 137° Rge 20' W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT F-12319 1971

SOBC WILCAT
 MURPHY CHEMICALS A

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR								
STANDS	D.P.	NO <u>49</u>	<u>46</u>	<u>40</u>	<u>51</u>	FT	NO <u>49</u>				FT	NO	<u>47</u>	<u>35</u>	<u>42</u>	FT
SINGLE	D.P.	NO				FT	NO <u>2</u>	<u>47</u>	<u>03</u>	<u>80</u>	FT	NO				FT
X-OVER SUB	O.D.					FT					FT					FT
OTHER	O.D.					FT					FT					FT
DRILL COLLARS	" <u>7</u> " O.D.	<u>16</u>	<u>490</u>	<u>76</u>		FT		<u>490</u>	<u>76</u>		FT		<u>490</u>	<u>76</u>		FT
DRILL COLLARS	" <u>7</u> " O.D.	<u>NO 31</u>	<u>1200</u>			FT	NO	<u>1200</u>			FT	NO	<u>1200</u>			FT
REAMER	" <u>7</u> " O.D.	<u>KIND CURS.</u>	<u>462</u>			FT	<u>KIND</u>	<u>462</u>			FT	<u>KIND</u>	<u>462</u>			FT
STABILIZER	O.D.					FT					FT					FT
JARS		<u>KIND</u>				FT	<u>KIND</u>				FT	<u>KIND</u>				FT
BUMPER SUB		<u>KIND</u>				FT	<u>KIND</u>				FT	<u>KIND</u>				FT
BIT OR CORE BARREL						FT					FT					FT
TOTAL D.P. & TOOLS			<u>5147</u>	<u>89</u>		FT		<u>5211</u>	<u>36</u>		FT		<u>5242</u>	<u>80</u>		FT
KELLY DOWN (BELOW R.B.)			<u>35</u>	<u>11</u>		FT		<u>20</u>	<u>52</u>		FT		<u>37</u>	<u>22</u>		FT
DEPTH OF TOOLS			<u>5186</u>	<u>00</u>		FT		<u>5232</u>	<u>18</u>		FT		<u>5280</u>	<u>02</u>		FT

TOUR
 30" Downside G
 100" G.L.
 50" KALAN
 50" G.L.
 50" G.L.
 50" G.L.

DAY WORK	MORNING TOUR						DAYLIGHT TOUR						AFTERNOON TOUR					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	s.p.m. p.s.i.	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
ROTARY SPEED	R.P.M.	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>
WEIGHT ON BIT	M lbs.	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>
MUD WEIGHT	lb/gal	<u>9.1</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>
VISCOSITY	sec/qt	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>
W.L.F.C	c.c./32nd	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>
p.H.		<u>9.6</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>
MUD LEVEL IN TANKS	Ft.-Ins.	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>

TOUR
 WILCAT
 KALAN AL
 12:30 AM
 2:00 AM
 4:00 AM
 6:00 AM
 8:00 AM
 10:00 AM
 12:00 PM
 2:00 PM
 4:00 PM
 6:00 PM
 8:00 PM
 10:00 PM
 12:00 AM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	FT-HR	BIT CONDITION
<u>12</u>	<u>2 3/4</u>	<u>267236</u>	<u>Suc. S 88</u>	<u>3/16, 1/8</u>	<u>74 1/4</u>	<u>4776</u>	<u>5280</u>	<u>503</u>	<u>4-5-1</u>

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT												
					PREFLOW	min	HP	ps	TEP	ps	Time	AM	PM	AK			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	<u>A CHAMBERS</u>	<u>M. SKINNER</u>	<u>ED KRAMER</u>			
DERRICKMAN	<u>W. DRANEK</u>	<u>M. CHENSKI</u>	<u>LES WHITING</u>	<u>T.100</u>	<u>5150</u>	<u>1 7/8</u>
HELPER	<u>B. HAIBER</u>	<u>D. UGALA</u>	<u>P. MCGUIRE</u>	<u>T.10</u>	<u>5220</u>	<u>1</u>
HELPER	<u>A. BEWZ</u>	<u>V. UGAL</u>	<u>J. WANDLER</u>	<u>T.10</u>	<u>5250</u>	<u>1 1/2</u>
HELPER	<u>J. FLATO</u>	<u>W. WAGSTAFF</u>	<u>G. JACOBSON</u>	<u>T.100</u>	<u>5250</u>	<u>2 1/8</u>
FIREMAN						
TOOL PUSHER						

TOUR
 12:30 AM
 2:00 AM
 4:00 AM
 6:00 AM
 8:00 AM
 10:00 AM
 12:00 PM
 2:00 PM
 4:00 PM
 6:00 PM
 8:00 PM
 10:00 PM
 12:00 AM

15

5032 W.M. SHUFFRIN. CKYT - 022

MATERIALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR		12 ⁰⁰	3 ¹²	DRILL
542 FT		3 ¹²	3 ⁴⁵	Survey + Rig Serv
FT		3 ⁴⁵	8 ⁰⁰	DRILL
FT				
076 FT				
200 FT				
462 FT	TOUR :	8 ⁰⁰	8 ¹⁵	DRILL
FT	30" Downside G	8 ¹⁵	8 ¹⁵	See Rig operator Book
FT	100" Bob	8 ¹⁵	1 ³⁰	DRILL
FT	50" Kalzan	1 ³⁰	1 ⁴⁵	Tele call Sunday
FT	50" Christie	1 ⁴⁵	4 ⁰⁰	DRILL
280 FT	50 lbs water			
722 FT				
002 FT	TOUR :	4 ⁰⁰	6 ¹⁵	DRILL
TOUR	Water	6 ¹⁵	7 ⁰⁰	Rig Serv Survey to 2250
0 FEET	KALZAN AL	7 ⁰⁰	11 ⁰⁰	DRILL
2 FEET	Jal	11 ⁰⁰	11 ¹⁵	Survey
8 FEET		11 ¹⁵	12 ⁰⁰	TRIP OUT

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DESIRE

TIME	INVENTION	DISCHARGE	SUCION	RATE
1230 AM	9.9	9.3	9.2	16 Gal / min
2 AM	10.5	9.4	9.1	16 Gal / min
4 AM	10.1	9.6	9.2	16 Gal / min
6 AM	10.2	9.6	9.2	16 Gal / min
8 AM	10.5	9.2	9.2	16 Gal / min
10 AM	10.5	9.2	9.2	16 Gal / min
1 PM	10.6	9.2	9.2	16 Gal / min, 20 Sec
6 PM	10.1	9.1	9.1	16 Gal / min
10 PM	9.9	9.3	9.1	16 Gal / min

CHRISTENSEN STABILIZER 40' ABOVE BIT

1 1/8" CHRISTENSEN STABILIZER #453 2 1/4 hrs Cumulative 315 Hrs

2 1/8" CHRISTENSEN STABILIZER #454 NOT INSTALLED " 252 1/4 Hrs

Loft
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRIEG** RIG NO **15**

FIELD **WILD CAT** WELL NAME **SHANSHAR** LSD **N 66° SEC 42' TWP W 137°** Rge **20° W**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB. 18 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO. 47	4450	63 FT	NO. 11	4596	45 FT	NO.	4608	73 FT
SINGLE	D.P.	NO. 1	3160	FT	NO.		FT	NO.		FT
X-OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	7' O.D.	16	4907	6 FT		4907	6 FT		4907	6 FT
DRILL COLLARS	7' O.D.	5288	1200	FT	NO.	1200	FT	NO.	1200	FT
REAMER	7' O.D.	CINIS	462	FT	KIND	462	FT	KIND	462	FT
STABILIZER	O.D.			FT	KIND		FT	KIND		FT
JARS				FT	KIND		FT	KIND		FT
BUMPER SUB				FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			4989	61 FT		5053	83 FT		5116	11 FT
KELLY DOWN (BELOW R.B.)			2539	FT		1117	FT		1222	FT
DEPTH OF TOOLS			5015	00 FT		5065	00 FT		5128	33 FT
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			5015	FEET		5065	FEET		5128	FEET
DEPTH START OF TOUR			4975	FEET		5015	FEET		5065	FEET
FOOTAGE DRILLED			40	FEET		50	FEET		63	FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	S.P.M. P.S.I.	1250	1250	1250	1250	1250	1250	64	64	64	64	64
ROTARY SPEED	R.P.M.	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	M lbs.	20	20	18	18	18	18	16	14	14	14	14
MUD WEIGHT	lb/gal	9.3	9.3	9.3	9.3	9.2	9.1	9.1	9.3	9.4	9.4	9.4
VISCOSITY	sec/qt	33	35	34	34	37	32	33	34	35	36	37
W.L.F.C.	c.c./32nd	11.2			11.6	6	11.4	2	11		11.3	11.2
pH		9.0	8.2		9.0		9.0	9.0			9.0	9.0
MUD LEVEL IN TANKS	Ft.-Ins.											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
12	8 3/4	267256	Suc. S 88	3/16 1/4		4776			

CORE No.	No.	DST No.	FROM		TO		MUD ENGINEER'S REPORT					
			PREFLOW	mins	FHP	psi	F.P.	psi	Time	A.M.	Alk	Trace
			IS1	mins	FHP	psi	F.P.	psi	Mud Wt	9.3	10 Min	3.6
			VO	mins	IS1P	psi	GTS	psi	Vin	34	W.L.F.C.	11 1/2
			FS1	mins	FSTP	psi	F.T.S	psi	A.V.	12	pH	9.0
			RECOVERY						P.V.	8	Solid	
									Y.P.	9	CA ppm	
											CL ppm	

SIGNATURES	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR		DEVIATION RECORD		
	Driller	Derrickman	Helper	Helper	Driller	Derrickman	Kind	Depth	Reading
	A. CHAMBERS	W. DUDNIKO	B. HANZIK	A. BIRNIZ	A. SKINNER	M. CHANYSKI	Totco	4985	2"
							Totco	5260	2"

508C
MUD CHEMICALS
TOUR
Gul
Kalzan
Causie
Downside G
Water

TOUR
DESILTER:
TIME
12:30 AM
2:00 AM
6:00 AM
9:00 AM
2:00 PM
6:00 PM
10:00 PM

Christensen

S O B C W.M. SHARFEIR CK JT-1 022

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL
ON TOUR	TOUR	Kind	Amount			WORK DONE
873	FT.			12 ⁰⁰	3 ⁴⁵	DRILL
	FT.			3 ⁴⁵	4 ¹⁵	Survey
	FT.			4 ¹⁵	4 ³⁰	Pile SURV.
	FT.			4 ³⁰	5 ⁴⁵	DRILL
	FT.			5 ⁴⁵	6 ⁰⁰	w/out compound alkalis
076	FT.			6 ⁰⁰	8 ⁰⁰	DRILL
200	FT.					
462	FT.	TOUR 2		8 ⁰⁰	10 ⁰⁰	DRILL
	FT.	Gul	100 [#]	10 ⁰⁰	10 ³⁰	Survey & Back Rig Survey
	FT.	Kalzan	50 [#]	10 ³⁰	2 ⁰⁰	DRILL
	FT.	Caustic	50 [#]	2 ³⁰	3 ⁰⁰	Survey
	FT.	Dowicide G	30 [#]	3 ⁰⁰	4 ⁰⁰	DRILL
	FT.	Water	50641			
611	FT.					
222	FT.					
833	FT.	TOUR 3		4 ⁰⁰	7 ⁰⁰	DRILL
	TOUR	Water	50	7 ⁰⁰	7 ¹⁵	SERV Rig & Back
8	FEET			7 ¹⁵	10 ⁰⁰	DRILL
5	FEET			10 ⁰⁰	10 ¹⁵	WORK ON MUD LINE
3	FEET			10 ¹⁵	12 ⁰⁰	DRILL
	HOURS					
	12 00 P.M.					
	12 00 P.M.					

DESILTER: CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

TIME	UNDERFLOW	DISCHARGE	SUCTION	RATE
12.30 A.M.	11.7	9.4	9.2 ⁺	
2.00 A.M.	10.3	9.4	9.3	82 sec/gal
6.00 A.M.	10.4	9.4	9.3 ⁺	45 sec/gal
9.00 A.M.	10.3	9.4	9.3	
2 ⁰⁰ P.M.	10.6	9.4	9.2	
6 ⁰⁰ P.M.	10.2	9.2	9.3	
10 ⁰⁰ P.M.	9.7	9.7	9.4	

S REPORT
 * Trace
 t. Gel
 Min. Gel
 LFC 11 1/2
 H 3.0
 A, ppm
 L, ppm

Christensen Stabilizer #453 214 hrs Cumulative 315 hours
 " " #454 - NOT in string " 252 1/4 "

CORD
 Reading
 5 2"
 0 2"

L. J. Grumbler
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP**

RIG NO **15**

SDBC WM

FIELD **Wildcat** WELL NAME **SHARPER 122 CLSD N 66° SEC 42' TWP W 137° Rge 20' W**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

Feb 17 1971

MUD CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS .. D.P. NO. 46	435558 FT	NO. 46	NO. 46 445125 FT
SINGLE .. D.P. NO.		NO. 1 488840 FT	NO. X 4288 FT
X OVER SUB .. O.D.			
OTHER .. O.D.			
DRILL COLLARS 7" O.D. 16	49076 FT	49076 FT	49076 FT
DRILL COLLARS 7" SUB NO. 1	1200 FT	1200 FT	1200 FT
REAMER .. O.D. KIND			
STABILIZER 7" O.D. CONS. KIND	462 FT	462 FT	462 FT
JARS KIND			
BI-MPER SUB KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	486296 FT	489578 FT	495893 FT
KELLY DOWN (BELOW R.B.)	2504 FT	4030 FT	2830 FT
DEPTH OF TOOLS	488800 FT	393609 FT	497523 FT

TOUR
Can
Heater
Down
GEL
CAUSTIC
KELCAN
Down
Water

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	
DEPTH END OF TOUR	4888 FEET				4888 FEET				4975 FEET			
DEPTH START OF TOUR	4847 FEET				4888 FEET				4936 FEET			
FOOTAGE DRILLED	41 FEET				48 FEET				39 FEET			

TOUR
DIESEL
Time
2:00
6:00
8:00
12:00
2:00
6:00
10:00

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT/HR	BIT CONDITION
12	8 3/4	217756	SICC S 88	3/16		4776			

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	FHP	ps	FPP	ps	Time	AM
FROM		ISI	mins	FHP	ps	FPP	ps	Mud Wt	PM
TO		VO	mins	FSIP	ps	GTS	ps	Vis.	AIK
Recovery		FSI	mins	FSIP	ps	FIS	ps	AV	Int. Gr.
HOURS		RECOVERY						PV	(10 Min. Gr.)

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A CHAMBERS	A S. K... ..	E KRAWCHUK	Kind	Depth	Reading
DERRICKMAN	W. DENIHO	M. SHERSKI	Les Whiting			
HELPER	G HABER	V. Vogel	D. McCURIG	7 to	4904	17/8
HELPER	A BENZ	V. Vogel	I WANDER			
HELPER	J FLATO	W. WAGSTAFF				
FIREMAN						
TOOL PUSHER	Jane Mason					

SDBC WM Shafter CK 4T D-22

1971
 ON TOUR
 155 FT
 8 FT
 076 FT
 200 FT
 462 FT
 893 FT
 630 FT
 523 FT
 TOUR
 2 FEET
 6 FEET
 9 FEET
 HOURS
 12:00 P.M. 12:00 P.M.
 5
 0
 4
 CONDITION
 REPORT
 k
 t Gel
 Min Gel
 L.F.C.
 H
 ind
 A. ppm
 L. ppm
 CORD
 n Reading
 4 17/8

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				
		12 ⁰⁰	4 ¹⁵	DRILL
Cell	100 ⁰	4 ¹⁵	4 ³⁰	RIG SERV.
Water	50 ⁰	4 ³⁰	6 ⁰⁰	DRILL
Water	500 Gals			
Drum Water Tank				
TOUR 2				
		8 ⁰⁰	10 ³⁰	DRILL
Gel	200 ⁰	10 ³⁰		Supply Rig San operate 2nd & 3rd
Caustic	50 ⁰		11 ⁰⁰	Change over 2nd & 3rd
KELZAN	50 ⁰	11 ⁰⁰	4 ⁰⁰	DRILL
Dowcorac B	65 ⁰			
Water	200 Gals			
TOUR 3				
		4 ⁰⁰	4 ¹⁵	RIG SERV CHECK ROPS
		4 ¹⁵	6 ⁰⁰	DRILL
		6 ⁰⁰	8 ⁰⁰	WORK ON COMMERCIAL OILS
		8 ⁰⁰	12 ⁰⁰	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DIESEL TEST

Time	UNDISPERSED	DISCHARGED	Set Point
2 ⁰⁰ AM	10.4	9.4	9.3
6 ⁰⁰ AM	10.8	9.5	9.3
8 ⁰⁰ AM	11.2	9.5	9.3
12 ⁰⁰ AM	11.2	9.5	9.2
2 ⁰⁰ PM	11.3	9.5	9.2
6 ⁰⁰ PM	11.1	9.5	9.3
10 ⁰⁰ PM	10.7	9.4	9.1

L. F. J. ...
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP** RIG NO **15**

FIELD **WILDCAT** WELL NAME **SHAEFFER** LSD **N 66° SEC 42' TWP W 137°** Rpt **20' W**
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB. 16** 19**71**

SOBCW
 MUD CHEMICALS
 TOUR
GEL
KELZAN 14
WATER
 TOUR
Sandust
 TOUR
Caustic
KELZAN
GEL
DOWSOG
WATER

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO. 44			NO. 45	4260	78	NO. 45	4324	84
SINGLE	DP	NO. 2	4230	06	NO			NO. 2		
X-OVER SUB	OD									
OTHER	OD									
DRILL COLLARS	16 9" O.D.		490	76		490	76		490	76
DRILL COLLARS	1 T.D. SUB	NO. 1200			NO. 1200			NO. 1700		
REAMER	OD									
STABILIZER	CHRISTENSEN		462			462			462	
JARS										
BUMPER SUB										
BIT OR CORE BARREL										
TOTAL DP & TOOLS			4737	44		4768	16		4832	22
KELLY DOWN (BELOW R.B.)			39	24		20	84		156	0
DEPTH OF TOOLS			4776	68		4789	00		4842	82

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	4776 FEET	4789 FEET	4842 FEET
DEPTH START OF TOUR	4745 FEET	4776 FEET	4789 FEET
FOOTAGE DRILLED	31 FEET	13 FEET	4842 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:30 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	6 1/2 1720	6 1/2 1720	6 1/2 1720				6 1/2 1720	6 1/2 1720	6 1/2 1720	6 1/2 1720	6 1/2 1720	6 1/2 1720
ROTARY SPEED							55	55	55	55	55	55
WEIGHT ON BIT							15m	18	20	20	20	20
MUD WEIGHT	9.2	9.2	9.3				9.3	9.1	9.2	9.2	9.2	9.2
VISCOSITY	34	33	34				34	33	33	33	33	33
W.L.F.C.		11.2					10.8	10.2	10.2	10.2	10.2	10.2
pH		9.5					9.0	9.5	9.5	9.5	9.6	

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT CONDITION
11	8 1/4	ATL 3	H.W. XWR	2-10 1-9	11	4722	4776	5 1/2	2-1-1
12	8 1/4	267756	Buc S 88	3/16 1/8	7 1/4	4776	4847	7 1/2	100

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	FHP	ps	FEP	ps	Time	AM
FROM		ISI	mins	FHP	ps	FEP	ps	Mod W	10 Min
TO		VO	mins	ISIP	ps	OTS	ps	VIN	W.F.P.
Recovery		FSI	mins	FSP	ps	FES	ps	AV	100
HOURS		RECOVERY							

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	K. CHRISTENSEN	A. CANON	H. SHINDLER	Toteo	4765	2°
DERRICKMAN		W. DIEMER	M. CHAVSK	T.O	4809	1 1/2
HELPER	B. JABS	G. HABIR	V. Vogel	T.O	4810	2°
HELPER	D. JARNER	A. BRUNZ	V. Vogel			
HELPER		J. F. HATO	W. WAGSTADT			
FIREMAN						
TOOL PUSHER	James O'Keefe					

DESILTER
 2.2 B.M.
 6.00 H.M.
 3 P.M.
 4 P.M.
 5 P.M.
 6 P.M.
 100. san
 Christensen St
 92' above

SOBC WM Shafter CK YT 0-22

MATERIALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL
TOUR	Amount			WORK DONE
1971		12:00		
TOUR 1				WORK ON OIL PUMP COMPOUNDS
484 FT	GEL 100#	12:30	12:30	RIG SER. + PIPE RAMS.
FT	KELZAN 176 50#	7:30	7:30	DRUG
FT	WATER 50 Gals		8:00	CIRC. + WORK 7, Pa.
FT				
076 FT				
700 FT				
FT				
462 FT		8:00	8:15	Survey
FT		8:30	10:20	HOIST 1317 11 @ 4776
FT	Sawdust 100	10:20	10:45	PIPE SERVO + CLOSED BLIND RAMS OK
FT		10:45	12:15	RUN IN
FT		12:15	2:00	CLEAN IN FROM 4680 TO BIT TONG 97 ft
222 FT		12:15	2:15	DRUG
FT		2:15	2:30	CLEAN OIL PUMP IN COMPOUNDS
560 FT		2:30	4:00	DRUG
FT		4:00	6:00	DRILL
782 FT		6:00	6:15	tele. on H. 100 R ₉ + B ₂ P ₁₀
TOUR 2				
7 FEET	CAUSTIC 50#	6:30	6:45	DRILL
FEET	KELZAN 50#	6:45	10:15	DRILL
9 FEET	GEL 100#	10:15	10:30	SURVEY WIRE LINE
8 FEET	DOWDICE G 50#	10:30	12:00	DRILL
HOURS	WATER 50 Gals			
P.M. 12:00 P.M.				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DISCHARGE	SUCTION
2 92	9.2
3 37	9.2
2 102	9.3+
5 9.6	9.2
11.2	9.3
11.2	9.3
11.2	9.2

CHICK BLIND RAMS OK

100 sack sawdust used to mend sump & insulate sub.

Ch. Stenssen Stabilizer 493 - 16 3/4 hrs. Cumulative 192 3/4 hrs. 42' above bit.

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **WILDBAT** WELL NAME **SHAEFFER** LSD **N 66** SEC **42** TWP **W 137** R **20** W

DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 15** 19**71**

SUBC SA

MU... CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 44 415597 FT	NO 416569 FT	NO 44 419824 FT
SINGLE D.P.	NO	NO	NO 1 419824 FT
X OVER SUB O.D.			419824 FT
OTHER O.D.		49076 FT	
DRILL COLLARS 16 7" O.D.	49160 FT	1200 FT	49076 FT
DRILL COLLARS 1 TO SUB O.D.	1198 FT		1200 FT
REAMER N.B.R. O.D.	380 FT	380 FT	
STABILIZER 2 CHRISTENSEN O.D.	927 FT	924 FT	462 FT
JARS			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	467262 FT	468149 FT	470592 FT
KELLY DOWN (BELOW R.B.)	3538 FT	4020 FT	4030 FT
DEPTH OF TOOLS	470800 FT	472279 FT	474592 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	4708 FEET	4722 FEET	4745 FEET
DEPTH START OF TOUR	4675 FEET	4708 FEET	4722 FEET
FOOTAGE DRILLED	33 FEET	19 FEET	23 FEET

TOUR WATER 3

TOUR

TOUR

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP S.P.M. P.S.I.	64 1450	64 1450	65 1500	65 1500						64 1450	64 1450	
ROTARY SPEED R.P.M.	55	55	55	55						63	63	
WEIGHT ON BIT M lbs.	15	15	15	15						10	18	
MUD WEIGHT lb./gal.	9.2	9.2	9.2	9.2						9.2	9.2	
VISCOSITY sec/qt	37	37	33	33						33	32	
W.L.F.C. c.c./32nd	10.7	10.7	10.7	10.7						11.2	11.2	
p.H.	9.5		9.5							9.6	9.6	
MUD LEVEL IN TANKS Ft. ins												

DRSITER
2:00 A.M.
4:00 AM
6:00 AM
Changed

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET SIZES IN 1/32	TOTAL HOURS	FROM	TO	DEPTH	BIT CONDITION
10	8 3/4	DF820	H.W. J-44	8-10	112	3964	4722	7586.6	6-8-0 1/8
11	8 3/4	RATHS	H.W. - XWR	2-10	4	4722	4745	23	RUNNING

Double Tall

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT
TYPE		PREFLOW	INS	F.P.	INS
FROM		ISI	INS	F.P.	INS
TO		VO	INS	F.P.	INS
Recovery		F.S.I.	INS	F.S.P.	INS
HOURS		RECOVERY			

Lat & Lon
hard down
w/sincat
XO sus

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	K CHRISTENSEN		A SKINNER	Kind Depth Reading
DERRICKMAN	C LONG		M CHENSKI	Total 4705 2 1/2
HELPER	A JARS		V JORGEL	
HELPER	D TURNER		V JORGEL	
HELPER	B EASTLAND		W WINGSTAFF	
FIREMAN				
TOOL PUSHER				

9:00 PM
Stabilize
only in sta

SUBC. SHAEFFER CKYT 1st

1971
 TOUR
 FT
 000 FT
 24 FT
 FT
 076 FT
 240 FT
 FT
 TOUR
 462 FT
 FT
 FT
 592 FT
 030 FT
 592 FT
 TOUR
 FEET
 01 FEET
 02 FEET
 03 FEET
 HOURS
 P.M. 12:00 P.M.
 04
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 06
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MATERIALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
WATER	30 BBLs	12 ⁰⁰	1 ⁰⁰	DRLG.
		1 ⁰⁰	1 ³⁰	RIG SER. SURVEY '80 P.V.
		1 ³⁰	8 ⁰⁰	DRLG.
		8 ³⁰	8 ⁴⁵	DRLG.
		8 ⁴⁵	9 ⁰⁰	CIRC + W/ PIPE
		9 ⁰⁰	9 ¹⁵	SURVEY
		9 ¹⁵	12 ³⁰	HOIST & DOUBLE WINDMILL THAW OUT
		12 ³⁰	12 ⁴⁵	RIG HOLE + TAKE OF KELLY HOSE.
		12 ⁴⁵	2 ⁴⁵	RIG SERVO.
		2 ⁴⁵	4 ⁰⁰	REPAIR OIL LINES w/ COMPONENTS
		4 ⁰⁰	5 ⁰⁰	RUN IN + LAY DOWN W/ B. REAMER + 1 STAB.
		5 ⁰⁰	5 ¹⁰	RUN IN
		5 ¹⁰	5 ⁴⁵	BLOW KELLY HOSE + P.T.O.
		5 ⁴⁵	8 ⁰⁰	SEA RIG + BOP
		8 ⁰⁰	12 ⁰⁰	BREAK CIRC CLEAN 160 TON PERCENTAGE
				DRILL

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

DISKETER	UNDERFLOW	OVERFLOW	SUCTION
2:00 A.M.	13.1	9.2	9.2
4:00 A.M.	12.7	9.3	9.2
6:00 A.M.	12.7	9.3	9.2

Changed saver sub on Kelly - Kelly's saver sub 41.22

Double Tally Out: 3.6M 4722.79
 Board 4712.92
 D.H. ~~9.79~~ Correction Made
 + 9.79

Laid down Great New Bit Roller Reamer 3.80
 Laid down Christensen stabilizer # 454 4.62
 w/ SINGAL 5 1/2 T. JUNT. 8.42
 XO SUB 6 1/16 + 6 1/16.

9:00 P.M. 11.3 9.2 9.2

Stabilization changed at 4722. One Christensen stabilizer only in string at 22 feet above bit.

Signature
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **WILDCAT** WELL NAME **SHAEFFER** LSD **N 66° SEC 47' TWP W 132° R 20' W**

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

FEB 14

1971

S.D.B.C. SHA

MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO. 42		FT	NO. 43	40 60 93	FT	NO. 43		FT
SINGLE .. D.P.	NO. 2	40 30 32	FT	NO. 1	30 89	FT	NO. 2	41 24 37	FT
X-OVER SUB .. O.D.			FT			FT			FT
OTHER .. O.D.			FT			FT			FT
DRILL COLLARS 16-7 O.D.		491 60	FT		491 60	FT		491 60	FT
DRILL COLLARS TD SUB O.D.	NO.	1 198	FT	NO.	11 98	FT	NO.	11 98	FT
REAMER W.B.R. O.D.	KIND	380	FT	KIND	380	FT	KIND	380	FT
STABILIZER CHRISTENSEN O.D.	KIND	927	FT	KIND	927	FT	KIND	927	FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		45 46 97	FT		46 08 47	FT		46 41 02	FT
KELLY DOWN (BELOW R.B.)		40 50	FT		27 53	FT		33 98	FT
DEPTH OF TOOLS		45 87 27	FT		46 36 00	FT		46 75 00	FT

TOUR
GEL
KELZAN
CAUSTIC
WATER

TOUR
Dump 2 1/2 in 2 1/2 in

TOUR
KELZAN
GEL
WATER

DAY WORK	MORNING TOUR						DAYLIGHT TOUR						AFTERNOON TOUR					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.						
PUMP	64 1450	64 1450	64 1450	64 1450	64 1450	64 1450	65 1500	65 1500	65 1500	65 1500	65 1500	65 1500						
ROTARY SPEED	R.P.M.	55	55	55	55	55	55	55	55	55	55	55						
WEIGHT ON BIT	M.lbs	20	20	20	20	15	15	15	15	15	15	15						
MUD WEIGHT	lb/gal	9.1	9.2	9.1	9.1	9.2	9.1	9.1	9.1	9.1	9.1	9.1						
VISCOSITY	sec/qt	33	34	34	33	33	33	33	33	33	33	33						
W.L.F.C.	c.c./32nd	112	122	122	122	122	122	122	122	122	122	122						
pH					9.5				9.5	9.5	9.6							

DESILTER.
2⁰⁰ A.M.
4⁰⁰ A.M.
6⁰⁰ A.M.
12⁰⁰ P.M.
2⁰⁰ P.M.
4⁰⁰ P.M.
8⁰⁰ P.M.
10⁰⁰ P.M.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
10	8 3/4	DE 820	H.W. J-44	3-10		3964	4587	623	
10	8 3/4	DE 820	H.W. J-44	3-10	103 ³ 4	3964	4625	711	Running

Reduced

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
					Time	9	PM
					Mud Wt	9.1	
					Vis	33	W.L.F.C. 11 1/2
					AV	13	pH 9.5
					SPV	8	
					YP	9	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	K. CHRISTENSEN	A. CHAMBERLAIN	J. SKINNER	Kind	Depth	Reading
DERRICKMAN	D. TURNER	W. DIENHARD	M. CHANDLER	W.H.	4585	2 1/2
HELPER	B. JABS	G. HARRIS	V. MOYER	W.H.	4614	2 1/4
HELPER	R. EASTLAND	J. FLATO	V. MOYER	TELE	4649	2
HELPER			W. MOYER	W.H.	4681	2 1/4
FIREMAN						
TOOL PUSHER	James Christensen					

50 BC SHAEFFER CKYT # 0-22

MUD & CHEMICALS ADDED				OTHER HOURLY OPERATING DETAIL	
Key	Amount	From	To	WORK DONE	
1971		12:00	1:30	DRAG	
TOUR 1		1:30	4:00	CLEAN SCREENS ON LUB PUMP COMPONETS	
GEL	200 ^{lb}		1:45	PIC. SER. B.O.P. ✓	
KELZAN	50 ^{lb}	1:45	8:00	DRAG.	
CAUSTIC	50 ^{lb}				
WATER	30 ^{gals}				
160 FT					
198 FT					
380 FT		8:00	8:30	W.H. SURVEY + PIC. SER. B.O.P.S.	
TOUR 2		8:30	1:00	DRAG.	
927 FT		1:00	1:30	W.H. SURVEY	
		1:30	4:00	DRAG.	
102 FT				DUMP SCALE TANK	
398 FT					
500 FT		4:00	6:00	DRILL	
TOUR 3		6:00	6:15	SURVEY SET RIG. B.O.P.	
KELZAN	50 ^{lb}	6:00	9:00	DRILL	
GEL	200 ^{lb}	9:00	9:15	CLEAN SCREENS IN PUMP HOUSE	
WATER	50 ^{gals}	9:15	11:00	DRILL	
		11:00	11:30	PLACE NEW WEIGHT COMP. DILEN.	
		11:30	12:00	DRILL	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DESILTER.	UNDERFLOW	OVERFLOW	SUCTION
2 ⁰⁰ A.M.	11.2	9.1	9.2
4 ⁰⁰ A.M.	11.4 4 mm/gal	9.1	9.1
6 ⁰⁰ A.M.	10.9 4 mm/gal	9.2	9.1
10 ⁰⁰ A.M.	10.2	9.1	9.2
2 ⁰⁰ P.M.	10.4	9.2	9.1
4 ⁰⁰ P.M.	12.	9.1	9.1
8 ⁰⁰ P.M.	12.3	9.1	9.2
10 ⁰⁰ P.M.	12.1	9.1	9.1

Reduced weight on bit from 20m to 15m to drop angle

Trace
Gel
Min Gel
FC 11 2/2
9.5
D.P.M.
P.P.M.
RD
Reading
2 1/2
2 1/4
2
2 1/4

L. F. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **CR** RIG NO **15**

FIELD **WILDCAT** WELL NAME **SLAEFFER** LSD SEC TWP Rge W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB. 13 1971**

SOBC SLAEFFER
MUD CHEMICALS AD

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	DP	NO	41		FT	NO	41		FT	NO	42		FT
SINGLE	DP	NO.	1	390331	FT	NO	2	393503	FT	NO	1	394861	FT
X-OVER SUB	O.D.				FT				FT				FT
OTHER	O.D.				FT				FT				FT
DRILL COLLARS	16 7' O.D.			49160	FT			49160	FT			49160	FT
DRILL COLLARS	1 T.D. SUB	NO.		1198	FT	NO		1198	FT	NO		1198	FT
REAMER	N.B.R.	KIND		380	FT	KIND		380	FT	KIND		380	FT
STABILIZER	J. CHRISTENSEN	KIND		927	FT	KIND		927	FT	KIND		927	FT
JARS		KIND			FT	KIND			FT	KIND			FT
BUMPER SUB		KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D.P. & TOOLS				441996	FT			445168	FT			451526	FT
KELLY DOWN (BELOW R.B.)				2604	FT			3832	FT			1974	FT
DEPTH OF TOOLS				444600	FT			449000	FT			453500	FT
TOUR		MORNING TOUR			DAYLIGHT TOUR				AFTERNOON TOUR				
DEPTH END OF TOUR			4446	FEET		4490	FEET		4535	FEET			
DEPTH START OF TOUR			4393	FEET		4446	FEET		4490	FEET			
FOOTAGE DRILLED			53	FEET		44	FEET		45	FEET			

TOUR	
GEL	2
KELIAN	5
WATER	5
TOUR	
CHINA	5
KELIAN	5
CHINA	2
DOWNING	5
WATER	5
TOUR	
CHINA	
4530L	5

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	sp.m. p.s.i. 64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450
ROTARY SPEED	R.P.M. 55	55	55	55	25	55	55	55	55	55	55	55
WEIGHT ON BIT	M lbs. 20	20	20	20	20	20	20	20	20	20	20	20
MUD WEIGHT	lb/gal 9.1	9.1	9.1	9.1	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1
VISCOSITY	sec/qt			32	32	32	32	32	32	32	32	32
W.L.F.C.	c.c./32nd				10 1/2				11 1/2	11 1/2	11 1/2	11 1/2
p.H.					9.0				9.5	9.6	9.6	9.6
MUD LEVEL IN TANKS	ft-ins.											

DESILTER
 2⁰⁰ A.M.
 4⁰⁰ A.M.
 6⁰⁰ A.M.
 8⁰⁰ A.M.
 10⁰⁰ A.M.
 2³⁰ P.M.
 6⁰⁰
 8⁰⁰ P.M.
 10⁰⁰ P.M.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION
10	8 3/4	DF920	H.W. J-44	3-10	82 1/4	3964	4535	571	Running

COBE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins. IHP	ps. IEP	ps. Time	AM	AK	0.05
FROM		ISI	mins. FHP	ps. FFP	ps. Mud Wt	9.1	10 Min. Gr	5
TO		VO	mins. ISIP	ps. GTS	ps. Vis	32	WLF C	
Recovery		F.S.I	mins. F.S.I.P	ps. FTS	ps. AV	12	p.H.	
HOURS		RECOVERY			P.V	8	Soil	
SIGNATURES					Y.P	6	CA ppm	1.000

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	K. CHRISTENSEN	A. CHAMBERLAIN	H. SKINWOOD	Kind	Depth	Reading
DERRICKMAN	C. LOWE	W. DOWNING	M. CHENSKI	WIRE	4428	2'
HELPER	B. TABS	G. HABIBI	P. WAGEL	T.D	4455	1'
HELPER	D. TURNER	A. BIRNIZ	V. VOGEL	T.D	4491	1 1/2'
HELPER	R. EASTLAND	J. FLATO	W. WAGSTAFF	LINE	4523	2 1/4'
FIREMAN						
TOOL PUSHER	James K. ...					

New Bit Rec.
 Christensen R.
 "

SOBC SHAEFFER CKYT

0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971
ON TOUR
061 FT
160 FT
198 FT
380 FT
927 FT
526 FT
974 FT
500 FT
TOUR
57 FEET
0 FEET
5 FEET
HOURS
P.M. 12:00 P.M.

MUD & CHEMICALS ADDED		From	To	
Kind	Amount			
TOUR 1		12 ⁰⁰	5 ⁰⁰	DRAG
		5 ⁰⁰	5	WIRELINE SURVEY, RIG SERVICE
GEL	200#	5 ³⁰	5 ³⁰	BOP ✓ BRAKE PINS & LINKAGES
KELZAN	50#	5 ³⁰	8 ⁰⁰	DRAG
WATER	50 Bbls			
TOUR 2		8 ⁰⁰	9 ⁴⁵	DRAG
CAUSTIC	50#	9 ⁴⁵	10 ¹⁵	T.D. SURVEY + RIG SURVEY + BOP'S
KELZAN AL.	50#	10 ¹⁵	4 ⁰⁰	DRAG
GEL	200#			
DOWNHOLE	35#			
WATER	50 Bbls			
TOUR 3		4 ⁰⁰	4 ⁰⁰	DRILL
CHL		4 ⁰⁰	4 ³⁰	TELE DRIFT SURVEY
		4 ⁰⁰	7 ⁰⁰	DRILL
45 BBL WATER		7 ⁰⁰	7 ⁰⁰	CLEAN COUL. LUBRICATOR
		7 ⁰⁰	10 ³⁰	DRILL
		10 ⁰⁰	11 ⁰⁰	SURVEY SEA RIG + BOP
		11 ⁰⁰	12 ⁰⁰	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DESILTER	UNDERFLOW	OVERFLOW	SUCTION
2 ⁰⁰ A.M.	10.0	9.1	9.1
4 ⁰⁰ A.M.	10.2	9.1	9.1
6 ⁰⁰ A.M.	10.6	9.1	9.1
8 ⁰⁰ A.M.	10.6	9.1	9.1
10 ⁰⁰ A.M.	12.5 3 gm/ft gal	9.1	9.2 - 3
2 ⁰⁰ P.M.	11.7	9.2	9.1
6 ⁰⁰	12.2	9.2	9.1
8 ⁰⁰ P.M.	13.2	9.1	9.1
10 ⁰⁰ P.M.	13.1 4 gm/ft gal	9.1	9.1

REPORT
0.05
Gel
Min Gel 5
F.C.
ppm
ppm 1.66
DRD
Reading

2"	New Bit Reamer (Grout) Chart	22 Hrs	Cumulative	199 1/4"
1"	Christensen Blade Stabilizer #453	22 Hrs	"	222 1/4"
1 1/2"	" " " " #454	22 Hrs	"	222 1/2"
2 1/4"				

L. F. Gumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

S.O.B.C. 5H

FIELD **WILDCAT** WELL NAME **SHAEFFER**

LSD SEC TWP Rue W

MUD CHEMICALS A

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB. 12** 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO 39			NO 40	3736	50	NO 40		
SINGLE	DP	NO 5	371	396				NO 2	384	012
X OVER SUB	OD									
OTHER	OD									
DRILL COLLARS	16 7" OD		491	60		491	60		491	60
DRILL COLLARS	1 T.D. SUB	NO	11	98	NO	11	98	NO	11	98
REAMER	N.B.R. O.D.	KIND	380		KIND	380		KIND	380	
STABILIZER	CHRISTENSEN O.D.	KIND	927		KIND	927		KIND	927	
JARS		KIND			KIND			KIND		
BUMPER SUB		KIND			KIND			KIND		
BIT OR CORE BARREL										
TOTAL DP & TOOLS			4230	61		4292	70		4356	77
KELLY DOWN (BELOW R.B.)			40	30		40	30		36	23
DEPTH OF TOOLS			427	091		4333	00		4393	
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			4270	FEET		4333	FEET		4393	FEET
DEPTH START OF TOUR			4209	FEET		4270	FEET		4333	FEET
FOOTAGE DRILLED			61	FEET		63	FEET		60	FEET

TOUR	TIME
30 605 Wagon	
Water	2
Gas	2
Acid	
Chemical	

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450	64/1450
ROTARY SPEED	55	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	30	30	30	30	30	20	20	20	20	20	22	22
MUD WEIGHT	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.0	9.0	9.0	9.0
VISCOSITY	33	33	32	31	31	32	32	31	32	33	33	31
W.L.F.C.									11.2	10.2	10.2	10.2
p.H.									9.6	9.5	9.5	9.6
MUD LEVEL IN TANKS												

DESILTER
 2:00 A.M.
 4:00 A.M.
 6:00 A.M.
 11:00 A.M.
 3:00 P.M.
 6:00 P.M.
 9:00 P.M.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	BIT CONDITION
10	8 3/4	DE 820	H.W. J-44	3-10	3964	4270		

10	8 1/4	DE 820	H.W. J-44	3-10	60'4"	3964	4393	429	Running
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CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	K. CHRISTENSEN	A. CHAMBERS	H. SKINNER	Kind Depth Reading
DERRICKMAN	G. LONG	W. DUNNICKO	M. CHEWSKI	Total 4293 1 1/2
HELPER	B. JABS	G. HARRIS	V. Vogel	T.O. 4330 1 1/2
HELPER	D. TURNER	A. BIENZ	V. Vogel	LINE 4365 1 1/2
HELPER	R. EASTLAND	J. FLATO	W. WAGSTAFF	
FIREMAN				
TOOL PUSHER	J. Christensen			

14000 gal

Grant Chase
 Christensen ST

SOBC. SHAEFFER CKYT 1#

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	4 ⁰⁰	DRLG
		4 ⁰⁰	4⁰⁰	TELEDRIFT & WIRELINE SURVEY RIG SER.
		4 ⁴⁵	7 ⁴⁵	B.P.P., WORK on COMPONADS.
		7 ⁴⁵	8 ⁰⁰	DRLG
				TELEDRIFT SURVEY.
TOUR 2		8 ⁰⁰	10 ³⁰	DRLG.
	30 BBS Water.	10 ³⁰	10 ⁴⁵	Wk Survey
		10 ⁴⁵	11 ⁴⁵	RIG SURV 1301'S RIG SURVARS CROWNOMATIC
		11 ⁰⁰	4 ⁰⁰	DRLG
TOUR 3		4 ⁰⁰	4 ⁰⁰	DRILL
	Water	4 ⁰⁰	4 ⁰⁰	TELE DRIFT
	Gel	4 ⁰⁰	8 ⁰⁰	DRILL
	Acetone	8 ⁰⁰	9 ⁰⁰	Survey Sur. Rig + 1301'S
	Chemical	9 ⁰⁰	12⁰⁰	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES				
	DESILTER	UNDERFLOW	OVERFLOW	SUCTION.
2:00 A.M.		9.6	9.1	9.1
4:00 A.M.		9.7	9.0	9.0
6:00 A.M.		9.6	9.1	9.1
11:00 A.M.		11.2	9.0	9.1
3:00 P.M.		11.6	9.1	9.1
6:00 P.M.		11.8	9.0	9.1
9:00 P.M.		11.6	9.0	9.1

14000 gallons diesel delivered

Reading	Equipment	Time	Cumulative
1 1/2	Grant Chase Reamer (New Bit)	22 Hr	200 1/4 Hr
2 1/2	Christensen Stab # 453	22 Hr	200 1/2 Hr
1 1/2	" # 454	22 Hr	

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP**

RIG NO **15**

S.O.B.C. S

FIELD **WILDCAT**

WELL NAME **SHAEFFER**

LSD

SEC

TWP

Rge

W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 11 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO 38	358779	FT	NO 38	354779	FT	NO 39	368251	FT
SINGLE	D.P.	NO		FT	NO 1	3147	FT	NO		FT
X OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	16 7' O.D.		49160	FT		49160	FT		49160	FT
DRILL COLLARS	1 TD S.O.B.	NO	1198	FT	NO	1198	FT	NO	1198	FT
REAMER	N.B.R.	O.D.	380	FT	KIND	380	FT	KIND	380	FT
STABILIZER	2 CHRISTENSEN	KIND	927	FT	KIND	927	FT	KIND	927	FT
JARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			410494	FT		413591	FT		419916	FT
KELLY DOWN (BELOW R.B.)			2386	FT		3809	FT		984	FT
DEPTH OF TOOLS			412830	FT		417400	FT		420900	FT
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			4128	FEET		4174	FEET		4209	FEET
DEPTH START OF TOUR			4088	FEET		4128	FEET		4174	FEET
FOOTAGE DRILLED			40	FEET		46	FEET		35	FEET

TOUR
GEL
KELZAN
WATER

TOUR
GEL
KELZAN
WATER

TOUR
GEL
KELZAN
WATER

DESILTER
2:00 A.M.
1:00 P.M.
6:00 P.M.
10:00 P.M.
2:00 P.M.
5:00 P.M.

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	S.P.M. 64	D.S.I. 1350	64	1350	64	1350	64	1350	64	1350	64	1350
ROTARY SPEED	R.P.M.	55	55	55	55	55	55	55	55	55	55	40
WEIGHT ON BIT	M lbs	15	20	20	20	20	20	20	1 1/20	1 1/20	1 1/20	30
MUD WEIGHT	lb/gal	90	90	90	90	91	91	91	91	9.0	9.0	9.2
VISCOSITY	sec qt	30	30	30	31	32	32	32	32	33	32	34
W.L.F.C.	c.c./32nd					98	102	102	103	102	102	102
p.H.						8.5	9.5	9.8	9.8	9.6	9.6	
MUD LEVEL IN TANKS	Ft-ins											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	BIT CONDITION
10	8 3/4	DF820	H.W. J-44	3-10	38 1/2	3964	4209	2453000

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	FHP	ps	IFP	ps	Time	AM
FROM		ISI	mins	FHP	ps	IFP	ps	Mud Wt	Int. Gr
TO		VO	mins	ISIP	ps	GTS	ps	Vis	W.F.C.
Recovery		FSI	mins	FSTP	ps	FST	ps	AV	PH
HOURS		RECOVERY						P.V	Surf

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	K. CHRISTENSEN	A. CHAMBERS	H. SKINNEN	Kind	Depth	Reading
DERRICKMAN	E. KONG	W. DIAMBERO	W. CHEVSKI	TOLO	4112	2°
HELPER	B. TABS	G. HAZIER	P. VOGEL	TOID	4143	1°
HELPER	D. TURNER	A. BIZENZ	V. VOGEL	TO	4176	1 1/2°
HELPER	R. EASTLAND	J. FLATO	W. WINGSTAFF	TO	4207	1°
FIREMAN				line	4209	1 3/4°
TOOL PUSHER	James Foster					

GRANT CHERT REA
CHRISTENSEN

S.O.B.C. SHAEFFER CKYT # 0-22

1971
 N TOUR
 251 FT
 FT
 FT
 FT
 160 FT
 98 FT
 380 FT
 727 FT
 FT
 FT
 FT
 916 FT
 984 FT
 900 FT
 TOUR
 9 FEET
 4 FEET
 5 FEET
 HOURS
 P.M. 12:00 P.M.
 60
 14.2
 5 40
 2 30
 2 9.0
 3 34
 2 10.2
 6 9.6
 CONDITION
 REPORT
 Gel
 Min Gel
 F.C.
 d
 20 ppm
 20 ppm
 ORD
 Reading
 2°
 1°
 1 1/2
 1
 1 3/4

MUD and CHEMICALS ADDED				OTHER HOURLY OPERATING DETAIL		
Kind	Amount	From	To	WORK DONE		
TOUR 1				12:00	2:00	DRILL
GEL	200 #	2:00	2:15	WORK ON LUB. PUMP COMPOUNDS		
KELZAN	100 #	2:15	4:45	DRILL		
WATER	100 Bbls	4:45	5:15	SURVEY RIG SERVICE PIPE RAMPS, CROWN MATE		
		5:15	8:00	DRILL		
TOUR 2				8:00	10:30	DRILL
Gel	400 #	10:30		T.O.D SURVEY RIG SITE RIG 13012. RIG SURVEYS		
Kelzanz	100 #		11:00	CROWN MATE Kelly Cuck + 13 PIPES.		
Caustic	100 #	11:00	2:30	DRILL		
Downhole	30 #	2:30	2:45	W/IN CHAINS IN COMPOUNDS		
Water	100 Bbls	2:45	4:00	DRILL		
TOUR 3				4:00	4:30	DRILL
Gel	400 #	4:30	4:45	SURVEY SET RIG 13012		
KELZAN	50 #	4:45	11:00	DRILL		
WATER	50 Bbls	11:00	11:15	Tale Drift Survey		
		11:15	11:45	Wire Line Survey		
		11:45	12:00	DRILL		

CEMENTING TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DESILTER	UNDERFLOW	OVERFLOW	SUCTION
2:00 A.M.	9.4	9.0	9.0
4:00 A.M.	9.5	9.0	9.0
6:00 A.M.	9.5	9.0	9.1
10:00 A.M.	9.5	9.0	9.1
2:00 P.M.	9.5	9.0	9.1
5:00 P.M.	9.5	9.0	9.1

GRANT CHERT READER (NEAR BIT) 21 1/2 HR, CUMULATIVE 155 1/4 HR.
 CHRISTENSEN STAB # 453 21 1/2 HR, " 198 1/4 HR
 " " # 454 21 1/2 HR, " 178 1/2 HR.

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **WILDCAT.** WELL NAME **N-66-42** LSD SEC TWP Rge W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 10 1971**

SUBC. Wm.
 MUD CHEMICALS AD

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR									
STANDS	DP	NO. 36	3398	22	FT	NO. 36	3398	22	FT	NO. 37							
SINGLE	DP	NO. 1			3128	FT	NO. 1			3128	FT	NO. 2	3556	03	FT		
X-OVER SUB	OD					FT	NO. 37	3208	55	FT							
OTHER	OD					FT	NO			FT							
DRILL COLLARS	16" 7' O.D.		4491	60	FT			491	60	FT			491	60	FT		
DRILL COLLARS	T.D. SUB				1198	FT	NO			1198	FT	NO			1198	FT	
REAMER	N.B.P. O.D.				380	FT				380	FT				380	FT	
STABILIZER	2" CHRISTENSEN O.D.				927	FT				927	FT				927	FT	
JARS						FT					FT					FT	
BUMPER SUB.						FT					FT					FT	
BIT OR CORE BARREL						FT					FT					FT	
TOTAL DP & TOOLS			3946	15	FT			4009	07	FT			4072	68	FT		
KELLY DOWN (BELOW R.B.)					4030	FT				3193	FT				1630	FT	
DEPTH OF TOOLS			3986	15	FT			4041	00	FT			4088	98	FT		

TOUR
 GEL 2
 KELZAN
 WATER.

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	3986 FEET	4041 FEET	4088 FEET
DEPTH START OF TOUR	3964 FEET	3986 FEET	4041 FEET
FOOTAGE DRILLED	22 FEET	55 FEET	47 FEET

TOUR
 GEL 4
 KELZAN AL.
 CAUSTIC
 DOWNING C
 WATER 3

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP			63	63	64	64	64	64	64	64	64	64
ROTARY SPEED			55	56	55	55	55	55	55	55	55	55
WEIGHT ON BIT			10-18	18	18/20	18/20	18/20	18/20	15	15	15	15
MUD WEIGHT			9.1	9.1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.9
VISCOSITY			32	32	32	32	32	32	33	32	32	32
W.L./F.C.							9.5		9.5	9.5	9.5	9.5

TOUR
 GEL 2
 KELZAN
 WATER 5

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
10	8 3/4	DF820	H.W. J 44	3-10	18	3964	4088	124 7.1	

DISPERSE
 T. UNDERFLOW
 12:00pm 9.4
 2:00pm 9.5
 6:00pm 9.4
 10:00pm 9.4

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
			PREFLOW	mins	IHP	ps	TEMP	AM
			FROM	mins	FHP	ps	FEP	PM
			TO	mins	ISIP	ps	GTS	Int. Gr.
			RECOVERY	mins	FSIP	ps	FTS	10 Min. Gr.
								W.F.C.
								PH
								Sp. Gr.
								CA. App.
								ppm

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	K CHRISTENSEN	R CHAMBERS	A SK. JENSEN	Kind	Depth	Reading
DERRICKMAN	G. LANE	W. DEWICKO	M. CHEUSKI	Line	4049	2 1/4
HELPER	B. JABS	G. HAZIER	P. VOGEL	Log	4080	1 1/2
HELPER	D. TURNER	A. BIEDZ	V. VOGEL			
HELPER	R. EASTLAND	J. FLATO	W. WAGSTAFF			
FIREMAN						
TOOL PUSHER						

GRANT CHERT RE
 CHRISTENSEN STAB
 CHRISTENSEN STA

SUBC. Wm. SHAEFFER, CK 4T 0-22

MUD & CHEMICALS ADDED				OTHER HOURLY OPERATING DETAIL WORK DONE		
Kind	Amount	From	To			
TOUR 1				12 ⁰⁰	12 ³⁰	FINISH HOISTING
GEL	200#	12 ³⁰	1 ⁰⁰	CLOSE BLIND RAMS & RIG SERVICE.		
KELZAN	50#	1 ⁰⁰	2 ⁰⁰	SLIP & CUT D-LINE.		
WATER	50 BBL	2 ⁰⁰	3 ³⁰	RUN IN BIT 10"		
		3 ³⁰	4 ⁰⁰	PUT ON KELLY HOSE BREAK CIRC.		
		4 ⁰⁰	5 ³⁰	REAMING FROM 3828' TIGHT SPOTS.		
		5 ³⁰	8 ⁰⁰	DRAG.		
TOUR 2				8 ⁰⁰	8 ¹⁵	T.O. SURVEY
GEL	400#	8 ¹⁵	12 ⁰⁰	DRAG		
KELZAN AL	100#	12 ⁰⁰	12 ³⁰	RIG SHUT DOWN RIG SURVEY KIRBY COCK.		
CAUSTIC	100#	12 ³⁰	4 ⁰⁰	DRAG		
DOWNSIDE "G"	35#					
WATER	50 BBL					
TOUR 3				4 ⁰⁰	4 ⁴⁵	DRILL
GEL	200#	4 ⁴⁵	5 ¹⁵	SURVEY SEARCHING - 500'		
KELZAN	50#	5 ¹⁵	10 ⁰⁰	DRILL		
WATER	50 BBL	10 ⁰⁰	10 ⁰⁰	SURVEY		
		10 ⁰⁰	12 ⁰⁰	DRILL		

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DISSIPATER

	TO UNDERFLOW	Suction	DISCHARGE
12:00 PM	9.4	9.1*	8.9
2:00 PM	9.5	9.0	8.9
6:00 PM	9.4	9.2	9.0
10:00 PM	9.4	9.1	9.0

Reading	HR.	CUMULATIVE
2 1/4	17	133 3/4 HR
1 1/2	17	150 3/4 HR
	17	157 HR

GRANT CHERT REAMER (NEAR BIT)
CHRISTENSEN STAB #453
CHRISTENSEN STAB #454

W. A. Bunker
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.**

RIG NO **#15**

FIELD **WILCOAT** WELL NAME **N66-42** LSD SEC TWP Rge W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 9, 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO 35	3303	11 FT	NO 35			NO 36	3398	22 FT
SINGLE	D.P.	NO		FT	NO 2	3366	29 FT	NO 1	3128	FT
X OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	O.D.	14	491	60 FT		491	60 FT		491	60 FT
DRILL COLLARS	O.D.	14	491	60 FT		491	60 FT		491	60 FT
REAMER	O.D.	12 B.A.	380	FT		380	FT		380	FT
STABILIZER	O.D.	3 AMPSTONSON	927	FT		927	FT		927	FT
JARS				FT			FT			FT
BUMPER SUB				FT			FT			FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			3819	76 FT		3882	94 FT		3946	15 FT
KELLY DOWN (BELOW R.B.)			113	0 FT		2930	FT		1785	FT
DEPTH OF TOOLS			3831	06 FT		3912	24 FT		3964	00 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	3831 FEET	3912 FEET	3964 FEET
DEPTH START OF TOUR	3745 FEET	3831 FEET	3912 FEET
FOOTAGE DRILLED	86 FEET	81 FEET	52 FEET

DAY WORK	HOURS								HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500	64/1500
ROTARY SPEED	25	55	55	25	55	55	55	55	55	55	55	55
WEIGHT ON BIT	15	15	15	15	15	15	15	15	15	15	15	15
MUD WEIGHT	9.1	11	9.1	9	9.2	9.2	9.2	9.2	9.1	9.1	9.1	9.1
VISCOSITY	34	33	32		32	32	32	32	32	32	32	32
W.L.F.C.									9.2	9.2		
pH									8.5			

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
9	8 3/4	248409	SECURITY 888	2-10 3-10	168 81	2485	3831	836	1W 1-2-1

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
					Time	AM	PA	Wt	Vis
					Mud Wt	10 Am	10 Am		
					Vis	Wt			
					AV	PH			
					PV	SPH			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	Ed KARWACHUK	K. CHRISTENSEN	A. CUMBERS	Kind	Depth	Reading
DERRICKMAN	Les WHITING	E. LONG	W. DIMILIKO	TELE	3763	1 1/2
HELPER	Dorothy MCGUANE	B. JABS	G. HAZIER	TELE	3795	2 1/4
HELPER	GLENN TALORSON	D. TURNER	A. BENZ	TELE	3828	1 1/2
HELPER	Jim WANDLER	R. EASTLAND	J. FLATO	WIRE	3891	2°
FIREMAN				TID	3920	1 1/2
TOOL PUSHER	James Ansel			TID	3950	1 1/2

SOSC WIN
MUD CHEMICALS A
TOUR
KARAN
WATER
TOUR
GEE
KELLY M
CASTLE
DORSEY
WATER
TOUR
GEE
KELLY M
WATER
TOUR
GEE
KELLY M
WATER
DESILTER
8.00
12.00
2.00
6.00
GRANT CHEST REAMER
CHRISTENSEN

5080 WIN SHEFFER V T O 22

1971
 N TOUR
 8 22 FT
 1 28 FT
 FT
 FT
 1 60 FT
 1 98 FT
 3 80 FT
 9 27 FT
 FT
 FT
 FT
 6 15 FT
 7 85 FT
 4 00 FT
 TOUR
 4 FEET
 2 FEET
 2 FEET
 HOURS
 PM 12:00 PM
 TRIP
 2:00 AM
 6:00 AM
 6:00 AM
 1
 S REPORT
 1/2
 2/8
 1/2
 1 2°
 1 1/2
 1 1/2

MUD & CHEMICALS ADDED			From		To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount					
TOUR 1		1200	415	415		DRILLING
KALCAN			415	415		SURVEY
Water	1000		500	800		118 Soil Pipe Core
TOUR 2			800	1015		DRILL
GEL	4SK		1015	1045		SURVEY, RIG SERVICE BOP / BRAKE
KALCAN AL	2SK		1045	130		DRILL
CRUSTIC	1SK		130	200		WIRELINE SURVEY @ 3891' 2°
DOUBLE G	43 BBL		200	400		DRILL
WATER	100 BBL					
TOUR 3			400	445		DRILL
GEL	200		445	510		TID SURVEY
KALCAN AL	50		510	510		RIG SURV
WATER	50 BBL		510	800		DRILL
			800	815		TID SURVEY
			815	940		DRILL
			940	1000		SURVEY
			1000	1200		HOIST & DOUBLE DRILLER OUT

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Time	Disilten	Suction	Vis	Underflow	Vis	Underflow	Vis
2:00 AM		9.1	3.1	9.5	3.4	9.0	3.4
6:00 AM		1.1	2.2	7.5	3.2	7.5	3.2
6:00 AM		9.1		9.0		9.0	

DESILTER WTS.	OVERFLOW	UNDERFLOW
8:00 A.M.	9.2	10.6
12:00 P.M.	9.1	10.1
2:00 P.M.	9.1	10.3
6:00 P.M.	9.1	9.2

GRANT CHEST REAMER (NEAR BOT)	19 1/4	HR.	CUMULATIVE	116 3/4	HR.
CHRISTENSEN SAG # 453	19 1/4	HR.	"	139 3/4	HR.
" # 451	19 1/4	HR.	"	140	HR.

Mike Borten
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR

G.P

RIG NO #15

SORE WIND

FIELD **WILCOAT**

WELL NAME **NU60-42**

LSD

SEC

TWP

Ran

W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

FEB 8

1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR							
STANDS	DP	NO	33 301818			FT	NO	33 311308			FT	NO	34 320855			FT	
SINGLE	DP	NO				FT	NO				FT	NO				FT	
X OVER SUB	OD					FT					FT					FT	
OTHER	OD					FT					FT					FT	
DRILL COLLARS	OD	16	049060			FT		49160			FT		49160			FT	
DRILL COLLARS	OD	TO	1198			FT	NO	1198			FT	NO	1198			FT	
REAMER	OD	NR	380			FT	KIND	380			FT	KIND	380			FT	
STABILIZER	OD	CHRISTENSEN	927			FT	KIND	927			FT	KIND	927			FT	
JARS						FT	KIND				FT	KIND				FT	
BUMPER SUB						FT	KIND				FT	KIND				FT	
BIT OR CORE BARREL						FT					FT					FT	
TOTAL D.P. & TOOLS			353483			FT		362973			FT		372520			FT	
KELLY DOWN (BELOW R.B.)			1030			FT		2627			FT		1980			FT	
DEPTH OF TOOLS			357513			FT		365600			FT		374500			FT	
TOUR			MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR						
DEPTH END OF TOUR			3575				FEET	3656				FEET	3745				FEET
DEPTH START OF TOUR			3510				FEET	3575				FEET	3656				FEET
FOOTAGE DRILLED			65				FEET	81				FEET	89				FEET

TOUR
 10
 42
 100

TOUR
 AL
 6

TOUR
 2

DAY WORK	HOURS												
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM	
PUMP	64	64	64	63	63	63	63	63	63	53	53	53	64
ROTARY SPEED	55	55	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	15-10	15	15	15	15	20	20	20	20	15	15	15	15
MUD WEIGHT	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
VISCOSITY	32	32	33	33	32	31	32	32	32	32	32	32	32
FL F.C.													9.1

9.1

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET SIZES IN 1/32	TOTAL FEET	TO
9	8 3/4	248907	SECURITY 8 3/4	3-10	61 3/8	2945 3745

8.2

RE	No	No	DST No	PROV	NO	NO	NO	NO

ATTENDANCE	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed Krauchuk & Christensen		A. Chamerics
RICKMAN	Los waiting G. Long		W. Drivirko To 3542 2 3/4
OPERATOR	Denny McQuigg B. Jabs		G. Hubler To 3575 2
TRIPMAN	Glean Jacobson J. Graham		A. Brunz To 3725 1 1/2
LOGGERS	Jim Wankoff D. Turner		J. Flato To 3669 1
			U.L. 3695 2 1/4
			T.O. 3730 1 1/2

GRANT Christensen
 Christensen STAB
 Christensen STAB

SORC WIN SHAFFER YI 022

MUD CHEMICALS ADDED				OTHER HOURLY OPERATING DETAIL	
Year	Amount	From	To	WORK DONE	
1971		12 ⁰⁰	2 ⁴⁵	Drilling 3 3/4 Hole	
ON TOUR		12 ⁴⁵	3 ¹⁵	SURVEY @ 3543	
8 ⁵⁵ FT	100 ⁰⁰	3 ¹⁵	3 ³⁰	BIG SEA MUDMIX	
FT	400 ⁰⁰	3 ³⁰	7 ³⁰	DATE	
FT	120 ⁰⁰	7 ³⁰	8 ⁰⁰	SURVEY	
FT					
1 ⁶⁰ FT					
1 ⁹⁸ FT					
3 ⁸⁰ FT		8 ⁰⁰	10 ⁴⁵	DRAG	
9 ²⁷ FT	AL 1	10 ⁴⁵		TELEDRIFT & WIRELINE SURVEY @ 3606 1 7/8	
FT			11 ¹⁵	RIG SERVICE, B.O.P.	
FT		11 ¹⁵	1 ⁴⁵	DRAG	
FT	G	1 ⁴⁵		WORK ON MVD MANIFOLD & CHANGE	
5 ²⁰ FT		2 ³⁰	4 ⁰⁰	Pumps	
9 ⁸⁰ FT				DRAG	
5 ⁰⁰ FT		4 ⁰⁰	7 ⁰⁰	DRAG	
TOUR		5 ⁰⁰	5 ¹⁵	T.D SURVEY	
5 ^T FEET		5 ¹⁵	7 ⁴²	DRAG	
6 FEET		7 ⁴²	8 ⁰⁰	T.D SURVEY	
9 FEET		8 ⁰⁰	8 ¹²	BIG SEA	
		8 ¹²	10 ²⁰	DRAG	
		10 ²⁰	10 ⁴²	T.D SURVEY	
		10 ⁴²	12 ⁰⁰	DRAG	

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Displacement	Vis	Druiden F	Vis	Temperature	Vis
200 ⁰⁰	91	101	2	44	30
200 ⁰⁰	100	103	33	30	30

NOTION	8.00 11.9.1	2	10.1	2	10.1
	10.00 11.9.1	2	10.1	2	10.1

REPORT	GRANT (NEAR BIT)	20 1/2 HR, Cum.	97 1/2 HR
	CHRISTENSEN STAB # 453	20 1/2 HR, Cum	120 1/2 HR.
	CHRISTENSEN STAB # 454	20 1/2 HR, Cum.	170 3/4 HR.

Mr. Burtson
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P** RIG NO **#15**

FIELD **WILBCAT** WELL NAME **N66-42** LSD SEC TWP Rpt W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 7 1971**

SOLUBLE
MUD CHEMICALS ADD

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO. 29	279676 FT	NO 30	NO 31 242365 FT
SINGLE D.P. NO. 2		NO 2	289164 FT NO 1 3160 FT
X OVER SUB O.D.			
OTHER O.D.			
TRILL COLLARS O.D. 14	49160 FT	49160 FT	49160 FT
DRILL COLLARS T.O. O.D. NO.	1198 FT	NO 1198 FT	NO 1198 FT
REAMER N.B.R. O.D. KIND	380 FT	380 FT	380 FT
STABILIZER CHRISTENSEN O.D. KIND	927 FT	927 FT	927 FT
JARS KIND			
BUMPER SUB KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	331341 FT	340829 FT	347100 FT
KELLY DOWN (BELOW R.B.)	3530 FT	3571 FT	3900 FT
DEPTH OF TOOLS	334871 FT	344400 FT	351000 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	3348 FEET	3444 FEET	3510 FEET
DEPTH START OF TOUR	3248 FEET	3348 FEET	3444 FEET
FOOTAGE DRILLED	100 FEET	96 FEET	66 FEET

TOUR
 KELLY
 50
 TOUR
 GEL 2
 KELZAN
 CAUSTIC
 DOUNICIDE 1/2
 WATER 50

DAY WORK	HOURS						HOURS						HOURS	
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.		
PUMP sp.m. PSI	64 1250	64 1250	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500		
ROTARY SPEED R.P.M.	55	55	55	55	55	55	55	35	25	55	35	35		
WEIGHT ON BIT M.lbs.	20	20	20	20	20	20	20	20	20	20	15	15		
MUD WEIGHT lb/gal	8.8	8.8	8.8	8.8	8.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8		
VISCOSITY sec/cst	32	32	32	32	32	32	32	32	32	32	32	32		
W.L.F.C. cc/32nd														
p.H.														
MUD LEVEL IN TANKS Ft. Ins.														

TOUR
 M. G. H. 5
 GEL 2
 DISC
 200
 6

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	BIT CONDITION
9	8 3/4	248409	SECURITY SSB	3-10	4 1/2	2995	3510	515 DRLG

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT
TYPE		PREFLOW	min. F.P.	max. F.P.	min. Time
FROM		FSI	min. F.P.	max. F.P.	min. Time
TO		V.O.	min. F.P.	max. F.P.	min. Time
Recovery		FSI	min. F.P.	max. F.P.	min. Time
HOURS		RECOVERY			

SURFACES
 T.O. 3445
 W.H. 3475
 W.H. 3505

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	E.S. KAWACHUK	K. CHRISTENSEN	A. CHAMBERS	TELE	3259	2
MERRICKMAN	LES WHITING	G. KING	W. DIAMIKO	TELE	3280	2
HELPER	DANNY McANE	B. TABS	G. HUBER	TELE	3322	1 1/2
HELPER	GEOFF JACOBSON	J. GRAMM	A. BIRN	TELE	3353	1 1/2
HELPER	LIM WANDLER	D. TURNER	J. FLATO	TELE	3370	2
PREMAN				TELE	3416	1 1/2
CORE PUSHER						

REAMERS - STABILIZER
 GRANT CHERT REAMER
 CHRISTENSEN STAB
 CHRISTENSEN STAB

SORLWM SHAEFFER Y.T. 0-22.

1971
ON TOUR
3 65 FT
1 60 FT
1 60 FT
1 60 FT
1 98 FT
2 80 FT
9 27 FT
1 50 FT
9 00 FT
0 00 FT
TOUR
0 FEET
4 FEET
6 FEET
HOURS
P.M. 12:00 P.M.

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12:00	12:15	RIG SEAR PIPE REMOVED
KALZAN	50#	12:15	3:45	DRILLING 8 3/4" HOLE
GEL	200#	4:15	6:00	SURVEY @ 3280
WATER	50 BBLs	6:00	6:30	DRILLING
		6:30	8:00	WORK ON MUD LINE
				DRILLING
TOUR 2		8:00	8:15	DRAG.
GEL	200#	8:15	8:30	TELEDRIFT SURVEY
KALZAN	50#	8:30	10:30	DRAG.
CAUSTIC	50#	10:30	11:00	RIG SERVICE & B.O.P. ✓ BRAKE ✓
DOWNCIDE 1/2	50 BBLs	11:00	1:00	DRAG.
WATER	50 BBLs	1:00	1:15	TELEDRIFT SURVEY.
		1:15	4:00	DRAG.
TOUR 3		4:00	4:15	T.D. SURVEY
		4:15	7:30	DRAG.
KALZAN	50#	7:30	7:45	SURVEY @ RIG 3220
GEL	200#	8:00	11:45	DRAG.
		11:45	12:00	SURVEY

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

	Discharge	Under	Discharge	
200#	8.7	4.7	3.3	33
600#	8.45	3.2	3.2	32

SURVEYS
T.D. 3445 - 2°
W.H. 3475 2 3/4°
W.H. 3505 2 1/4°

REAMERS & STABILIZERS
GRANT CHEST REAMER (NEAR BIT) 20 3/4 HR CUMULATIVE
CHRISTENSEN STAB # 453 20 3/4 HR CUMULATIVE
CHRISTENSEN STAB # 454 20 3/4 HR CUMULATIVE

Signature: [Handwritten Signature]
SIGNATURE COMPANY ENGI

TOUR REPORT

CONTRACTOR **C.P.**

RIG NO **115**

SOBC WITH SHAL

FIELD **Wilcox**

WELL NAME **N66-42**

LSD

SEC

TWP

R#

W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

Feb 6

1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR				
STANDS	D.P.	NO.	251	347	FT	NO. 27			NO. 27	2639	93	FT
SINGLE	D.P.	NO.			FT	NO. 2	2608	03	NO. 2	63	40	FT
X OVER SUB	OD				FT							FT
OTHER	OD				FT							FT
DRILL COLLARS	OD	14	400	60	FT		491	60		491	60	FT
DRILL COLLARS	T.O. O.D.	NO.	11	98	FT	NO.	11	98	NO.	11	16	FT
REAMER	N.B.R. O.D.	KIND		380	FT	KIND		380	KIND		380	FT
STABILIZER	CHRISTENSEN O.D.	KIND		927	FT	KIND		927	KIND		927	FT
JARS					FT							FT
BUMPER SUB					FT							FT
BIT OR CORE BARREL					FT							FT
TOTAL D.P. & TOOLS			3030	12	FT		3124	68		3219	89	FT
KELLY DOWN (BELOW R.B.)			3330		FT		4030			2802		FT
DEPTH OF TOOLS			3063	42	FT		3164	98		3248	00	FT

TOUR	DEPTH
MORNING TOUR	3063 FEET
DAYLIGHT TOUR	3164 FEET
AFTERNOON TOUR	3248 FEET

	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	64	64	64	64	64	64	64	64	64	64	64	64
ROTARY SPEED	55	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	20	20.25	20.25	20	20	20	20	20	20	20	20	20
MUD WEIGHT	8.6	8.7	8.7	8.7	8.7	8.8	8.8	8.9	8.9	8.8	8.7	8.7
VISCOSITY	33	32	32	32	32	32	31	31	31	31	31	31
W.L.F.C.												
pH												9

2 AM
6 AM
10 AM
2 PM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOOTH INCHES	FROM	TO	FEET	BIT NUMBER
9	8 3/4	248109	SECURITY 584	3-10	706	2945	3248	253	DRLE

CORE No.	No.	DST No.	FROM	TO	FEET	REMARKS

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
	DRILLER	DECKMAN	HELPER	DRILLER	DECKMAN	HELPER	DRILLER	DECKMAN	HELPER
	Ed Karwinski	Chris Christensen	Tom Wancher	Chris Christensen	Ed Karwinski	Tom Wancher	Chris Christensen	Ed Karwinski	Tom Wancher
	W. Danika	C. Long	P. Turner	W. Danika	C. Long	P. Turner	W. Danika	C. Long	P. Turner
	S. Harbuz	B. Jans	J. Flato	S. Harbuz	B. Jans	J. Flato	S. Harbuz	B. Jans	J. Flato
	R. Bruz	J. Graham		R. Bruz	J. Graham		R. Bruz	J. Graham	

4-1-71
10-2-71

REMARKS & STABILIZER
GRANT CHERT RE
CHRISTENSEN ST
CHRISTENSEN ST

TOUR REPORT

CONTRACTOR **C.P.**

RIG NO **115**

SOBC WITH SHAL

FIELD **Wilcox**

WELL NAME **N66-42**

LSD

SEC

TWP

R#

W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

Feb 6

1971

MUD CHEMICALS A

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR				
STANDS	D.P.	NO.	251	347	FT	NO. 27			NO. 27	2639	93	FT
SINGLE	D.P.	NO.			FT	NO. 2	2608	03	NO. 2	63	40	FT
X OVER SUB	OD				FT							FT
OTHER	OD				FT							FT
DRILL COLLARS	OD	14	400	60	FT		491	60		491	60	FT
DRILL COLLARS	T.O. OD	NO.	11	98	FT	NO.	11	98	NO.	11	16	FT
REAMER	N.B.R. OD	KIND		380	FT	KIND		380	KIND		380	FT
STABILIZER	CHRISTENSEN OD	KIND		927	FT	KIND		927	KIND		927	FT
JARS					FT							FT
BUMPER SUB					FT							FT
BIT OR CORE BARREL					FT							FT
TOTAL D.P. & TOOLS			3030	12	FT		3124	68		3219	89	FT
KELLY DOWN (BELOW R.B.)			3330		FT		4030			2802		FT
DEPTH OF TOOLS			3063	42	FT		3164	98		3248	00	FT

TOUR	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED
MORNING TOUR	3063 FEET	2995 FEET	68 FEET
DAYLIGHT TOUR	3164 FEET	3063 FEET	101 FEET
AFTERNOON TOUR	3248 FEET	3164 FEET	84 FEET

	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	64	64	64	64	64	64	64	64	64	64	64	64
ROTARY SPEED	55	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	20	20.25	20.25	20	20	20	20	20	20	20	20	20
MUD WEIGHT	8.6	8.7	8.7	8.7	8.7	8.8	8.8	8.9	8.9	8.8	8.7	8.7
VISCOSITY	33	32	32	32	32	32	31	30	29	28	28	28
W.L.F.C.										13.4		
pH										9		

2 AM
6 AM
10 AM
2 PM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	BIT SIZES IN 1/2"	TOTAL HOURS	FROM	TO	REMARKS	BIT NUMBER
9	8 3/4	248109	SECURITY 584	3-10	70 1/2	2945	3248	253	DRILL

CORE No.	No.	DST No.	FROM	TO	REMARKS

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
	DRILLER	DERRICKMAN	HELPER	DRILLER	DERRICKMAN	HELPER	DRILLER	DERRICKMAN	HELPER
	Ed Karwinski	C. Long	D. J. Adams	A. Chambers	W. Danika	S. Harbuz			
	Tom Wancher	P. Turner							

DEVIATION RECORD

Kind	Depth	Reading
TELE	3038	1 1/2
TELE	3070	1 1/2
WIRE	3100	1 1/2
TELE	3164	1 1/2
TIP-TOE	3190	2 1/8
TILE	3225	2°

REMARKS & STABILIZER
GRANT CHERT RE
CHRISTENSEN ST
CHRISTENSEN ST

TOUR REPORT

CONTRACTOR **C.F.** RIG NO **#15**

FIELD **WILBCAT** WELL NAME **N66-42** LSD SEC TWP Rge W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 2** 1971

SOBC WM SH

MU... CHEMICALS AD

TOUR

*Christie
KELSA AL
Gel*

TOUR :

50 BBLs WA
FOO
GEL
KELZAN
DOWICIDE 1/2 P

TOUR :

*Ch...
K...
W...*

TOUR :

*Ch...
K...
W...*

*2
6
8
12
4
7*

*9.5
4.0*

*2424 2854 430
2424 2995 571*

*11.2
1.2*

1.2

*CHRISTENSEN STRAIB
#453
#454
GRAN JERRY REAMER*

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO 24	232473	FT	NO 25		FT	NO 26	245055	FT
SINGLE	DP	NO 2		FT	NO 3	241856	FT	NO		FT
X OVER SUB	OD			FT			FT			FT
OTHER	OD	STAB	027	FT			FT			FT
DRILL COLLARS	OD	16	49160	FT	16	49160	FT		49160	FT
DRILL COLLARS	T.O	NO	1198	FT	NO TD	1198	FT	NO	1198	FT
REAMER	W.B.R	KIND	380	FT	W.B.R.	390	FT	KIND	380	FT
STABILIZER	W.D	KIND	927	FT	W.D.	927	FT	KIND	927	FT
JARS		KIND		FT			FT	KIND		FT
BUMPER SUB		KIND		FT			FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL DP & TOOLS			294198	FT		293521	FT		296700	FT
KELLY DOWN (BELOW R.B.)			1330	FT		2730	FT		2800	FT
DEPTH OF TOOLS			285428	FT		296251	FT		299800	FT
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			2854	FEET		2962	FEET		2995	FEET
DEPTH START OF TOUR			2730	FEET		2854	FEET		2962	FEET
FOOTAGE DRILLED			124	FEET		108	FEET		33	FEET

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	64 1200	64 1200	64 1200	64 1200	64 1250	64 1250	64 1250	64 1200	64 1200			
ROTARY SPEED	55	55	55	55	55	55	55	55	55			
WEIGHT ON BIT	15	15	15	15	20	20	20	20	20			
MUD WEIGHT	8.4	8.2	8.4	8.4	8.5	8.5	8.5	8.6	8.5			
VISCOSITY	35	35	32	32	32	32	32	33	34			
W.L.F.C.									11.2			
p.H.									9.5			
MUD LEVEL IN TANKS									4.0			

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
8	8 3/4	228379	SICL 588	3-10	27	2424	2854	430	11.2
9	8 3/4	245409	SICL 588	3/10	353.4	2424	2995	571	1.2

CORE No.	No.	DST No.	FROM		TO		MUD ENGINEER'S REPORT	
			min	HP	min	HP	min	HP
TYPE		PREFLOW						
FROM		ISI						
TO		VO						
Recovery		FSI						
HOURS		RECOVERY						

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
	Kind	Depth	Reading	Kind	Depth	Reading
DRILLER	Ed MAWCHUK	K CHRISTENSEN	A CHAMBERS	TELE	2756	1 1/2
DERRICKMAN	LES WHITING	G LONG	W. DAMICO	TELE	2786	2
HELPER	D. CURIG	B TABS	G HABIB	TELE	2786	1 1/2
HELPER	BLAND JACOBSON	J GRAHAM	A BILWZ	TELE	2814	1 1/2
HELPER	JIM WANDLER	D TURNER	J FLRTD.	TELE	2850	1
FIREMAN						
TOOL PUSHER						

SOBC WM SHAEFFER CK 4T 0-22.

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
ON TOUR	FEET	Amount				
55	FT	Caustic 25"		1:00	1:15	DRILLING 8 3/4 HOLES
	FT	Kalsam RL 100"		1:15	1:30	RIG SERVICE PIPE FINISH
	FT	Mel 100"		1:30	2:45	DRLG
	FT					SURVEY @ 2780
	FT					DRILLING
60	FT					
198	FT			8:00	9:15	DRLG
380	FT			9:15		WIRELIN SURVEY @ 2880 1 7/8", RIG SERVICE
927	FT	50 BBL WATER			9:45	BOP ✓ BRAKE ✓
	FT	CEL 100"		9:45	11:30	DRLG
	FT	KELZAN 50"		11:30	11:45	TELEDRIFT SURVEY
	FT	DOWICIDE 1/2 30 BBL		11:45	1:30	DRLG
7:00	FT			1:30	1:45	BLEED PUMP. PUT No. 2 ON HOLES.
8:00	FT			1:45	2:45	DRLG
9:00	FT			2:45	3:00	DRLG
9:00	FT			3:00	4:00	DRLG
	FT			4:00	4:15	DRLG
	FEET	CEL 200"		4:15	5:15	T.17 + Totco SURVEY + RIG SURVEY
	FEET	KELZAN 100"		5:15	6:45	DRLG
	FEET	WATER 50 BBL		6:45	7:00	PIPE W/ PIPE
	FEET			7:00	7:15	SURVEY
	FEET			7:15	9:30	HOIST 1317 @ 2995
	HOURS			9:30	11:00	Pump 1W
0 P.M.	12:00 P.M.			11:00	12:00	Log Down S. SANDS THANK KILLY HOOD + BRIDE ORC

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DISSILTON

	SUCTION	VIS	UNDER	VIS	DISCHARGE	VIS
2 A.M.	8.2	35	8.7	36	7.4	35
6 A.M.	8.4	32	8.8	33	8.4	32
8 A.M.	8.4	33	9.6	33	8.4	33
12 P.M.	8.5	32	9.7			
4 P.M.	8.6	33	9.4	34	8.5	34
7 P.M.	8.5	32	9.4	33	8.4	34

SURVEYS - WIRELIN 1 7/8" 2940'
 TELEDRIFT 1 1/2" 2913'
 TELEDRIFT 1 1/2" 2944'
 TOTCO 2" 2970'

CHRISTENSEN STABILIZERS

1 1/2"	# 453	- 16	HRS	58 3/4	Com HRS
2"	# 454	- 16	HRS	58 3/4	Com HRS
1 1/2"	GRAN SLURRY BLENDER	- 16	HRS	59	Com HRS

M. B. Butler
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **C.P.** RIG NO **#15**

FIELD **WILD CAT** WELL NAME **N66-42** LSD SEC TWP Rpt W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **FEB 4 1971**

SBC WM SH
MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS .. D.P. NO 20	194841 FT	NO 21 2	NO 23 216846 FT
SINGLE .. D.P. NO 2		NO 2 240306 FT	NO 1 3024 FT
X OVER SUB .. O.D.			
OTHER .. O.D. SIAS	927 FT		
DRILL COLLARS .. O.D. 16	49160 FT	16 49160 FT	16 49160 FT
DRILL COLLARS T10 .. O.D. NO	1198 FT	NO 1198 FT	NO 1198 FT
REAMER NBR .. O.D. KIND	380 FT	KIND 380 FT	KIND 380 FT
STABILIZER 3 CHRISTENSEN 7" .. O.D. KIND		KIND 927 FT	KIND 927 FT
JARS			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	246506 FT	255971 FT	271500 FT
KELLY DOWN (BELOW R.B.)	2030 FT	4030 FT	1500 FT
DEPTH OF TOOLS	248536 FT	256001 FT	273030 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		2500 FEET	2730 FEET
DEPTH START OF TOUR	2424 FEET	2485 FEET	2600 FEET
FOOTAGE DRILLED		115 FEET	130 FEET

TOUR 1
 100' DEWICK
 50' CAUSTIC
 250' REASONAL
 3 SK. GEL
 TOUR 2
 TOUR 3
 TOUR 4
 TOUR 5
 TOUR 6
 TOUR 7
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 TOUR 99
 TOUR 100

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP S.P.M. D.S.I.	64 1250	64 1250	64 1250	63 1250	63 1250	63 1150	63 1150	64 1400	64 1200	64 1200	64 1200	64 1200
ROTARY SPEED R.P.M.	37	37	37	37	37	55	55	55	55	55	55	55
WEIGHT ON BIT M.lbs.	20.25	12.15	12.15	15	15	20	25	25	15	15	15	15
MUD WEIGHT lb.gal.	8.2	8.2	8.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.4	8.4
VISCOSITY sec.qt.	35	35	35	35	35	35	35	35	35	35	35	35
W.L.F.C. 12.3 c. 32nd											12.3	9.5
pH 9.5												
MUD LEVEL IN TANKS Ft. Ins.												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	BIT SIZES IN IN.	TOTAL FEET	FROM	TO	FEET	BIT LENGTH
8	8 3/4	228377	SEC 588	3-10	644	2424	2495	61	IN
8	8 3/4	"	SEC 588	3-10	1936		2730	306	IN

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT
TYPE		PREFLOW	max. FHP	min. FHP	max. FHP
FROM		ISI	max. FHP	min. FHP	max. FHP
TO		VO	max. FHP	min. FHP	max. FHP
Recovery		FSI	max. FHP	min. FHP	max. FHP
HOURS		RECOVERY			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	Ed Krawchuk	CHRISTENSEN	H. RUMMERS	Kind Depth Reaction
DERRICKMAN	LES WHITING	G. LONG	W. DANIELS	TELE 2478/15 2443 1 3/4 TD 2724 1°
HELPER	D. M. CURTIS	B. JACOBS	G. HALBERG	TELE 2530 1 1/2
HELPER	GLENN JACOBSON	J. GRAHAM	H. BIENZ	T 2600 1°
HELPER	JIM WARDLEK	D. TURNER	J. FLATO	TELE 2615 2 1/4
FIREMAN				TELE 2655 2 1/2
TOOL PUSHER				TD 1 1/2 + 2685 2

5-
SOSC WM SHAFFER OK VT 0-22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1971		12 ⁰⁰	1 ⁰⁰	
ON TOUR	TOUR 1	1 ⁰²	1 ¹⁵	READING UNDER GROUND
8:46 FT	100 ^m DOWICOR-G	1 ¹⁵	3 ⁰⁰	RIG SERV HYDRIL
0:24 FT	50 ^m CAUSTIC	3 ⁰⁰	3 ³⁰	DRPG 8 3/4 HOLE
	25KG KALSAMAL	3 ³⁰	6 ⁰⁰	SURVEY WIRELINE @ 2445
	3 SKI GEL			DRPG
1:60 FT				
1:98 FT				
2:80 FT	TOUR 2	8 ⁰⁰	11 ¹⁵	DRAG
9:27 FT		11 ¹⁵	11 ³⁰	WORK ON PUMPS
		11 ³⁰	12 ¹⁵	DRAG
		12 ¹⁵		SURVEY (WIRELINE) @ 2535 1 1/4" RIG
			1 ¹⁵	SERVICE CHECK PIP RAMS & HYDRIL
		1 ¹⁵	4 ⁰⁰	DRAG
5:00 FT				
5:00 FT				
0:33 FT				
TOUR	TOUR 3	4 ⁰⁰	4 ⁴⁷	DRPG
0 FEET	QAL 200 ^m	4 ⁴⁵	5 ¹²	SURVEY & RIG SERV
0 FEET	KALSAMAL 20 ^m	5 ¹²	7 ¹²	DRPG
0 FEET	CAUSTIC FLUM 72 ^m	7 ¹²	7 ⁴²	SURVEY 11 ⁰⁰ - 12 ⁰⁰ DRPG
0 FEET	WATER - ONE 363 ORF @ 673 = 76 BBLS	7 ⁴⁵	7 ⁰⁰	DRPG
		7 ⁰⁰	1 ³⁰	SURVEY
	DOWICOR G 30 ^m	7 ³⁰	11 ¹²	DRPG
		11 ¹²	11 ³⁰	SURVEY

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

DISRICTION

	SUCTION	DIS	UNDERFLOW DIS	DISCHARGE	DIS
7 P.M.	8.5"	35	7.4	36	8.5" 33
10 P.M.	8.2	35	7.4	36	8.5" 33

FUEL CONSUMPTION - 1107 GAL

CHRISTENSEN STABILIZERS

#453	HRS - 19 3/4	Cum hrs - 42 3/4 HR
#454	HRS - 19 3/4	Cum hrs - 43 HR

Reading	ID	2724	1"
1 3/4"			
1 1/2"			
1"			
2 1/4"			
2 1/2"			
2"			

[Signature]

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G. W.*

RIG NO *15*

FIELD *W. 10 CAT* WELL NAME *N66-42*

LSD *W137* SEC *20* TWP

Rip W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

FEB 3

1971

SOLIC W...
MUD CHEMICALS A...

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO <i>19</i>	<i>1856</i>	<i>18</i> FT	NO <i>19</i>	<i>1856</i>	<i>18</i> FT	NO <i>20</i>	<i>1867</i>	<i>35</i> FT
SINGLE	D.P.	NO <i>2</i>		FT	NO <i>2</i>		FT	NO		FT
X OVER SUB	O.D.			FT			FT			FT
OTHER	O.D.			FT			FT	<i>STAB</i>	<i>927</i>	FT
DRILL COLLARS	O.D.	<i>17</i>	<i>523</i>	<i>17</i> FT	<i>17</i>	<i>523</i>	<i>17</i> FT	<i>16</i>	<i>491</i>	<i>60</i> FT
DRILL COLLARS	O.D.	NO		FT	NO		FT	<i>TND</i>	<i>1198</i>	FT
REAMER	O.D.	KIND		FT	KIND		FT	<i>KIND</i>	<i>380</i>	FT
STABILIZER	O.D.	KIND	<i>465</i>	FT	KIND	<i>465</i>	FT	<i>KIND</i>		FT
JARS		KIND		FT	KIND		FT	<i>KIND</i>		FT
BUMPER SUB		KIND		FT	KIND		FT	<i>KIND</i>		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			<i>238400</i>	FT		<i>238400</i>	FT		<i>2484</i>	<i>30</i> FT
KELLY DOWN (BELOW R.B.)			<i>4030</i>	FT		<i>4030</i>	FT		<i>2000</i>	FT
DEPTH OF TOOLS			<i>242430</i>	FT		<i>242430</i>	FT		<i>242430</i>	FT
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR				FEET		<i>2424</i>	FEET		<i>2424</i>	FEET
DEPTH START OF TOUR				FEET			FEET		<i>2424</i>	FEET
FOOTAGE DRILLED				FEET			FEET			FEET

TOUR 1

TOUR 2
Kerran Al...
Plan...
Can...

TOUR 3
Downing...
...
...

DAY WORK	HOURS											
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	<i>12:00</i> <i>53</i>											<i>12:00</i>
ROTARY SPEED	<i>110</i>											<i>100</i>
WEIGHT ON BIT	<i>15-20</i>											<i>2M</i>
MUD WEIGHT	<i>8.7</i>											<i>8.2</i>
VISCOSITY	<i>29</i>											<i>35</i>
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

NO 1 STAB
NO 2 STAB
NO 3 RANGE

INSTALLED 3...
GRANT ROLLER

MIXED X.C. H...
TO X.C. POL...

BOILER - ELECT...

INSTALLED DR...
TO MUD T...

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FEET DRILLED IN 24 HRS	TOTAL HOURS	FROM	TO	REMARKS	CONDITION
<i>7</i>	<i>8 3/4</i>	<i>06879</i>	<i>SOUTH SUEH</i>	<i>3-4</i>	<i>18 3/4</i>	<i>2233</i>	<i>2424</i>	<i>191</i>	
<i>8</i>	<i>8 3/4</i>	<i>22437</i>	<i>Serenity S84</i>	<i>3:10</i>					

CORE No	No	DST No	PROD	TO	MUD LOSS	NEEP	DEPTH
TYPE		PREFLOW	min	PHP			
FROM		F.S.I	min	PHP			
TO		V.O	min	PHP			
Recovery		F.S.I	min	PHP			
HOURS		RECOVERY					

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	SA, PP
DRILLER	<i>E. KR...</i>	<i>K. CHRISTENSEN</i>	<i>A. CHAMBERS</i>	
DERRICKMAN	<i>LES WHITING</i>	<i>G. LANE</i>	<i>W. DENIBKO</i>	
HELPER	<i>D. M'CUAIG</i>	<i>B. JABS</i>	<i>B. HAGIR</i>	
HELPER	<i>GLENN JACOBSON</i>	<i>J. GRAHAM</i>	<i>A. BRINE</i>	
HELPER	<i>TIM WAINWICK</i>	<i>D. TURNER</i>	<i>J. FLATO</i>	
FIREMAN				
TOOL PUSHER	<i>James...</i>			

SUBC WIND SHARTEK CR-YT 0-22

MUD AND CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	2 ⁴⁵	DRILLING 3 3/4" HOLE
		2 ⁴⁵	3 ¹⁵	CIRC SURVEY
		3 ¹⁵	5 ⁰⁰	TRIP OUT
		5 ⁰⁰	8 ⁰⁰	CLEAN MUD TANKS INSTALL TELE DRIFT TOOL RIG SET BLIND TOOL
TOUR 2		8 ⁰⁰	8 ³⁰	RIG SERVICE & B.O.P ✓
KERRAN AK	600 [#]	8 ³⁰		FINISH CLEAN MUD TANKS, TELL OFF GATES WAITING ON WATER AND MIXING MUD. WELD FLANGE ON FLOWLINE FOR FLOWMETER. WORK ON AIR COMPRESSOR LINES. CHANGE ROLLERS ON NEAR BIT REAMER. HOOK. NC ✓ P
PLASTER PREP	150 [#]			WATER METER
GEN	1800 [#]			MIX MUD
TOUR 3		4 ⁰⁰	5 ³⁰	PICK UP N.BIT REAMER + TELEDRIFT SUB + STAB'S + RUN IN.
GEN	60 [#]	5 ³⁰		PICK UP Kelly + THROW OUT HOSE.
Downing G	140 [#]	8 ⁰⁰	9 ⁰⁰	FILL PIPE & DISPLACE MUD IN HOSE TO XC POLYMER MUD.
		9 ⁰⁰	10 ⁴⁵	RIG UNDER GAUGE HOSE w/ 2 m.
		10 ⁴⁵	12 ⁰⁰	

CEMENTING TESTING, FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

NO 1 STAB	4.65	NO. CDP #	454	TOTAL HRS	- 23 1/4
NO 2 STAB	4.61	NO CDP #	453	TOTAL HRS	- 23
NO 3 REAMER GRANT (VIEWED)		NEAR BIT W/ FLAT FACED ROLLERS			- 0 HRS

INSTALLED 3" TELEDRIFT AND PLACED SENSING SUB IN STRAIN BETWEEN GRANT ROLLER REAMER AND CHRISTENSEN BLADE STABILIZER.

MIXED XC POLYMER MUD SYSTEM AND DISPLACED COMPLETE SYSTEM TO XC POLYMER MUD.

BOILER - ELECTRICAL SYSTEM ON 1 BOILER GIVING PROBLEMS -

INSTALLED DRESSER MARGOCOR FLOW SHOW DEVICE IN FLOW LINE TO MUD TANKS. - CHECKED OUT - OPERATIONAL

M. B. ...
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD W110CAT WELL NAME N66-42 (SD W137) SEC 20 TWP W RIG NO 15
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT FEB 2 1971

SORC
MUD
MATERIALS

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	DP	18015	172929 FT	NO 18	176089	NO 19	185618
SINGLE	DP	NO 1	172929	NO 2		NO 2	
X OVER SUB	OD						
OTHER	OD						
DRILL COLLARS	OD	17 7"	52317		52317		52317
DRILL COLLARS	OD	NO		NO		NO	
REAMER	OD	KIND		KIND		KIND	
STABILIZER	OD	7	465		465		465
JARS	OD	KIND		KIND		KIND	
BUMPER SUB.	OD	KIND		KIND		KIND	
B/T OR CORE BARREL	OD						
TOTAL DP & TOOLS			225711		238871		239400
KELLY DOWN (BELOW R.B.)			1089		2730		1200
DEPTH OF TOOLS			226800		231505		239600

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2268 FEET	2315 FEET	2396 FEET
DEPTH START OF TOUR	2233 FEET	2268 FEET	2315 FEET
FOOTAGE DRILLED	35 FEET	47 FEET	81 FEET

DAY WORK	HOURS					HOURS					HOURS				
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM			
PUMP			59	59	59	59	59	59	59	59	59	59			
ROTARY SPEED			100	100	100	100	100	110	110	110	110	110			
WEIGHT ON BIT			8	8	8	8	10	12	8	8	15	15			
MUD WEIGHT			8.5	8.5	8.5	8.5	8.6	9.0	9.0	9.0	9.0	9.0			
VISCOSITY			32	33	30	30	30	30	29	29	29	29			
W L F C															

1 STEEL ST
AFTERNOONS

p.H	MUD LEVEL IN TANKS
	Ft Ins

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN INCHES	TOTAL HOURS	FROM	TO	REMARKS
7	8 3/4	DL879	SMITH SJH	3-9	3 1/4	2233	2268	35 10
7	8 3/4	DL879	SMITH SJH	3-9	16	2233	2396	163 IN

CORE No	No	DST No	FROM	TO	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	A SKINNER	Ed KRAWCHUK	K CHRISTENSEN
DERRICKMAN	H CHASKI	LES WHITING	G LONG
HELPER	P. UOGEL	D.M. CUAIG	B TABS
HELPER	V. UOGEL	GLENN JACOBSON	J. GRAHAM
HELPER	W WAGSTAIN		D TURNER
FIREMAN			
TOOL PUSHER	D. [Signature]		

SORC W M S Mattered CK-YT U-22

1971		MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	Amount	From	To			
TOUR 1		12 ⁰⁰	1 ²⁰	Hoist		
018 FT		1 ²⁰	2 ⁰⁰	Close down Blind Rammer - Seal Rig		
FT		2 ⁰⁰	3 ⁰⁰	Run in to 200		
FT		3 ⁰⁰	4 ⁴⁵	Close to BT 20906 2233		
FT		4 ⁴⁵	8 ⁰⁰	Drilling		
TOUR 2		9 ⁰⁰	9 ¹⁵	DRILLING 8 3/4 Hole		
017 FT		9 ¹⁵	9 ⁴⁵	WORK ON PUMPS		
FT		9 ⁴⁵	10 ⁰⁰	RIG SECU PIPE PAM'S		
065 FT		10 ⁰⁰	12 ³⁰	DRILLING		
FT		12 ³⁰	12 ⁴⁵	WORK ON MUD LINE		
FT		12 ⁴⁵	1 ³⁰	CIRL TO RUN SURVEY @ SURVEY		
FT		1 ³⁰	4 ⁰⁰	DRILLING		
100 FT		4 ⁰⁰	4 ³⁰	DRAG		
TOUR 3		4 ³⁰	5 ¹⁵	TIGHTEN UNION ON KELLY WORK ON MUD		
000 FT		5 ¹⁵	8 ⁰⁰	PUMPS & MUD MANIFOLD		
000 FT		8 ⁰⁰	8 ¹⁵	DRAG		
000 FT		8 ¹⁵	9 ⁰⁰	TIGHTEN UNION ON MUD LINE		
000 FT		9 ⁰⁰	9 ³⁰	DRAG		
000 FT		9 ³⁰	12 ⁰⁰	WORK PIPE, SURVEY, RIG SERVICE		
000 FT				DRAG		

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

1 XTRN stabilizer 60' up from bit.

AFTERNOONS - DUMPED & CLEANED SHAKER TANK AND FIRST SETTLING TANK

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP**

WELL NO **15**

FIELD **W. Idant** WELL NAME **N 66° 41'** **W 137°** **SEC 20'** **TAP**

S 03 C

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

Feb 1 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 14 185116 2 FT	NO 16 1538 42 FT	NO 17 1666 22 FT
SINGLE D.P.	NO 14 2756	NO 1	NO 2 1666 22 FT
X-OVER SUB O.D.	13.4.98.8 FT		
OTHER O.D.			
DRILL COLLARS 17 7" O.D.	523 17 FT	523 17 FT	523 17 FT
DRILL COLLARS O.D.			
REAMER O.D.			
STABILIZER O.D.	465 FT	465 FT	465 FT
JARS			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	187 200 0 FT	2067 24 FT	2194 04 FT
KELLY DOWN BELOW TR	32 30 FT	28 00 FT	38 96 FT
DEPTH OF TOOLS	191 06 0 FT	2093 24 FT	2233 00 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	191 0 FEET	2095 FEET	2233 FEET
DEPTH START OF TOUR	1853 FEET	1910 FEET	2095 FEET
FOOTAGE DRILLED	57 FEET	185 FEET	138 FEET

TOUR **Gel**

TOUR **GEL**

DAY WORK	67 HOURS
PUMP	58 58 1200 1200
ROTARY SPEED	110 110
WEIGHT ON BIT	8-10 8-10
MUD WEIGHT	8.4 8.5
VISCOSITY	31 34
W. F.C.	

Check Hydro.
Check Me
CHECK

ATTENTIONS -

Ch started 20

Trip at 2

NO	SIZE	SERIAL	DRILLER	DATE	TIME	TOUR
6	8 3/4	29477	H.W. XIG J	3-10	11:14	1580 1910 330
6	8 3/4	29477	H.W. XIG J	3-10	3:44	1580 2233 653

DRILLER	DRILLER	DRILLER	DRILLER
A. SKINNER	EL. KRUMHOLZ	K. CHRISTENSEN	
M. CHEWSKI	G. LONG	Line	1917. 7/10
V. VOGEL	D. CLARKE	B. JABS	2043. 1/2
V. VOGEL	Glenn Johnson	J. GRAHAM	2170. 1
W. WAGSTAFF	D. TURNER		

S 013C WM Shaker CK YT 0-22

1971		CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL
TOUR	FEET	Amount				WORK DONE
6	22	Gel 2300*	12 ⁰⁰	12 ¹⁵		Sen Rig V.R. OP Take Rotating Burnings MIX mud F.L.L. HOLE Run 1st to 27 ft time + Break Circ 20 Check to 87. From 1251 to 1853 C.I.C. Drilling 2
3	17		12 ¹⁵	1 ⁰⁰		
			2 ⁰⁰	4 ⁰⁰		
			4 ⁰⁰	5 ⁰⁰		
			5 ⁰⁰	6 ⁰⁰		
			6 ⁰⁰	8 ⁰⁰		
4	65		8 ⁰⁰	8 ³⁰		DRLL 8 3/4 HOLE
			8 ³⁰	8 ⁴⁵		RIG SER MOTOR SHUT OFF & REPE (TMM)
			8 ⁴⁵	9 ⁰⁰		SURVEY 1917 0
			9 ⁰⁰	2 ⁰⁰		DRLL
			2 ⁰⁰	2 ³⁰		SURVEY @ 2042
			2 ³⁰	4 ⁰⁰		DRLL
3	00	GEL 1300*	4 ⁰⁰	6 ¹⁵		DRLL
			6 ¹⁵	6 ¹⁵		SURVEY @ 2120 1°, RIG SERVICE
			6 ¹⁵	6 ¹⁵		B.P. V. BRAKE ✓
			6 ¹⁵	10 ⁰⁰		DRLL
			10 ⁰⁰	12 ⁰⁰		DROP SURVEY & HOIST, TIGHT PUMP OUT 4 SINGLES.

CEMENTING, TESTING, RECORDING, AND OTHER DETAILS INCLUDING ENGINEERING DRAWINGS

Check Hydril Control on rig floor - O.K. ~~1/2~~
 Check Meter Shaft etc - O.K. ~~1/2~~
 CHECK FINE SHIM - OK

AFTERNOONS - DUMPED & LEANED SHAKER TANK.

Christensen stabilizer # 453 in string - 20 1/2 rotating hours total to midnight

Trip at 2233 - Hole tight - had to pump out 1st 4 singles

7. 7/10
 3. 1/2
 0. 1

J.P.G.
 J. P. G. & Associates
 GEORGETOWN COMPANY ENGINEERS

TOUR REPORT

FIELD *Willocal*

WELL NAME *N66° 40'*

CONTRACTOR *G.P. Daig*

RIG NO *15*

SOSC Wm.

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

Jan 31 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR									
STANDS	D.P.	NO <i>14</i>	1	3	2	5	0	1	FT	NO <i>14</i>	1	3	2	5	0	1	FT
SINGLE	D.P.	NO							FT	NO							FT
X OVER SUB	O.D.								FT								FT
OTHER <i>Stool collar</i>	O.D.								1198	FT							1198
DRILL COLLARS <i>1/6 7"</i>	O.D.								49161	FT							49161
DRILL COLLARS	O.D.	NO								FT	NO						
REAMER <i>Aloma 8-1</i>	O.D.	KIND							380	FT	KIND						380
STABILIZER <i>3 chisel</i>	O.D.	KIND							926	FT	KIND <i>453(1)</i>						926
JARS		KIND								FT	KIND						
SUMPER SUB <i>3 string float</i>		KIND							220	FT	KIND						220
BIT OR CORE BARREL										FT							124667
TOTAL D.P. & TOOLS									184386	FT							184386
KELLY DOWN BELOW R.B.									320	FT							4030
DEPTH OF TOOLS									185306	FT							128697
TOUR			MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR								
DEPTH END OF TOUR			1	8	5	3			FEET	1	8	5	3				FEET
DEPTH START OF TOUR			1	7	7	0			FEET								1853
FOOTAGE DRILLED						8	3		FEET								0000

TOUR
Alstearate
Sulf latex
Gel

TOUR
GEL

GEL

DAY WORK	HOURS								
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM
PUMP									
ROTARY SPEED	RPM	<i>110</i>							
WEIGHT ON BIT	W lbs	<i>8</i>							
MUD WEIGHT	lb gal								
VISCOSITY	sec ut								
W.L.F.C.	cc 32nd								
pH									
MUD LEVEL IN TANKS	Ft. Ins								

Compression Air
Air Parts 300
Liquor Rate 15

Double run

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FT. WHEN USED	NO. OF TOURS	TOUR NO.	START	END
<i>6</i>	<i>8 3/4</i>	<i>29477</i>	<i>H.W. XIG 3</i>	<i>3-10</i>	<i>1</i>	<i>1230</i>	<i>1853</i>	<i>273 28</i>
<i>6</i>	<i>8 3/4</i>	<i>29477</i>	<i>H.W. XIG 2</i>	<i>3-10</i>				
<i>6</i>	<i>8 3/4</i>	<i>29477</i>	<i>H.W. XIG 1</i>	<i>3-10</i>			<i>1853</i>	<i>273</i>

Charged

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>A. SKINDER</i>	<i>E. Krenchuk</i>	<i>A. CHRISTENSEN</i>
DERRICKSMAN	<i>M. CHENSKI</i>	<i>K. Whitney</i>	<i>G. Lowe</i>
HELPER	<i>J. Vogel</i>	<i>D. Majumay</i>	<i>B. TABS</i>
HELPER	<i>V. Vogel</i>	<i>G. Jacobson</i>	<i>J. GRAHAM</i>
HELPER	<i>W. W. 95116</i>	<i>J. Wandler</i>	<i>D. TWANER</i>
FIREMAN			
TOOL PUSHER	<i>A. Popenkamp</i>		

LINE 1852 718

SOBC Wm. SHAFER CK47 022

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971		MATERIALS CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	TOUR	Amount				
4 16 FT	Alstearate	14 lbs	12 ⁰⁰	3 ⁰⁰	DO LINDY CIRC WORK PIPE SURF SEALING WORK WORK PIPE TO REGAIN CIRC CIRC WORK PIPE HOIST - HOLE LIGHT & 1236 P. KERRY WORK HOLE FACE	
5 01 FT	Sulfatex	50 gal	3 ¹⁵	3 ¹⁵		
	Gel	200 lbs	4 ⁰⁰	6 ⁰⁰		
1 98 FT			6 ¹⁰	8 ¹⁰		
1 61 FT						
3 80 FT	TOUR		8 ¹⁰		HOIST - lay down stabilizers & short collar RIG SERV - Blind Runs RIG OUT AIR DRILLING EQUIP ^{MT} RIG UP FOR MUD DRILLING AND MUD PICKUP FROM HOLE COLLAR	
9 26 FT	GEL	600 lbs	10 ⁰⁰	10 ⁰⁰		
			10 ⁰⁰	10 ¹⁵		
2 20 FT			10 ¹⁵			
3 86 FT				4 ⁰⁰		
D 20 FT						
3 06 FT	TOUR		4 ⁰⁰	4 ³⁰	RIG SERVICE, BOP J, BRAKE J CHANGE HEAD & LINERS W/ PUMP TO 56' WORK ON SHALE SHAKER RIN IN BIT 6 th WARM SWIVEL AND KERRY HOSE - THAW VALVES ON STD. PIPE. BLOW KERRY	
	GEL	1400 #	4 ²⁰	6 ³⁰		
3 FEET			6 ³⁰	8 ³⁰		
3 FEET			8 ³⁰			
0 FEET				12 ⁰⁰		

CEMENTING TESTING TYPING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Compressed Air 200 Psi
 Air Rate 300 CFM
 Liquid Rate 159 PPM increased to 200 PPM

XTRA STAB # 454 - 23 hrs to 8 AM
 " 453

Double rally at 1853. S.K.M 1885 > 2
 Beach 1887 > 4
 D.H. # 1.36 M. Cur's note

Changed over to mud at 1853.

[Signature]
 SIGNATURE COMMANDER/ENGINEER

TOUR REPORT

CONTRACTOR **G.P. Daig** FIG NO **15**

SOBC

FIELD **W.100A1** WELL NAME **N66° 43'**

W-127 SEC 20 TWP

JAN 30 1971

DRILLING DEEPENING COMPLETING

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR						
STANDS	D.P.	NO	13	123	123	FT	NO	13	123	123	FT	NO	13	123	123	FT
SINGLE	D.P.	NO				FT	NO				FT	NO				FT
COVER SUB	O.D.					FT					FT					FT
OTHER	O.D.					FT					FT					FT
DRILL COLLARS						FT					FT					FT
DRILL COLLARS	O.D.	NO				FT	NO				FT	NO				FT
REAMER	Wear	KIND				FT	KIND				FT	KIND				FT
STABILIZER	Wear	KIND				FT	KIND				FT	KIND				FT
JARS		KIND				FT	KIND				FT	KIND				FT
BUMPER SUB		KIND				FT	KIND				FT	KIND				FT
BIT OR CORE BARREL						FT					FT					FT
TOTAL D.P. & TOOLS						FT					FT					FT
KELLY DOWN BELOW R.B.						FT					FT					FT
DEPTH OF TOOLS						FT					FT					FT

20 gals Sulfur
26 lbs Airstar

Sulfatex

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	1770 FEET		1770 FEET
DEPTH START OF TOUR	1590 FEET		
FOOTAGE DRILLED	180 FEET		

DAY WORK	HOURS				HOURS			
	2:30 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 PM	2:00 PM	4:00 PM
PUMP								
ROTARY SPEED	100 100 100 100							
WEIGHT ON BIT	8000 8000 8000							
MUD WEIGHT								
VISCOSITY								
W.L.F.C.								
pH								
MUD LEVEL IN TANKS								

Found Corrosion
in pipe
Lubricate with
Soln/water
Caustic

NO.	SIZE	SERIAL	BIT KIND AND TYPE	DEPTH	TIME
6	8 3/4	20472	H.W. X 16 1/2	2-20 1580	6 3/4 1580 1770 1928

Check core
Picked up

CORE No.	DATE	TIME	PREPARED BY	RECOVERED BY

30' collar
30' collar
30' collar
30' collar
30' collar

SIGNATURE	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	A. SKINNER	E. KRANTZ	K. CHRISTENSEN
DERRICKMAN	M. CHANSKI	L. WHELAN	G. BOGGS
HELPER	P. VOGL	D. MANNING	B. JARS
HELPER	V. VOGL	G. JACOBSEN	J. BRAGAN
HELPER	W. WASTIK	J. WANDLER	D. TURNER
SCALE PUSHER	D. PEGANAMP		

SORC Wms. S.H.A. CT 17 0-22

CHEMICALS ADDED			From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
DATE	TIME	Amount			
1971	TOUR		12 ⁰⁰	3 ⁰⁰	DRILLING
	1 23	20 gals Sulfatex	3 ¹⁵	3 ¹⁵	CIAE
		26 lbs Alstaarate	4 ⁰⁰	4 ⁰⁰	SURVEY RIG SEA & BOP
			7 ⁰⁰	7 ⁰⁰	DRILLING
			7 ¹⁵	8 ⁰⁰	CIAE
					SURVEY
	TOUR				
	3 80				SURVEY @ 17 ⁰⁰
	9 24	Sulfatex	8 ⁰⁰	8 ¹⁵	CIAE CHECK BOP
			8 ¹⁵	9 ¹²	CIAE
	2 20		9 ¹⁵		TRIP OUT BRIDGE @ 1283 COLLAR
					BRIDGE TRIP
	00 08		3 ⁰⁰	3 ⁰⁰	PICK UP CORE BBL @ 1283
	00 00			4 ⁰⁰	
	TOUR				
	00 08		4 ⁰⁰	5 ⁰⁰	FINISH SERVICE CORE BARRELS
			5 ⁰⁰		FIELD SEALED OFF, START MOTORS WORK
				6 ³⁰	OP. AIR LINES. CLOSE BLIND RAMS.
			6 ³⁰	7 ³⁰	PICK UP STABILIZATION
			7 ³⁰	8 ⁴⁵	ROW IN BIT. 6
			8 ⁴⁵		POT. ON ROTATING HEAD. WARM SWIVEL
				9 ¹⁵	HELLY HOSE RIG SER.
			9 ¹⁵	12 ⁰⁰	REAMING TO BIT, WORKING PIPE FOR RETURNS.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Flow I Compressor for 200 PSI

Use date 300 PSI

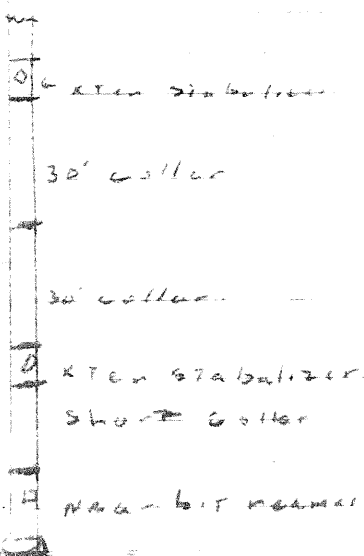
Liquid Rate 15 gpm

Soln/water 2 us gal/10 bbl

Chaussain Stabilizer 7 434 - 20 rotating hours to 8⁰⁰ am

Check core bbls that had been dropped off H. Bay - O.K.

Picked up near bit reamer & 2 KTen stabilizers & short collar



[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G. P. D19* WELL NO. *15*

FIELD *WILCOAT* WELL NAME *N66°43'*

SEC *137* REC *2* TWP *14* R. *1* W. *1*

SOC W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING *JAN 29 1971*

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	DP NO <i>10</i>	25789 FT	NO <i>10</i>	<i>101068</i> FT	NO	<i>104226</i> FT	
SINGLE	DP NO	<i>94744</i> FT	NO <i>2</i>	XXXXXX FT	NO	<i>3177</i> FT	
X OVER SUB	CD						
OTHER	OD						
DRILL COLLARS	<i>16 - 7' OD</i>	<i>49238</i> FT		<i>49238</i> FT		<i>49238</i> FT	
DRILL COLLARS	NO		NO		NO		
REAMER	OD		KIND		KIND		
STABILIZER	<i>Chast Stone Ser 454</i>	<i>461</i> FT	KIND	<i>461</i> FT	KIND	<i>461</i> FT	
JARS			KIND		KIND		
BUMPER SUB	<i>String Floor</i>	<i>220</i> FT	KIND	<i>220</i> FT	KIND	<i>220</i> FT	
BIT OR CORE BARREL							
TOTAL DP & TOOLS		<i>144663</i> FT		<i>150987</i> FT		<i>157222</i> FT	
KELLY DOWN BELOW RB		<i>2900</i> FT		<i>4030</i> FT		<i>180</i> FT	
DEPTH OF TOOLS		<i>145753</i> FT		<i>155017</i> FT		<i>159022</i> FT	
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		<i>1457</i> FEET		<i>1550</i> FEET		<i>1590</i> FEET	
DEPTH START OF TOUR		<i>1373</i> FEET		<i>1457</i> FEET		<i>1550</i> FEET	
FOOTAGE DRILLED		<i>84</i> FEET		<i>93</i> FEET		<i>40</i> FEET	

Sulfate Sal 3
Alsterate 2

Sulfate Sal 40
Alsterate 16

SULFATEX 3

DAY WORK	HOURS							
	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM
PUMP	SPM							
ROTARY SPEED	RPM <i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>
WEIGHT ON BIT	MT lbs <i>5</i>	<i>8</i>	<i>8</i>	<i>10</i>	<i>10</i>	<i>10</i>	<i>10-12</i>	<i>10</i>
MUD WEIGHT	lb gal							
VISCOSITY	sec ct							
WLF C	cc 32nd							
MUD LEVEL IN TANKS	FT INCH							

Conductor Hill Cat. 3
liquid Rate
Sulfate Sal

NO.	SIZE	SERIAL	BIT WHEEL AND TYPE	DATE	TIME	TIME	TIME	TIME
<i>5</i>	<i>8 3/4</i>	<i>28838</i>	<i>H.W. XIG 2</i>	<i>3-18</i>	<i>12 1/2</i>	<i>1805</i>	<i>1457</i>	<i>252245</i>
<i>5</i>	<i>8 3/4</i>	<i>25822</i>	<i>H.W. XIG 5</i>	<i>2-20</i>	<i>1 8 1/2</i>	<i>1205</i>	<i>1580</i>	<i>305 22</i>
<i>6</i>	<i>8 3/4</i>	<i>29477</i>	<i>H.W. XIG 5</i>	<i>1-16</i>	<i>1/2</i>	<i>1580</i>	<i>1590</i>	<i>10</i>

Drilling break
Drilling feed
1000 45 13 2
Drilling unit 2

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>A. SKINNER</i>		<i>K. HASTENSEN</i>
DERRICKMAN	<i>M. CHANKS</i>		<i>B. LONG</i> <i>LINE 1340 114</i>
HELPER	<i>P. VOGET</i>		<i>B. TARD</i> <i>LINE 1450 10</i>
HELPER	<i>V. VOGET</i>		<i>J. GRAHAM</i> <i>11 1518 10</i>
HELPER	<i>W. WAGS-TATE</i>		<i>J. GRACIAK</i> <i>11 1580 1 1/8</i>

Drilling Unit

S.O.B.C. WIND SHEATHING CR. 1-0-22

CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL	
DATE	AMOUNT	From	To	WORK DONE
1971		12 ⁰⁰	2 ⁰⁰	DRAG W/ 5000
ON TOUR		2 ⁰⁰	2 ¹⁵	C.I.C.
226	Sulfate Sal 35 gal	2 ¹⁵	2 ⁴⁵	SURVEY SINKING & BUILDS
177	Al Stearate 24 lbs	6 ⁰⁰	6 ¹⁵	DRILLING W/ 8" B.T.
		6 ¹⁵	6 ³⁰	WORK ON CONTAINING HEAD
		6 ³⁰	7 ⁰⁰	DRILLING
238		7 ⁰⁰	7 ⁴⁵	SURVEY
		7 ⁴⁵	8 ⁰⁰	DRILLING
		8 ⁰⁰	9 ³⁰	DRILLING 8 3/4" HOLE
461	Sulfate Sal 40 gal	9 ³⁰	9 ⁴⁵	RIG SET FIVE PINS
	Al Stearate 16 lbs	9 ⁴⁵	10 ⁴⁵	DRILLING
220		10 ⁴⁵	2 ⁰⁰	WORK ON HIGHLINE @ COMPRESSOR
		2 ⁰⁰	2 ¹⁵	DRILLING
222		2 ¹⁵	3 ⁰⁰	SURVEY @ 1518
803		3 ⁰⁰	4 ⁰⁰	DRILLING
022		4 ⁰⁰	5 ¹⁵	DRAG W/ 10 M
OUR	Sulfate Sal 35 gal	5 ¹⁵	6 ⁰⁰	SURVEY @ 1580 1"
0		6 ⁰⁰	6 ¹⁵	PULL ROTATING HEAD
0		6 ¹⁵	7 ³⁰	HOIST BIT 5 @ 1580
0		7 ³⁰	8 ⁰⁰	RIG SERVICE & LOSE BLIND RANS.
		8 ⁰⁰	9 ¹⁵	RUN IN BIT 6"
		9 ¹⁵	11 ³⁰	PULL ROTATING HEAD WASH KELLS HOSE CLEAN 50' TO BTM.
		11 ³⁰	12 ⁰⁰	DRAG W/ 8 M

2. 1/4
3. 1/4
4. 1/4
5. 1/4
6. 1/4

VENTING CENTRAL FURNACE (SEE PLAN) FOR DETAILS INCLUDING ENGINEERING MEMORANDUMS

- 100 ~~hour~~ Compressor Air 200 Psi
- 8 Air Rate 300 CFM
- Flow Rate 15 gpm
- Sulfate Sal - 2 gal / 10 bbl water

Drilling break @ 1450 - compressor pressure dropped - picked up after drilling 5 feet - no evidence of hydrocarbons in returns.

Trip at 1580 to check bit - just starting to go under gauge. Teeth fairly well dulled off - bearings good

114
1°
1°
1 1/8°

[Signature]
SIGNATURE COMPANY LIMITED

TOUR REPORT

CONTRACTOR **GP** RIG NO **15**
 FIELD **Wildcat** WELL NAME **N 66° 42'** ESD **W 137°** SEC **20'** TWP

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING END OF 24 HOURS ENDING 12 MIDNIGHT **Jan 28 1971**

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
TANDS 7 DP NO			FT	NO 8		FT	NO 9	89933	FT
ANGLE 1 DP HO	69457		FT	NO 1	79064	FT			FT
COVER SUB OD			FT			FT			FT
OTHER OD			FT			FT			FT
DRILL COLLARS 1 7" OD	1198		FT		1198	FT			FT
DRILL COLLARS 16 6 7/8" OD	49105		FT	NO	49105	FT	NO	49238	FT
BEAMER Near B.T. OD	380		FT	KIND	380	FT	KIND		FT
STABILIZER XTEN OD	461		FT	KIND	461	FT	KIND	SAR 454 461	FT
ABS Sleeve STAB	568		FT	KIND	568	FT	KIND		FT
RAMPER SUB ST. INT	220		FT	KIND	220	FT	KIND		220
BIT OR CORE BARREL			FT			FT			FT
TOTAL DP & TOOLS	121389		FT		130997	FT		135632	FT
VELLY DOWN BELOW R.B.	3430		FT		4030	FT		1700	FT
DEPTH OF TOOLS	124819		FT		135027	FT		137332	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR	1248	FEET		1248	FEET		1350	FEET	
DEPTH START OF TOUR	1205	FEET		1350	FEET		1373	FEET	
FOOTAGE DRILLED	43	FEET		102	FEET		23	FEET	

TOUR
 Sulfate sul 3
 Sulfate sul 1
 Al Silicate 3
 Al Silicate 10
 Sulfate 4

DAY WORK	HOURS											
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 PM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP												
ROTARY SPEED RPM												
WEIGHT ON BIT M lbs												
MUD WEIGHT lb gal												
VISCOSITY sec qt												
W. F.C. cc 32nd												
MUD LEVEL IN TANKS FT. lbs												

Trap @ 10
 ATent stab
 Picked up

NO.	SIZE	SERIAL	BIT KIND AND TYPE	EST. LIFE (HRS)	ACT. LIFE (HRS)	START DEPTH (FT)	STOP DEPTH (FT)	TOUR
5	8 3/4	28838	H.W. XIG	1-18	3 1/4	1205	1248	43
5	8 3/4	28838	H.W. XIG	1-18	4 1/2	1205	1350	145
5	8 3/4	28838	H.W. XIG	2-18	6 1/4	1350	1373	168

2-1-1
 RUNNING

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	A Skinner	K CHRISTENSEN	
TRICKMAN	M Chen	C LONG	line 1280 1 3/4
FLPER	P Vogel	B TABS	line 1320 2'
FLPER	V Vogel	J GRAHAM	
FLPER	W WagsTadt	J MACHWAK	
REMAN			
COL. PUSHER			

S O B C W M Shetter CK VT 0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971	ML	AMMUNITIONS ADDED	From	To	WORK DONE
TOUR	TOUR	Amount	12 ⁰⁰	12 ¹⁵	See Riv ✓ 130P
9 33	FT	Sulfate Sul 30 gal	12 ¹⁵	1 ³⁰	Put on Kelly, rotating head and head up
	FT		1 ³⁰	2 ¹⁵	Blow water from hole with air & displace with soap
	FT		2 ¹⁵	8 ⁰⁰	Drilling
	FT				Compressor Pressure 200 psi
	FT				Air rate 300 CFM
	FT				Liquid rate 15 gpm w/d
	FT				2 gal sulf/10 gal water
4 61	FT	Sulfate Sul 50 g	8 ⁰⁰	8 ³⁰	Drilling
	FT	Al Stearate 50 lbs	8 ³⁰	8 ⁴⁵	Riv See & Riv
	FT		8 ⁴⁵	9 ⁴⁵	SURVEY 1280
	FT		9 ⁴⁵	11 ³⁰	DRILLING
	FT		11 ³⁰		WORK ON AIR LINE TO CHANGE FROM
	FT			12 ³⁵	FROM BULLY LINE
	FT		12 ³⁰	2 ²⁵	DRILLING
3 32	TOUR	Al STEARATE 15 #	2 ³⁰	3 ¹⁵	SURVEY @ 1350
	TOUR	Sulfate Sul 40 gal	3 ¹⁵	4 ¹⁵	TOUR CUT
	TOUR		4 ¹⁵	5 ¹⁵	HOIST BIT 5 @ 1350
	TOUR		5 ¹⁵	6 ⁴⁵	RIG SERVICE, CLOSE BLIND RAMS PICK UP BTM HOLE COLLAR & CHRISTENSEN STAB @ 60'
	TOUR				RUN IN, PUT ON ROTATING HEAD WARM KELL
	TOUR				HOSE CLEAN 5' TO BTM.

CEMENTING TESTING FISHING DETAIL TOP DETAILS INCLUDING ENGINEERING SUMMARIES

Top @ 1350 to change stabilization

ATEN STAB CDP 453 - 5 rotating hours - laid down
Picked up CDP 454

AFTERNOON TOUR

4 ⁰⁰	5 ¹⁵	Hoist Bit 5 @ 1350
5 ¹⁵	5 ⁴⁵	RIG SERVICE & CLOSE BLIND RAMS
5 ⁴⁵		PICK UP BTM HOLE COLLAR & CHRISTENSEN
	6 ⁴⁵	STAB @ 60'
6 ⁴⁵	7 ⁴⁵	RUN IN
7 ⁴⁵		PUT ON ROTATING HEAD, WARM UP KELL
	7 ¹⁵	HOSE PUT ON SAARE
7 ¹⁵	7 ⁴⁵	PUMP AIR SOAP & CLEAN 5' TO BTM
7 ⁴⁵	10 ¹⁵	DRAW w/ 5 m.
10 ¹⁵	10 ⁴⁵	REGULATE AIR SOAP MIXTURE.
10 ⁴⁵	12 ⁰⁰	DRAW w/ 5 m.

L. J. Humble
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **Unocal** WELL NAME **N66° 40'** LOCATION **SDW137° SEC 20 TWP** DATE **Jan 29** 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 743735299 FT	NO	NO 1 7385 FT
SINGLE D.P.	NO	NO	NO
OVER SUB O.D.		3082 FT	3089 FT
OTHER O.D.	300 FT	568 FT	568 FT
DRILL COLLARS 1 7" O.D.	370 FT	1198 FT	1198 FT
DRILL COLLARS 16 1 7/8" O.D.	NO 4910.5 FT	NO 4905.6 FT	NO 4910.5 FT
REAMER Neer B10 KIND		380 FT	380 FT
STABILIZER XTM O.D.		461 FT	461 FT
JARS			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	123383 FT		68186 FT
KELLY DOWN (BELOW R.B.)	2900 FT		4180 FT
DEPTH OF TOOLS	120583 FT		68566 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			683 FT
DEPTH START OF TOUR			
FOOTAGE DRILLED			

DAY WORK	HOURS	HOURS	HOURS
PUMP			
ROTARY SPEED			
WEIGHT ON BIT			
MUD WEIGHT			
VISCOSITY			
W.L.F.C.			
pH			
MUD LEVEL IN TANKS			

NO.	SIZE	SERIAL	BIT KIND AND TYPE	REMARKS
5	8 3/4	28838	HW XXX X16	1-15 1-20 Run in.

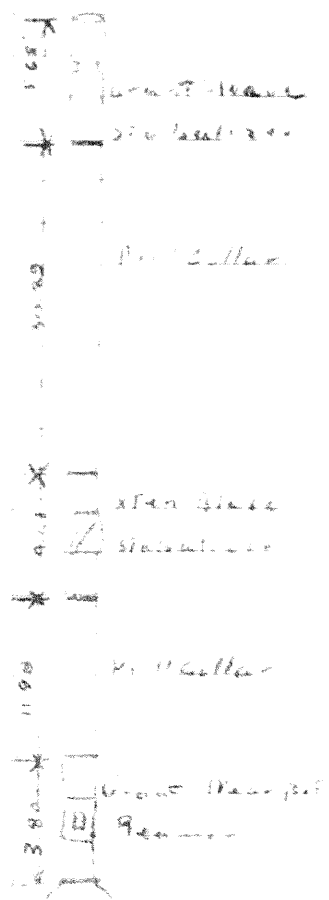
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	SKINNER	C. FRASER	B. HUSTENSEN
DERRICKMAN	M. CHAMBERLAIN	G. FRASER	J. HOWE
HELPER	P. UGEL	D. RANGK	B. JIASS
HELPER	V. UGEL	G. JACOBSON	J. JOHNSON
HELPER	W. WAGSTAFF	D. WANDLER	J. DANNAK
FIREMAN			
TOOL PUSHER	W. WAGSTAFF		

5080 W
 1971
 TOUR
 683
 4180
 68566
 Run in.
 8 3/4
 28838
 HW X16
 1-15
 1-20
 Run in.
 8 3/4
 28838
 HW X16
 1-15
 1-20
 Run in.

SOBC Wm SHARFFED SKY. #0-22

1971		CHEMICALS ADDED		OTHER HOURLY OPERATING DETAIL WORK DONE	
ML	Amount	From	To		
DN TOUR	TOUR	12 ⁰⁰		Tighten Down Rotating Head, islow	
385	FT			Flange, Water Removal, Barga Gates	
	FT			Hook up Section in Blue Line, Hook up	
089	FT	5 ⁰⁰	5 ⁰⁰	Manages Center in Blue Line	
568	FT			Light Start, quit Fuel line Call out P	
198	FT			Hook up Fuel line, Start & stop Plant	
105	FT			& Close center	
380	FT	8 ⁰⁰		Weld Flange on BLOOEY	
461	FT			Put Sample Catcher on BLOOEY LINE	
	FT			Rig up CHEMICAL SPRAY @ END OF	
	FT			BLOOEY LINE	
	FT		4 ⁰⁰	INSULATE FUEL LINES.	
186	FT				
180	FT				
366	FT	4 ⁰⁰		WORKING BLOCKS, Pick up ⁵⁴⁰⁰⁸ Block Cobble	
TOUR				Hole Reamers & STRAINER Making of	
3	FT			SAND RUN IN DRILL COLLARS AND	
	FT			1 STD PIPE.	
	FT	10 ⁰⁰	10 ⁰⁰	UNTHAW KEELS OUT OF PILE HOPE	
	FT		12 ⁰⁰	RUN STEAM INTO KEEL HOSE.	

PLANNING, DESIGN, CONSTRUCTION, OPERATING DETAIL, INCLUDING ENGINEERING SUMMARIES



Lo G Greenfield
SIGNATURE COMPANY ENGINEER

TOUR REPORT

TRACTOR

G.P. D96G

REV. NO.

15

FIELD *Widocat*

WELL NAME *N 86° 42'*

SUW *137°* SEC *20'* TWP

28C WIN

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

TOUR DATE *Jan 26*

1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO 6	570	40	FT	NO 701	735	99	FT	NO 735	99	FT	
SINGLE	D.P.	NO 2	63	65	FT				FT			FT	
X OVER SUB	7' O.D.		3	00	FT		3	00	FT		3	00	FT
OTHER	7' O.D.		3	76	FT		3	76	FT		3	76	FT
DRILL COLLARS	7' O.D.		491	05	FT		491	05	FT		491	05	FT
DRILL COLLARS	O.D.	NO			FT				FT				FT
REAMER	O.D.	KIND			FT				FT				FT
STABILIZER	O.D.	KIND			FT				FT				FT
GAHS		KIND			FT				FT				FT
BUMPER SUB		KIND			FT				FT				FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D.P. & TOOLS			36	00	FT	1238	83		FT	1233	83		FT
KELLY DOWN BELOW RR	up		39	00	FT	28	00		FT	28	00		FT
DEPTH OF TOOLS			1167	78	FT	1205	83		FT	1205	83		FT
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR					FEET				FEET				FEET
DEPTH START OF TOUR			1205		FEET				FEET	1205			FEET
FOOTAGE DRILLED					FEET				FEET				FEET

DAY WORK		MORNING		AFTERNOON	
		TO	FROM	TO	FROM
PUMP	SPM				
ROTARY SPEED	RPM				
WEIGHT ON BIT	MT				
MUD WEIGHT	LB/GAL				
VISCOSITY	CP				
W.L.F.C.	SEC/100				

MUD LEVEL IN TANKS		MORNING		AFTERNOON	
TANK	LEVEL	TO	FROM	TO	FROM

4A 12'4" W#86B HW OSC.3 3-18 3 1/2 Drill out.

CURE	NO.	DATE	TEST
TYPE			
FROM			
TO			
REMOVED			
HOURS			

SIGNATURE	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DIRECTOR	A CHAMBERS	A SKINNER	G. FRASER
DEPARTMENT	W DAMIRKO	M CHINIKO	G. FRASER
HELPER	G HABER	P VOYEL	J. KANDER
HELPER	A BUNZ	V VOYEL	G. JACOBSON
HELPER	J ELATO	Wm Waybright	J WANDLER
FIREMAN	R VALEQUETTE		
TOOL PUSHER	D PIPERDAMP		

208C WIM SHIRE FIRE CK 57 21

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971	NO. OF MINUTALS ADDED	From	To
TOUR	Amount		
599 FT		12 ⁰⁰	6 ²⁰
300 FT		6 ²⁰	6 ⁴⁵
376 FT		6 ⁴⁵	8 ⁰⁰
105 FT			
		8 ¹⁰	8 ¹⁵
		8 ¹⁵	9 ⁰⁰
		9 ⁰⁰	12 ⁰⁰
		12 ⁰⁰	3 ⁰⁰
		3 ⁰⁰	4 ⁰⁰
383 FT			
800 FT			
583 FT		11 ⁰⁰	4 ¹⁵
		4 ¹⁵	6 ⁰⁰
		6 ⁰⁰	6 ¹⁵
		6 ¹⁵	12 ⁰⁰

PULL OUT FLARE LINE & Blow w/Steam & Fill w/ Diesel.
 W/Pipe to loose blocks
 Pick up Kelly - Blow w/Steam to warm Hose & Swivel.
 Set Rig & out out of S Ground note
 Take off Retaining hose valve from Kelly
 Drill out
 Cure (check out hole from collar & Right to
 Blow Kelly, take out wire tails
 Big SERVICE
 HOTSET
 Close Blind Rams etc.
 Hook up air Drilling Equipment

Check more shut offs - O.K.
 Double Tally Diffⁿ 1.5' - No Core made

TOUR REPORT

CONTRACTOR

G N

RIG NO

15

5013

FIELD Eagle Plains WELL NAME 66°42'W LSD 137° SEC 20' TWP W

Rep W

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

May 9

1971

MUD and CHEMICALS AD

Kind

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
SINGLE	D.P.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
X-OVER SUB	O.D.		FT		FT		FT		FT		FT		FT
OTHER	O.D.		FT		FT		FT		FT		FT		FT
DRILL COLLARS	O.D.		FT		FT		FT		FT		FT		FT
DRILL COLLARS	O.D.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
REAMER	O.D.	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT
STABILIZER	O.D.	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT
JARS		KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT
BUMPER SUB			FT		FT		FT		FT		FT		FT
BIT OR CORE BARREL			FT		FT		FT		FT		FT		FT
TOTAL D.P. & TOOLS			FT		FT		FT		FT		FT		FT
KELLY DOWN (BELOW R.B.)			FT		FT		FT		FT		FT		FT
DEPTH OF TOOLS			FT		FT		FT		FT		FT		FT

TOUR 1

TOUR 2

TOUR 3

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR				FEET				FEET				FEET
DEPTH START OF TOUR				FEET				FEET				FEET
FOOTAGE DRILLED				FEET				FEET				FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
W.L.F.C.	/											
p.H.	/											
MUD LEVEL IN TANKS	/											

Play # 6

Casing to

Casing str

Name plat

3 sec cen

2 sec cen

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT							
TYPE			PREFLOW	mins	IHP	psi	I FP	psi	Time	AM	PM	AK
FROM			ISI	mins	FHP	psi	F FP	psi	Mud Wt	10 Min Ge		
TO			VO	mins	ISIP	psi	GTS	mins	Vis	W.L.F.C.		
Recovery			F.S.I	mins	F.S.I.P	psi	F.T.S	mins	A.V	p.H		
HOURS			RECOVERY						P.V	Solid		
									Y.P	CA ppm CL ppm		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	J Petersen	B Chambers				
DERRICKMAN	G Long	W Benke				
HELPER	A Benz	G Gowalko				
HELPER	J GARDNER	L Coolidge				
HELPER	C HOGAN	T Pendergast				
FIREMAN						
TOOL PUSHER						

TOUR REPORT

CONTRACTOR

G N

RIG NO

15

50130

FIELD Eagle Plains WELL NAME 66°42'W LSD 137° SEC 20' TWP W

Rep W

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

May 9

1971

MUD and CHEMICALS AD

Kind

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
SINGLE	D.P.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
X-OVER SUB	O.D.		FT		FT		FT		FT		FT		FT
OTHER	O.D.		FT		FT		FT		FT		FT		FT
DRILL COLLARS	O.D.		FT		FT		FT		FT		FT		FT
DRILL COLLARS	O.D.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
REAMER	O.D.	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT
STABILIZER	O.D.	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT
JARS		KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT
BUMPER SUB			FT		FT		FT		FT		FT		FT
BIT OR CORE BARREL			FT		FT		FT		FT		FT		FT
TOTAL D.P. & TOOLS			FT		FT		FT		FT		FT		FT
KELLY DOWN (BELOW R.B.)			FT		FT		FT		FT		FT		FT
DEPTH OF TOOLS			FT		FT		FT		FT		FT		FT

TOUR 1

TOUR 2

TOUR 3

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR				
DEPTH END OF TOUR				FEET				FEET					FEET
DEPTH START OF TOUR				FEET				FEET					FEET
FOOTAGE DRILLED				FEET				FEET					FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	S.P.M.	P.S.I.										
ROTARY SPEED	R.P.M.											
WEIGHT ON BIT	M lbs											
MUD WEIGHT	lb/gal											
VISCOSITY	sec/qt											
W.L.F.C.	c.c./32nd											
p.H.												
MUD LEVEL IN TANKS	Ft. Ins											

Play # 6

Casing to

Casing stru

Name plat

3 sec cas

2 sec cas

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION

CORE No	No	DST No	FROM		TO		MUD ENGINEER'S REPORT						
			PREFLOW	mins	IHP	psi	I FP	psi	Time	AM	PM	AK	
FROM			ISI	mins	FHP	psi	F FP	psi	Mud Wt			Int. Ge	10 Min. Ge
TO			VO	mins	ISIP	psi	GTS	mins	Vis			W.L.F.C.	
Recovery			F.S.I	mins	F.S.I.P	psi	F.T.S	mins	AV			p.H.	
HOURS			RECOVERY						P.V			Solid	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	J. Petersen	B. Chambers				
DERRICKMAN	G. Long	W. Benke				
HELPER	A. Benz	G. Gowalko				
HELPER	J. GARDNER	L. Coolidge				
HELPER	C. HOGAN	T. Pendergast				
FIREMAN						
TOOL PUSHER						

TOUR REPORT

FIELD *Cape Hains* WELL NAME *N-66' 43'* CONTRACTOR *G-1* RIG NO. *15*
 [] DRILLING [] DEEPENING [] COMPLETING
 [] REDRILLING [] ABANDONING [] REWORKING FOR 24 HOURS ENDING 2 MIDNIGHT *MAY 8 1971*

SOBC

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D P	NO			FT	NO			FT	NO	<i>6</i>	<i>56892</i>	FT
SINGLE	D P	NO			FT	NO			FT	NO			FT
X OVER SUB	O D				FT				FT				FT
OTHER	O D				FT				FT				FT
DRILL COLLARS	O D				FT	<i>15</i>		<i>45829</i>	FT	<i>0</i>			FT
DRILL COLLARS	O D	NO			FT	NO			FT	NO			FT
REAMER	O D	KIND			FT	KIND			FT	KIND			FT
STABILIZER	O D	KIND			FT	KIND			FT	KIND			FT
JARS		KIND			FT	KIND			FT	KIND			FT
BUMPER SUB		KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D P & TOOLS					FT				FT				FT
KELLY DOWN (BELOW R B)					FT				FT				FT
DEPTH OF TOOLS					FT				FT				FT

M.D. and CHEMICALS AD	Kind
	TOUR 1
	TOUR 2
	TOUR 3

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	FEET	FEET	FEET
DEPTH START OF TOUR	FEET	FEET	FEET
FOOTAGE DRILLED	FEET	FEET	FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
W.L.F.C.	/											
pH	/											
MUD LEVEL IN TANKS	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION

CORE No.	No.	DST No	FROM	TO	MUD ENGINEER'S REPORT						
					PREFLOW	mins	IHP	psi	Temp	API	AK
					FROM	mins	FHP	psi	Mud Wt	Int. Gel	10 Min. Gel
					TO	mins	FSIP	psi	Visc	W.L.F.C.	
					Recovery	mins	F.S.I.P	psi	F.T.S	mins	pH
					HOURS	RECOVERY			P.V	Sound	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>J. Petersen</i>	<i>A. Chumbrics</i>	<i>H. Skramen</i>	Kind	Depth	Reading
DERRICKMAN	<i>W. Long</i>	<i>W. Duvinko</i>	<i>W. Wagstaff</i>	<i>10.370</i>	<i>1'</i>	
HELPER	<i>A. Benz</i>	<i>G. Gowalko</i>	<i>W. L. Yeros</i>			
HELPER	<i>J. Blaham</i>	<i>L. Ruckhett</i>	<i>J. ...</i>			
HELPER	<i>C. Hoggan</i>	<i>T. ...</i>	<i>W. ...</i>			
FIREMAN						
COOL PUSHER						

DST #6
Testing Co.
PBTD 110
Type Test
Size of ch
Pressure Re
Pre flow -
FSI at 10
V.O - good
in 180
Recover
Drill pipe
Mud weight
CI content
IHP ~~100~~
Complete
Chart
Pack
PBTD

Play #6: 58
6bb mud

SOBC. W. M. SHAFFER CK 4T 0-22

MLD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	Kind	Amount		
TOUR	TOUR 1	12 ⁰⁰	12 ³⁰	TESTING
9 2 FT		12 ³⁰	3 ⁰⁰	HOIST TESTER, SERVICE TOOL
FT		3 ⁰⁰	4 ⁰⁰	MAKE UP TESTER, TRIP IN
FT		4 ⁰⁰	4 ³⁰	MAKE UP HEAD, SEAT PACKED
FT		4 ³⁰	8 ⁰⁰	TESTING
FT				
FT				
FT				
FT	TOUR 2	8 ⁰⁰	12 ⁰⁰	TESTING
FT		12 ⁰⁰	2 ⁰⁰	HOIST TEST & BRK DOWN TOOLS
FT		2 ⁰⁰	4 ⁰⁰	WAIT ON ORDERS
FT				
FT				
FT				
FT				
FT	TOUR 3	4 ⁰⁰	4 ⁰⁰	WAIT ON ORDERS
UR		4 ⁰⁰	6 ⁰⁰	MOVE COLLARS TO SIDE OF DECK & RUN IN O-END
FEET		6 ⁰⁰	6 ⁰⁰	SEAL RIG S.O.P.
FEET		6 ⁰⁰	7 ⁰⁰	LOAD OUT TESTING TOOLS + SHTLUM BEA-
FEET		7 ⁰⁰	8 ⁰⁰	GEN. EQUIPMENT
HOURS		8 ⁰⁰	8 ⁰⁰	HOIST DOWN 18 SINGLE
M 12 00 P.M.		8 ⁰⁰	12 ⁰⁰	RUN PLUG # 6
				PULL OUT OF HOLE + W.O.E.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DST #6 : Perforated Interval 504 - 512. in 13^{3/8}" casing
 Testing Company Eastland Testers, Operator Lurson
 PBTD 1109 : 610' Tail pipe. Length of perforated joint 25 ft
 Type Test : Single Anchor in 13^{3/8}" casing. Size of packer 11^{1/4}"
 Size of choke 7/8" - Ran safety joint - no pump out sub - riggers
 Pressure Recorder : No. 211 #2815 at 512 and one RPB #5711 at 522
 V.O - good air blow to very weak air blow in 6 min - done
 in 180 min

Recovered 281 qt of drilling mud
 Drill pipe 4^{1/2}" x 16.6 Drill collars 6^{7/8}" x 2^{1/8}"
 Mud weight before test 8.9 Mud weight recovered on test 8.8
 CI content mud before test 320 ppm. CI content mud recovered 320 ppm
 IHP ~~227~~ FHP 228 ISIP - NOT TAKEN IFF 28, FFP 161
 Complete in 180 min.
 Charts O.K. Test Satisfactory
 Packer rubber set at 499
 PBTD 1109

Plug #6 : 580-470-100 sex cement 3% CaCl₂ - displaced with
 66bl mud Plug in place 8³⁰ pm.

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *GP*

RIG NO *15*

FIELD *Coyle Plains* WELL NAME *N 66' 42'* LSD *W 137* SEC *20'* TWP

R₄ W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

MAY 7 19*71*

SCBL
M.D. and CHEMICALS A
Kind

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS .. D.P.	NO.			FT.	NO.			FT.	NO.			FT.
SINGLE .. D.P.	NO.			FT.	NO.			FT.	NO.			FT.
X OVER SUB .. O.D.				FT.				FT.				FT.
OTHER .. O.D.				FT.				FT.				FT.
DRILL COLLARS .. O.D.				FT.	<i>15</i>		<i>45829</i>	FT.				FT.
DRILL COLLARS .. O.D.	NO.			FT.	NO.			FT.	NO.			FT.
REAMER .. O.D.	KIND			FT.	KIND			FT.	KIND			FT.
STABILIZER .. O.D.	KIND			FT.	KIND			FT.	KIND			FT.
JARS .. O.D.	KIND			FT.	KIND			FT.	KIND			FT.
BUMPER SUB .. O.D.	KIND			FT.	KIND			FT.	KIND			FT.
BIT OR CORE BARREL				FT.				FT.				FT.
TOTAL D.P. & TOOLS				FT.				FT.				FT.
KELLY DOWN (BELOW R.B.)				FT.				FT.				FT.
DEPTH OF TOOLS				FT.				FT.				FT.

TOUR 1
3
CMC

TOUR 2

TOUR 3

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR				FEET				FEET				FEET
DEPTH START OF TOUR				FEET				FEET				FEET
FOOTAGE DRILLED				FEET				FEET				FEET

GGH
CMC

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP S.P.F.T. D.S.I.												
ROTARY SPEED R.P.M.												
WEIGHT ON BIT M.lbs.												
MUD WEIGHT lb/gal	<i>8.9</i>	<i>8.8</i>	<i>8.9</i>	<i>8.8</i>								
VISCOSITY sec/qt	<i>30</i>	<i>32</i>	<i>32</i>	<i>22</i>								
W.L./F.C. cc/32nd			<i>4.5</i>	<i>2</i>								
p.H.			<i>9.0</i>	<i>9.0</i>								
MUD LEVEL IN TANKS Ft. Ins.												

Pressure Test
Blind rams
Ran Schlumber
interval
Top of bore
Perforated
using Schlumber
Collars

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT. HR.	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins. I.H.P.	p.s.i. F.P.	Time	A.M.	Alk	
FROM		I.S.I.	mins. F.H.P.	p.s.i. F.F.P.	Mud Wt	10 Min. Gel		
TO		V.O.	mins. I.S.I.P.	p.s.i. G.T.S.	Visc	W.L.F.C.		
Recovery		F.S.I.	mins. F.S.I.P.	p.s.i. F.T.S.	A.V.	p.H.		
HOURS		RECOVERY			P.V.	Sand		
					Y.P.	CA. ppm		
						CL. ppm		

M. Gray
DST # 4: Pa
placing 4000
bit and
1. replace and
DST # 5
Size of Packer
Testing Co. A
7 3/8" for 30 min
blow on. Pre Fl
of drilling m
I.H.P. 256, F.H.P.
Packer unseat
Insufficient wt.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>J. Peterson</i>	<i>A. CHAMBERS</i>	<i>K. SKINNER</i>	K/d	Depth	Reading
DERRICKMAN	<i>G. Long</i>	<i>W. DIMIRKO</i>	<i>W. WAGSTAFF</i>	<i>To Top</i>	<i>10370</i>	<i>1°</i>
HELPER	<i>A. Benz</i>	<i>G. Gowdiko</i>	<i>M. Lyons</i>			
HELPER	<i>J. Graham</i>	<i>L. CURRITT</i>	<i>F. Ficker</i>			
HELPER	<i>O. Hogan</i>	<i>T. PRAPAZINI</i>	<i>W. KINE</i>			
FIREMAN						
COOL PUSHER	<i>James O. Mason</i>					

SOBC WAI SHAFFER CK 9T 0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971

TOUR

FT.

FT.

FT.

FT.

FT.

FT.

FT.

FT.

FT.

FT.

FT.

FT.

TOUR

FEET

FEET

FEET

HOURS

P.M. 12:00 P.M.

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount	12:45	3:30	
TOUR 1		3:30	4:00	SERVICE RIG @ 1307 C.C. CONDITION ADD. HOIST OUT OF HOLE, BREAK DOWN SETTING TOOL TAKE OFF FLOW NIPPLE, INSTALL FLANGE a LUBRICATOR Rig up SCHLUMBERGER Logging in G.S.G.
GRH	2400#	4:00	5:00	
CMC	50#	5:00	5:30	
		5:30	8:00	
TOUR 2		8:00	11:00	LOGGING & PERFORATING. Pick up 5 w/collars Pick up & MAKE UP FIRST Run in FIRST "4" BRIDGE PLUG KIT G HOIST & Lay DOWN FIRST Run in w/ BIT TO FIND BRIDGE PLUG
		11:00	11:20	
		11:20	12:20	
		12:20	1:20	
		1:20	3:00	
		3:00	4:00	
TOUR 3		4:00	4:10	Find Bridge Plug. (@ 1109) Hoist Sen Rig & B.P.s MAKE UP TEST #4 Run in MAKE UP TESTING HENDS (Pick sand) Testing
GRH	900#	4:10	5:10	
CMC	50#	5:10	6:10	
		6:10	7:10	
		7:10	7:45	
		7:45	12:00	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Pressure Tested blind rams TO 1000 PSI - 10 mins. No bleed back.
Blind rams O.K.

Ran Schlumberger gamma ray/neutron correlation log over
Interval 697 - 250 - 5" scale

Top of bridge plug - Schlumberger 697 KB.

Perforated Interval 504-512 with 2 shots/ft - Total of 17 shots

Using Schlumberger 3 5/8" Uni Gun 20.5 gm chgs. Rate - FDC log

Collars	GR/M log	Gun	604
		5:79	5:74
		5:48	5:47.5
		5:15	5:15

Misrun
DST #4: Perforated interval 504-512. Bridge plug slipped upon
placing 40000# wt on string. Trip out tools - run in with
bit and chased bridge plug to 1109. Took full string weight.
Tripped out and ran in with testing tools. For DST #5

DST #5 Single rubber csg anchor test Perforated Interval 504-512
Size of Packer 11 1/4", choke size 7/8" Length of Tail pipe 660 length of packer 13'

Testing Co East land Testers. Operator K Larson. Pre flow 5 min 151 at
7:35 AM for 30 min V.O @ 8:25 AM for 120 min. FSI at 10:25 AM for 120 min. Good air
blow on Pre Flow Good air blow on V.O - dead in 2 min. Recovered 325'
of drilling mud. Mud wt before test 8.7. Mud weight recovered on test 8.7.
IHP 256, FHP 256, ISIP 218 in 30 min. IFP 180, FFP 161, FSIP 152 PSI in 120 min.
Packer unseated upon taking 151 & FSI and fluid dropped in annulus.
Insufficient wt above packer to use slips. Misrun.

SIGNATURE COMPANY ENGINEER

[Signature]

TOUR REPORT

FIELD *Eagle Plains* WELL NAME *N 66' 42'* CONTRACTOR *GP* RIG NO *15*
 LSD *W 137* SEC *20'* TWP *W* *May 6* 1971

SOBC W
 MUD and CHEMICALS A
 Kind

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS <i>4 1/2</i> D.P.	NO			FT	NO <i>10</i>			FT	NO <i>7</i>			FT
SINGLE D.P.	NO			FT	NO <i>10</i>			FT	NO			FT
X OVER SUB O.D.				FT	<i>220</i>			FT				FT
OTHER O.D.				FT	<i>415</i>			FT				FT
DRILL COLLARS O.D.				FT	<i>10</i>			FT				FT
DRILL COLLARS O.D.	NO			FT	NO			FT	NO			FT
REAMER O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER O.D.	KIND			FT	KIND			FT	KIND			FT
WARS <i>Bridge Plug tool</i> BOMPER SUB	KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL				FT				FT				FT
TOTAL D.P. & TOOLS				FT	<i>95422</i>			FT	<i>67622</i>			FT
KELLY DOWN (BELOW R.B.)				FT				FT	<i>2300</i>			FT
DEPTH OF TOOLS				FT				FT	<i>70000</i>			FT

TOUR 1

TOUR 2
410' 31000

TOUR 3

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR				FEET				FEET				FEET
DEPTH START OF TOUR				FEET				FEET				FEET
FOOTAGE DRILLED				FEET				FEET				FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP S.P.M. D.S.I.	/	/	/	/	/	/	/	/	/	/	/	/
ROTARY SPEED R.P.M.	/	/	/	/	/	/	/	/	/	/	/	/
WEIGHT ON BIT M lbs.	/	/	/	/	/	/	/	/	/	/	/	/
MUD WEIGHT lb/gal	/	/	/	/	/	/	/	/	/	/	/	/
VISCOSITY sec/qt	/	/	/	/	/	/	/	/	/	/	/	/
W.L./F.C. c.c./32nd	/	/	/	/	/	/	/	/	/	/	/	/
p.H.	/	/	/	/	/	/	/	/	/	/	/	/
MUD LEVEL IN TANKS Ft.-Ins.	/	/	/	/	/	/	/	/	/	/	/	/

Plug #4
Plug #5
mixed 15 #1/gal
unit. Press
with 2 bbl
Backwash
Plug #5
Ran 13 1/2'
and set
closed pi
10 min - no
Dumped

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
<i>8 1/4</i>	<i>2 1/2</i>	<i>24239</i>	<i>NW XSSR.</i>	<i>3/22</i>					

CORE No.	No.	DST No.	FROM		TO		MUD ENGINEER'S REPORT						
			PREFLOW	mins	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time	AM	PM	Air	
FROM			I.S.I.	mins.	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt			1st Gel	10 Min Gel
TO			V.O.	mins.	I.S.I.P.	p.s.i.	G.T.S.	mins.	Visc			W.L.F.C.	
Recovery			F.S.I.	mins.	F.S.I.P.	p.s.i.	F.T.S.	mins.	A.V.			p.H.	
HOURS			RECOVERY						P.V.			Solid	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER <i>PETERSEN</i>	<i>H. CHAMBERS</i>	<i>A. SKINNER</i>				
DERRICKMAN <i>G. Long</i>	<i>W. DZIWILKO</i>	<i>W. WAGSTAFF</i>	<i>Total</i>	<i>10370</i>	<i>1'</i>	
HELPER <i>A. BENZ</i>	<i>G. GOWALKO</i>	<i>M. HAYONS</i>				
HELPER <i>J. GRANANI</i>	<i>L. CURKITT</i>	<i>J. CHASE</i>				
HELPER <i>C. HOGAN</i>	<i>T. PIORAZINI</i>	<i>M. RINE</i>				
FIREMAN						
TOOL PUSHER <i>James Fraser</i>						

SOBC WM SHAEFFER CR 4T 0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	Kind	Amount		
TOUR	TOUR 1	12 ⁰⁰	3 ³⁰	W.O. Plug # 4
09 FT		3 ³⁰	4 ⁰⁰	Run in FEEL Plug.
FT		4 ⁰⁰	5 ⁰⁰	Hoist out of Hole
FT		5 ⁰⁰	5 ³⁰	MEASURE IN TO 1250
FT		5 ³⁰	6 ⁰⁰	CIRC
FT		6 ⁰⁰	6 ³⁰	Mix & Pump Down Plug #5
FT		6 ³⁰	7 ⁰⁰	BACK WASH TOP OF Plug
FT		7 ⁰⁰	8 ⁰⁰	Hoist Laying Down 11,25
FT	TOUR 2	8 ⁰⁰	9 ⁰⁰	FINISH LAYING DOWN Plug
FT	110# Bicarb	9 ⁰⁰	10 ⁰⁰	Run in w/ BIT SUD + BIT. + MEASURE IN.
FT		10 ⁰⁰	2 ⁰⁰	Circ + W.O.P
13 FT		2 ⁰⁰	2 ¹⁵	Run in TO 1155 TO FINISH Plug #5
FT		2 ¹⁵	2 ⁴⁵	CIRC.
22 FT		2 ⁴⁵	3 ³⁰	Hoist + Lay Down 6 SINGLES
00 FT		3 ³⁰	4 ⁰⁰	Pick up BRIDGE Plug.
00 FT	TOUR 3	4 ⁰⁰	4 ¹⁵	FINISH MAKING UP BRIDGE Plug
DUR		4 ¹⁵		BRIDGE Plug moving ^{over} THROUGH BRID PAN ON B.O.P. HAUTO
FEET				PULL TABLE + TAKE TABLE BEHIND BECAUSE RIG HAD
FEET			8 ⁰⁰	Settled Down ON BRID PAN.
FEET			8 ³⁰	Run in BRIDGE Plug TO 700'
HOURS			8 ⁴⁵	Set BRIDGE Plug + BACK OFF
P.M. 12 00 P.M.			9 ¹⁰	Close Pipe Rams + Pressure CS9 TO 1000' O.K.
			9 ¹⁵	CIRC Condition mud.
			12 ⁰⁰	

CEMENTING, TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Plug #4 Set at 3170 - 3³⁰ AM

Plug #5 1250 - 1150 140 sacks cement 2 1/2% CaCl₂
Mixed 15% gel slurry from 6⁴⁵ AM - 6¹⁵ AM - 10 min - with BIT skid
unit. Pressure slurry with 5 bbl water Displaced cement
with 2 bbl water & 14 bbl mud. Plug in place 6²⁵ AM.

Backwashed top of plug
Plug #5 Set at 1155 at 2¹⁰ PM

Run 13 3/4" Baker Model K Magnesium Bridge Plug on drill pipe
and set at 700 K.F.

Closed pipe rams and pressure tested TO 1000 psi for
10 min - no block back - pipe rams & bridge plug O.K.

Dumped Tanks & conditioned mud

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *Keagle Plains* WELL NAME *N66°42'*

CONTRACTOR *G.P.* LSD *W137°* SEC *20'* TWP

RIG NO *15* Rpt *W*

50130

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

May 5 1971

MUD and CHEMICALS A

Kind

TOUR 1
BICARB

TOUR 2

TOUR 3
WATER
Bicarb

Play # 2
Mixed 90sax
Average 2 lu
made from
water, follow

Play # 2 f
Play # 3
Mixed 15
with 10 bbl
10⁴⁵ am to 11⁰⁰
Play in p

Play # 4
Mixed 15²
with 7 bbl
bbl made

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO <i>89</i>			FT	NO <i>42</i>			FT	NO <i>34</i>			FT
SINGLE	D.P.	NO			FT	NO			FT	NO			FT
X OVER SUB	O.D.			<i>300</i>	FT			<i>300</i>	FT			<i>300</i>	FT
OTHER	O.D.				FT				FT				FT
DRILL COLLARS	O.D.	<i>10</i>		<i>30604</i>	FT	<i>10</i>		<i>30604</i>	FT			<i>30604</i>	FT
DRILL COLLARS	O.D.	NO			FT	NO			FT	NO			FT
REAMER	O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER	O.D.	KIND			FT	KIND			FT	KIND			FT
JARS	O.D.	KIND			FT	KIND			FT	KIND			FT
BUMPER SUB	O.D.	KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL	O.D.				FT				FT				FT
TOTAL D.P. & TOOLS	O.D.				FT				FT				FT
KELLY DOWN (BELOW R.B.)	O.D.				FT				FT				FT
DEPTH OF TOOLS	O.D.				FT				FT				FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		<i>4150</i>	
DEPTH START OF TOUR			
FOOTAGE DRILLED			

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP												
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT								<i>10.5</i>				
VISCOSITY								<i>135</i>				
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	I.H.P.	p.s.i.	F.F.P.	p.s.i.	Time	A.M. / P.M.
FROM		ISI	mins	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt	Int. Gel / 10 Min. Gel
TO		V.O.	mins	I.S.I.P.	p.s.i.	G.T.S.	mins	Visc.	W.L.F.C.
Recovery		F.S.I.	mins	F.S.I.P.	p.s.i.	F.T.S.	mins	A.V.	p.H.
HOURS		RECOVERY						P.V.	Sand / CA. ppm / CL. ppm

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>J. Petersen</i>	<i>A. Chambers</i>	<i>H. Skinner</i>	Kind	Depth	Reading
DERRICKMAN	<i>G. Long</i>	<i>W. Duvicko</i>	<i>W. Wagstaff</i>	<i>110</i>	<i>10370</i>	<i>1'</i>
HELPER	<i>A. Benz</i>	<i>G. Gowalko</i>	<i>M. Lyons</i>			
HELPER	<i>J. Graham</i>	<i>L. Curkett</i>	<i>I. Fieber</i>			
HELPER	<i>G. Hogan</i>	<i>T. Prorazini</i>	<i>M. Rine</i>			
THREMAN						
PUSHER	<i>James Kruse</i>					

MUD and CHEMICALS ADDED		From	To	WORK DONE
Kind	Amount			
1921		12 ⁰⁰	12 ⁴⁵	Mix & Pump Down Plug #2
TOUR		12 ⁴⁵	1 ⁰⁰	Hoist 4 STDS
FT	BICARB	1 ⁰⁰	1 ¹⁵	BREAK CIRC
FT		1 ¹⁵	3 ³⁰	Hoist, Lay Down 63 59's
00		3 ³⁰	4 ⁰⁰	Run in 19 STDS
FT		4 ⁰⁰	4 ³⁰	Change SWIVEL PACKING
FT		4 ³⁰	4 ⁴⁵	RG SERVICE
004		4 ⁴⁵		LOG, CIRC & WORK PIPE CONDITIONED
FT				
FT	TOUR 2	8 ⁰⁰	8 ³⁰	Circ & WOP. Ric Serv BUP
FT		8 ³⁰	8 ⁴⁵	Run in & Pull Plug #2
FT		8 ⁴⁵	10 ¹⁵	Hoist to 4250 to Run Plug #3
FT		10 ¹⁵	10 ³⁰	CIRC.
FT		10 ³⁰	11 ⁰⁰	Run Plug no. 3.
FT		11 ⁰⁰	11 ¹²	Hoist out of cement.
FT		11 ¹²	11 ²⁵	CIRC
FT		11 ²⁵	3 ³⁵	Hoist Lay Down 129 SIMGALS
FT	TOUR 3	3 ³⁵	4 ⁰⁰	Run in
OUR	WATER	4 ⁰⁰	4 ³⁰	Run in
FEET	Bicarb	4 ³⁰	6 ⁰⁰	Circ Ric Serv
FEET		6 ⁰⁰	6 ⁴⁵	Run in FEET Plug #3 @ 4155
FEET		6 ⁴⁵	7 ⁰⁰	Pull 9 stas BREAK CIRC
HOURS		7 ⁰⁰	8 ⁰⁰	Run Plug #1
P.M.	12:00 P.M.	8 ⁰⁰	8 ¹⁵	Pull 4500 5000 in overick
		8 ¹⁵	10 ⁰⁰	BREAK CIRC Lay Down 33 SINGALS Run in 14
		10 ⁰⁰	12 ⁰⁰	CIRC STANDS Left 2stain overick

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Plug # 2 8450 - 8300 - 90 sax plus 0.2% R5
 Mixed 90sax Type I cement from 12¹⁵ am to 12²⁵ am with BJ skid cementer
 Average slurry weight 15¹/₂ gal Displaced with 118 bbls of drilling
 mud from 12³⁰ am to 12³⁵ am Preceded slurry with 15 bbl
 water, followed slurry with 5 bbl water. Plug in place 12⁴⁰ am

Plug # 2 felt at 8285 at 8³⁰ am.

Plug # 3 4250 - 4150 - 50 sax cement 2% CaCl₂
 mixed 15¹/₂ gal slurry from 10⁴⁰ am to 10⁴⁴ am - preceded slurry
 with 10 bbl water and displaced with 59 bbl mud in 15 min from
 10⁴⁵ am to 11⁰⁰ am. Followed slurry with 5 bbl water.

Plug in place 11⁰⁰ am

Plug # 3 felt at 4155 @ 6⁴⁵ pm.

Plug # 4 3300 - 3200 - 50 sax cement 2% CaCl₂
 mixed 15¹/₂ gal slurry from 7⁴⁰ pm to 7⁴⁴ pm - preceded slurry
 with 7 bbl water. Displaced plug with 3 bbl water followed by 40
 bbl mud Plug in place 7⁴⁵ pm

L. F. [Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **E.I.** RIG NO **15**
 LSD **42** SEC TWP **137** Rge **20** W

206C U

FIELD **Wildcat** WELL NAME **N66**

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **MAY 4** 1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR						
STANDS	D.P.	NO. 85				FT	NO				FT	NO				FT
SINGLE	D.P.	NO. 1	8057	36		FT	NO				FT	NO				FT
X-OVER SUB	7 O.D.	1		320		FT					FT					FT
OTHER	O.D.					FT					FT					FT
DRILL COLLARS	7 O.D.	10	3060	4		FT					FT					FT
DRILL COLLARS	O.D.	NO.				FT	NO				FT	NO				FT
REAMER	O.D.	KIND				FT	KIND				FT	KIND				FT
STABILIZER	O.D.	KIND				FT	KIND				FT	KIND				FT
JARS		KIND				FT	KIND				FT	KIND				FT
BUMPER SUB		KIND				FT	KIND				FT	KIND				FT
BIT OR COP: BARREL	TEST TOOL			7560		FT					FT					FT
TOTAL D.P. & TOOLS			844200			FT					FT					FT
KELLY DOWN (BELOW R.B.)						FT					FT					FT
DEPTH OF TOOLS						FT					FT					FT

MUD and CHEMICALS	Kind
	TOUR 1
	TOUR 2
	TOUR 3

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR					
DEPTH END OF TOUR	10373				FEET	10373				FEET				FEET
DEPTH START OF TOUR	T.O.				FEET	T.O.				FEET				FEET
FOOTAGE DRILLED					FEET					FEET				FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
W.L.F.C.	/											
p.H.	/											
MUD LEVEL IN TANKS	/											

Play #1
STARTED
9:42 PM - F.I.
Proceeded
with 5 b.b.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time 8 PM	Air 0.3
FROM		ISI	mins	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt 10.9	Int. Gel 29
TO		V.O.	mins	ISIP	p.s.i.	G.T.S.	mins	Visc 220	W.L.F.C. 6.0/2
Recovery		F.S.I	mins	F.S.I.P.	p.s.i.	F.T.S.	mins	AV 122	pH 9.5
HOURS		RECOVERY						PV 80	Solid 19
								YP 85	CA. ppm 80
									CL. ppm 100

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
HELPER	D.M. CRAIG	A Benz	G. Rowalko
HELPER	J. WANDLER	J. Graham	A. CURLIETZ
HELPER	H. JACOBSON	L. Hogan	T. PUDRAZINI

[Handwritten signature]

SOBC WMI SHAFFER CKY 022.

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1971		12 ⁰⁰	2 ⁰⁰	TESTING PULL PACKER loose HOIST DST #3 CHAIN OUT READ CHARTS
TOUR 1		2 ⁰⁰	2 ¹⁵	
		2 ¹⁵	8 ⁰⁰	
FT				
FT				
FT				
FT				
FT				
FT				
FT				
FT				
FT				
TOUR 2		8 ¹⁵	8 ¹⁵	Rig service BOPs
		8 ¹⁵	10 ³⁰	Break out - lay down packer
		10 ³⁰	11 ⁰⁰	Stand back drill collars
		11 ⁰⁰	11 ⁴⁵	Slip & cut drilling line
		11 ⁴⁵	4 ⁰⁰	Trip in open end pipe and pick up 12 singles & breakers 110 stds in string
TOUR 3		4 ⁰⁰	4 ⁰⁰	CIRC + W/P.P.P. + COALD WIND
		9 ⁰⁰	10 ⁰⁰	RG TO EQUIPMENT + CEMENTING
		10 ⁰⁰	12 ⁰⁰	HOIST 4 STRAWS + 13 AX APP + HOIST 15' STAND
FEET				
FEET				
FEET				
HOURS				
P.M.	12:00 P.M.			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Plug #1 10300 - 10150 - 90 sax Type I cement plus ^{0.4%} ~~0.00%~~ RS
 Started mixing at 9³⁰pm - Finished mixing 9⁴⁰pm - Start displacing
 9⁴²pm - Finished displacing 10⁰⁰pm - 144 bbls -
 Preceded slurry with 15 bbls water. Followed slurry
 with 5 bbls water. Slurry wt 15⁰⁰/gal. Plug in place 10⁰⁵pm

CONDITION

REPORT

0.3
 Gel
 An Gel 29
 FC 6.0/2
 9.5
 19
 ppm 80
 ppm 1800

RD

Reading
 1.

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **WILDCAT** WELL NAME **N66**

CONTRACTOR **G.I.P** RIG NO **15**
 LSD **42** SEC **TWP 137** Rge **20 W**

508C WA

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MAY 3 1971**

MUD and CHEMICALS AD

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 106 100 280 2 FT	NO 106 100 280 2 FT	NO 85 FT
SINGLE D.P.	NO. FT	NO. FT	NO 1 805 736 FT
X-OVER SUB 7 O.D.	1 300 FT	300 FT	300 FT
OTHER O.D.	FT	FT	FT
DRILL COLLARS 7 O.D.	10 306 04 FT	306 04 FT	306 04 FT
DRILL COLLARS O.D.	NO. FT	NO. FT	NO. FT
REAMER O.D.	KIND FT	KIND FT	KIND FT
STABILIZER O.D.	KIND FT	KIND FT	KIND FT
JARS	KIND FT	KIND FT	KIND FT
BUMPER SUB.	FT	FT	FT
BIT OR CORE BARREL	FT	FT	FT ^{First Tools} 7560
TOTAL D.P. & TOOLS	1033806 FT	FT	844200 FT
KELLY DOWN (BELOW R.B.)	36 FT	FT	FT
DEPTH OF TOOLS	1037306 FT	FT	FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	FEET	FEET	FEET
DEPTH START OF TOUR	10373 FEET	10373 FEET	10373 FEET
FOOTAGE DRILLED	FEET	FEET	FEET

TOUR 1
Spersene 200 Caustic Water
TOUR 2
Spersene Caustic Water
TOUR 3
Spersene Caustic Water

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP s.p.m. p.s.i.	64 1200	64 1200	64 1200									
ROTARY SPEED R.P.M.												
WEIGHT ON BIT M lbs.												
MUD WEIGHT lb/gal	10.9	10.9	10.9									
VISCOSITY sec/qt	240	320	238									
W.L./F.C. c.c./32nd												
p.H.												
MUD LEVEL IN TANKS Ft. Ins.												

DST #3
 Testing Co.
 String equip
 Straddle By Po
 Valve Se
 Pre flow 10 m
 V.O at 8⁵⁰
 throughout
 Recovered
 Cl content
 Cl content
 Mud wt p
 Mud wt recor
 IHP 4914
 FSI 2190
 Charts O.K.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT/HR	BIT CONDITION
4A	8 3/4		HW 155R	3/32					Clean Out Trip

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW:	mins	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time	A.M. P.M.
FROM		I.S.I.	mins	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt	Int. Gel 10 Min. Gel
TO		V.O.	mins	I.S.I.P.	p.s.i.	G.T.S.	mins	Visc	W.L.F.C.
Recovery		F.S.I.	mins	F.S.I.P.	p.s.i.	F.T.S.	mins	A.V.	p.H.
HOURS		RECOVERY						P.V.	Solid C.A. p.p.m. C.L. p.p.m.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	Ed KRAWCHUK	J Peterson	A Chmizins			
DERRICKMAN	LES WHITING	Q Long	W Dzwisko	TotCo	10370	1
HELPER	D McCuaig	A Benz	G Gowalko			
HELPER	J WANDLER	J GLANAM	L CHARLTT			
	J JACOBSON	R HOGAN	T PIRAZINI			

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208C WM SHAEFFER CKY 0-22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL W.C. DONE
Kind	Amount			
1971 ON TOUR				
TOUR 1				
Spersene 200	125	12:00	7:15	CIRK W/ PIPE CON MUD Hoist To TEST blow Kelly
CAUSTIC	125 ^u	7:15	8:00	
Water				
TOUR 2				
		8:00	11:00	Hoist To Run DST #3 Pick up a MAKE UP PACKER TRIP IN SLOW W/ PACKER (MEASURE IN).
		11:00	1:45	
		1:45	4:00	
TOUR 3				
Spersene	400 ^u	4:15	4:15	RIG SHUT FINISH RUNNING TEST #3 IN + MEASURE IN RIG TO TEST. TESTING.
CAUSTIC	125 ^u	4:15	5:20	
Water		5:20	6:00	
		6:00	12:00	

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

DST #3 Interval 8314 - 8520
 Testing Co: Lynes United Services; Operator Pat Mc Dunnell
 String equipped with Lee Jars, Safety joint, Pump out sub
 Saddle By Pass Inlettable Pump, Three Recorders, Remote Control
 Valve Sampler.

Pre flow 10 min - good steady air blow 151 at 7:00 PM for 60 min
 VD at 8:00 PM for 180 min GTS in 4 min TSTM - steady rate
 throughout test. FSI at 11:00 PM for 180 min.

Recovered 120 ft of drilling mud

Cl content mud before test

Cl content mud after test

Mud wt before test 10.9

Mud wt recovered on test

IHP 4914 FHP 4813 ISIP 1067 - 60 min IEP 49 FEP 74

FSIP 2190 180 min Pre flow Pressure 74

Charts O.K. Test Satisfactory

LT G...
 SIGNATURE COMPANY ENGINEER

208C WM SHAEFFER CKY 0-22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL W.C. DONE
Kind	Amount			
1971 ON TOUR				
TOUR 1				
Spersene 200	125	12:00	7:15	CIRK W/ PIPE CON MUD Hoist To TEST blow Kelly
CAUSTIC	125 ^u	7:15	8:00	
Water				
TOUR 2				
		8:00	11:00	Hoist To Run DST #3 Pick up a MAKE UP PACKER TRIP IN SLOW W/ PACKER (MEASURE IN).
		11:00	1:45	
		1:45	4:00	
TOUR 3				
Spersene	400 ^u	4:15	4:15	RIG SHUT FINISH RUNNING TEST #3 IN + MEASURE IN RIG TO TEST. TESTING.
CAUSTIC	125 ^u	4:15	5:20	
Water		5:20	6:00	
		6:00	12:00	

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

DST #3 Interval 8314 - 8520
 Testing Co: Lynes United Services; Operator Pat Mc Dunnell
 String equipped with Lee Jars, Safety joint, Pump out sub
 Saddle By Pass Inlettable Pump, Three Recorders, Remote Control
 Valve Sampler.
 Pre flow 10 min - good steady air blow 151 at 7⁰⁰ PM for 60 min
 VD at 8⁰⁰ PM for 180 min GTS in 4 min TSTM - steady rate
 throughout test. FSI at 11⁰⁰ PM for 180 min.
 Recovered 120 ft of drilling mud
 CI content mud before test
 CI content mud after test
 Mud wt before test 10.9
 Mud wt recovered on test
 IHP 4914 FHP 4813 ISIP 1067 - 60 min IEP 49 FFP 74
 FSIP 2190 180 min Pre flow Pressure 74
 Charts O.K. Test Satisfactory

LT G. Gammell
 SIGNATURE COMPANY ENGINEER

SOBLOWN SHAFFER CKVT #022

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING LOG WORK DONE
Kind	Amount			
TOUR 1		12:00 445	4:45 800	TESTING #2. HOIST TEST CHAIN OUT
TOUR 2		10:45 130	1:30 145	FINISH HOISTING TESTER, RECOVER & REWIND CHARTS BREAK DOWN, SERVICE & LAY DOWN PACKED RIG SERVICE & BOGS TRIP IN TO CLEAN OUT HOLE
		1:30 145	4:00 400	
		4:00 400		
TOUR 3		4:00 7E	7E	Run ind. - BREAK CIRC @ 5000' + 8000'
Spersone	150 ^{cc}	7E	7E	BIG SERS
Caustic	100 ^{cc}	7E	7E	CIRC 90' TO BOTTOM. (NO FILL)
Dowicide	15 ^{cc}	7E	7E	CIRC + W/PIST @ COND. MUD.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DST #2 Interval 8314 - 8417 - dual straddle by pass inflatable testing company - Lynes United Operator. Pat McDonnell.
 String equipped with jugs & safety joint.
 Size of rubbers 7 5/8" x 66" inflatables. Size of choke 3/4"
 Length of perforated joint - 12". Pump out sub 120' up. 3 - AK3, Kusier outside recorders 8322, 8322 + 8433
 Profile 5 min ~~1.5%~~ at 11:15 PM May 1/71 for 60 min V.O. at 12:20 AM May 2/71 for 120 min FSI at 2:00 AM for 120 min. Very weak blow on preflow - no blow on V.O. - reset after 60 min. no putt or blow. No fluid drop in annulus. Required 20,000^{psi} even weight at string to unseat packers. Recovered 65' of drilling fluids. Mud wt before test 11.0 Mud weight after test 10.5
 Cl content mud before test 500 ppm. Cl content recovered on test 750 ppm
 LHP 4900 Preflow 197 1st IP 738 1st FFP 517 FFP 640 - 60 min "reset tool", H.P. 4900 2nd FFP 566, 2nd FFP 665 psi in 60 min. FSI 788 psi in 60 min - incomplete. LHP 4775
 Charts indicate plugging - Tool contained scale - MIS RUN

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *R.P.* RIG NO *15*
 FIELD *Wildcat* WELL NAME *N66* LSD *42* SEC TWP *137* R₁ *20* W

305CWT

[] DRILLING [] DEEPENING [] COMPLETING
 [] REDRILLING [] ABANDONING [] REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *MAY 1* 1971

MUD and CHEMICALS Kind

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR				
STANDS	D.P.	NO <i>105</i> FT				NO <i>105</i> FT				NO <i>86</i> FT				
SINGLE	D.P.	NO <i>1</i> 996164 FT				NO <i>1</i> 996164 FT				NO <i>3</i> FT				
X OVER SUB	O.D.	<i>1</i> 300 FT				<i>1</i> 300 FT				<i>1</i> 300 FT				
OTHER	O.D.	FT				FT				FT				
DRILL COLLARS	O.D.	<i>10</i> 30604 FT				<i>10</i> 30604 FT				<i>10</i> 30604 FT				
DRILL COLLARS	O.D.	NO FT				NO FT				NO FT				
REAMER	O.D.	KIND FT				KIND FT				KIND FT				
STABILIZER	O.D.	KIND FT				KIND FT				KIND FT				
JARS	KIND	<i>Testing tool</i> 10238 FT				KIND FT				KIND FT				
BUMPER SUB	KIND	FT				KIND FT				KIND FT				
BIT OR CORE BARREL		FT				FT				<i>Test Tools</i> 10405 FT				
TOTAL D.P. & TOOLS		1037306 FT				FT				032705 FT				
KELLY DOWN (BELOW R.B.)		FT				FT				FT				
DEPTH OF TOOLS		FT				FT				032705 FT				
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR				
DEPTH END OF TOUR		FEET				FEET				FEET				
DEPTH START OF TOUR		10373 FEET				10373 FEET				10373 FEET				
FOOTAGE DRILLED		FEET				FEET				FEET				
DAY WORK		HOURS				HOURS				HOURS				
		2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.	
PUMP	s.p.m. / p.s.i.	/				/				/				
ROTARY SPEED	R.P.M.	/				/				/				
WEIGHT ON BIT	M lbs	/				/				/				
MUD WEIGHT	lb/gal	/				/				/				
VISCOSITY	sec/qt	/				/				/				
W.L.F.C.	c.c./32nd	/				/				/				
p.H.		/				/				/				
MUD LEVEL IN TANKS	Ft.-Ins.	/				/				/				
NO.	SIZE	SERIAL	BIT KIND AND TYPE		JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION				
CORE No.	No.	DST No.	FROM		TO		MUD ENGINEER'S REPORT							
TYPE		PREFLOW	mins.	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time	A.M.	P.M.	AK			
FROM		I.S.I.	mins.	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt			Int. Gel			
TO		V.O.	mins.	I.S.I.P.	p.s.i.	G.T.S.	mins.	Visc			W.L.F.C.			
Recovery		F.S.I.	mins.	F.S.I.P.	p.s.i.	F.T.S.	mins.	A.V.			p.H.			
HOURS		RECOVERY						P.V.			Sand			
								C.A. ppm			CL ppm			
SIGNATURES	MORNING TOUR		DAYLIGHT TOUR				AFTERNOON TOUR				DEVIATION RECORD			
DRILLER	<i>Ed Krawchuk</i>		<i>J Petersen</i>				<i>A Chambers</i>				Kind	Depth	Reading	
DERRICKMAN	<i>Les Whiting</i>		<i>G Long</i>				<i>W Dennis</i>							
HELPER	<i>D McChaughey</i>		<i>A Benz</i>				<i>G Gokwaldo</i>							
HELPER	<i>I Wandler</i>		<i>J Graham</i>				<i>L Curlette</i>							
HELPER	<i>J Jacobson</i>		<i>C Hogan</i>				<i>T Pizzanuzzi</i>							
FIREMAN	<i>James Kruger</i>													
TOOL PUSHER														

TOUR 1

TOUR 2

TOUR 3

DST #1 Int
 Testing Co.
 String equ
 Size of packer
 perforated
 run at 89
 Pre flo 10 mi
 4 AM for 120
 measured at
 in annulus.
 Recovery: 11
 Cushion and
 Mud weight
 Test 500 pp
 IHP 5266, F
 FSI 987
 3 AM - Petr
 Ambient Temp
 Alcohol Ret
 Remarks
 Charts 0.
 2 packer r

505C Wth SHAEFFER CRTV 0-22

1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAILS WORK DONE
IN TOUR	Kind	Amount				
6 46 FT	TOUR 1		12 00	12 30		FINISH IN W/ TESTING TOOL #1 HEAD UP TESTING STRING TESTING
3 00 FT			12 30	8 00		
6 6 W FT						
8 00 FT			8 00	12 00		HOIST TESTER BREAK DOWN TOOL, RECOVER CHARTS LPH DOWN TOOL. HOIST TAIL PIPE SLIP + CUT 63' Dtlg LINE
6 00 FT	TOUR 2		12 00	9 00		
7 05 FT			2 00	3 00		
7 05 FT			3 00	4 00		
7 05 FT	TOUR 3		4 00	4 05		PRECISION SLIP Pickup TEST No. 2. Run in w/ TEST + MTRASURIC INJ. PIC TO TEST. TESTING
3 FEET			4 15	6 05		
3 FEET			6 05	10 20		
3 FEET			10 20	11 00		
HOURS			11 00	12 00		
P.M. 12 00 P.M.						

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DST #1 Interval 9004-9068 - dual Straddle by Pass - Full hole
 Testing Co: Eastland Testers Operator Ken Larson.
 String equipped with Jars and safety joint
 Size of packer rubbers - 8", size of choke - 7/8". Length of perforated joint 18'. Pump out subs 90' above Tool. 3 inside recorders run at 8983, 8988 and 9065.
 Pre flo 10 min. 1.5l. at 1:30 AM for 60 min. V.O at 2:30 AM for 120 min. FSI at 4:30 AM for 120 min. Strong steady air blow on pre flo. GTS immediately on 0 measured at 10 MCF - remained steady throughout test. No fluid drop in annulus. Required 30,000 lb over string weight to unseat packer
 Recovery: 1180 ft of fluid consisting of 1030' of gassy water cushion and 150' of gassy drilling mud. Mud wt before test 11.0
 Mud weight recovered on test 9.4. CI content mud before test 500 ppm. CI content mud recovered on test 4000 ppm.
 IHP 5266, FHP 5004, 15IP 2107 - 60 min incomplete. 15IP 564, FHP 604
 FSI 982 in 120 min incomplete. Test interval Temp 161 °F.
 3 AM - Refrigeration Conductor B61
 Ambient Temp +10 °F
 Alcohol Refers +25 °F
 Remarks re DST #1
 Charts O.K. Test satisfactory.
 2 packer rubbers damaged

L. F. Gumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GIP** RIG NO **15**
 FIELD **WILDCAT** WELL NAME **LSO N66 SEC 42 TWP 137 R4E 20 W**

SOBC U

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **APRIL 30 1971**

MUD and CHEMICALS A Kind

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 406 1002802 FT	NO 1002802 FT	NO 402564 FT
SINGLE D.P.	NO	NO	NO 996164 FT
X-OVER SUB	7 O.D. 1 300 FT	300 FT	300 FT
OTHER O.D.			
DRILL COLLARS	7 O.D. 10 30604 FT	30604 FT	30604 FT
DRILL COLLARS O.D.	NO	NO	NO
REAMER O.D.	KIND	KIND	KIND
STABILIZER O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
BUMPER SUB	KIND	KIND	KIND
BIT OR CORE BARREL			10238 FT
TOTAL D.P. & TOOLS	1033706 FT	1033706 FT	1037306 FT
KELLY DOWN (BELOW R.B.)	3600 FT	3600 FT	
DEPTH OF TOOLS	1037306 FT	1037306 FT	1037200 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	110 FEET	10373 FEET	10373 FEET
DEPTH START OF TOUR		10373 FEET	10373 FEET
FOOTAGE DRILLED		0 FEET	

TOUR 1
Sperane
Poweride
Water

TOUR 2
Ammonia Pills
Sperane
Caustic

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	62/1300											
ROTARY SPEED R.P.M.												
WEIGHT ON BIT M lbs.												
MUD WEIGHT lb/gal	10.2				10.9				11.0			
VISCOSITY sec/qt	475				220				270			
W.L.F.C. c.c./32nd												
p.H.	9.5											
MUD LEVEL IN TANKS Ft.-Ins.												

TOUR 3

Condition
 Tripped
 Tools for
 Ran 1030

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
48	6 3/4	24239	HW x 5 5/8	3/32					Clean BUT Trip

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins.	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time 10 AM	AK 0.25
FROM		I.S.I.	mins.	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt 11.0	Int Gel 10
TO		V.O.	mins.	I.S.I.P.	p.s.i.	G.T.S.	mins.	Visc 225	W.L.F.C 48/2
Recovery		F.S.I.	mins.	F.S.I.P.	p.s.i.	F.T.S.	mins.	A.V 128	pH 9.0
HOURS		RECOVERY						P.V 82	Solid 17
								V.P 92	CA.p.p.m 100
									CL.p.p.m 300

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	Ed Krauchuk	J. JOHNSON	A. CHAMBERS	Kind	Depth	Reading
DERRICKMAN	LES WHITING	G. LONG	W. DIMIRKO			
HELPER	P. MCCANN	A. BENZ	G. GOWALKO			
HELPER	J. WANDER	J. GLADMAN	L. CURRIE			
HELPER	J. JACOBSON	C. HOGAN	T. PROPRIZINE			
FIREMAN						
TOOL PUSHER						

Refrigeration
 8 AM Amb

SOBC WM SHAFFER CITY 22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING LETAL WORK DONE
Kind	Amount			
1971				
TOUR	TOUR 1	12	1200	
3 64 FT	Sperone		230	CIRC RUN IN PICK UP 10 SINGLES
1 64 FT	Downside	15	220	CIRC 90 FT TO BTAL
3 00 FT	Water		245	Pig SEX. SOME
			800	CIRC Condition mud
6 04 FT				
	TOUR 2	800	900	
	American Pills	70#	900	Circ, Condition mud & Hole
	Sperone	200#	915	Rig Service & Dogs
2 38 FT	Causeic	100#	145	Circ, Condition mud & Hole -
				HOISTING.
3 06 FT				
3 00 FT	TOUR 3	400	500	FINISH. HOISTING.
TOUR		500	600	RIG SERVICE
3 FEET		600	645	Pickup TANK 1700.
3 FEET		645	812	PICK UP FIRST TOOLS + MAKE UP SWAMP.
FEET		812	1200	RUN IN FIRST #1 w/ 1000' WATER.
HOURS				
P.M. 12.00 P.M.				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Condition mud & hole
 Tripped out and picked up Testing
 Tools for DST #1 Interval 9004 - 9068
 Ran 1030' water cushion

CONDITION

PUT

REPORT

0.25
 Gel 10
 Min Gel 35
 F.C. 4.8/2
 9.0
 17
 100
 200

WORD

Reading

Refrigeration Conductor Bkl
 8 AM Ambient Temp +14°F Alcohol returns +26°F

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **B.P** HIG NO **15**
 LSD **N66** SEC **42** TWP **137** Rpt **20** W

508C W

FIELD **WILCOOT** WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

APRIL 29 1971

MUD CHEMICALS A Kind

TOUR 1

TOUR 2

TOUR 3

*Ran 2
Recover
9487, 8313,
7223, 6807,
4370, 4246,
2828, 2733
1605, 1515*

Ran veloc.

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR							
STANDS	DP	NO 102			FT	NO 102			FT	106	100	69	99	FT			
SINGLE	DP	NO 2	97	12	35	FT	NO 2	97	12	35	FT	NO		FT			
X OVER SUB	7 O.D.	1			300	FT				300	FT			300	FT		
OTHER	O.D.					FT					FT				FT		
DRILL COLLARS	7 O.D.	20	61	3	68	FT				613	68			306	04	FT	
DRILL COLLARS	O.D.	NO				FT	NO				FT	NO			FT		
REAMER	O.D.	KIND				FT	KIND				FT	KIND			FT		
STABILIZER	O.D.	KIND				FT	KIND				FT	KIND			FT		
JARS		KIND				FT	KIND				FT	KIND			FT		
BUMPER SUB		KIND				FT	KIND				FT	KIND			FT		
BIT OR CORE BARREL						FT					FT	203	29	03	FT		
TOTAL D.P. & TOOLS			103	29	03	FT		103	29	03	FT	103	29	03	FT		
KELLY DOWN (BELOW R.B.)					40	97	FT				40	97	FT		40	10	FT
DEPTH OF TOOLS			103	29	00	FT		103	29	00	FT		103	29	00	FT	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR	T.O.	10370	10370
FOOTAGE DRILLED			

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
W.L.F.C.	/											
p.H.	/											
MUD LEVEL IN TANKS	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	BIT CONDITION
45	8 3/4	29239	HW X55K	3/32				Clean but fine

CORE No.	No.	DST No.	FROM		TO		MUD ENGINEER'S REPORT						
			PREFLOW	mins.	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time	AM	PM	AK	
FROM			I.S.I.	mins.	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt.			Int. Gel	10 Min. Gel
TO			V.O.	mins.	I.S.I.P.	p.s.i.	G.T.S.	mins.	Visc			W.L.F.C.	
Recovery			F.S.I.	mins.	F.S.I.P.	p.s.i.	F.T.S.	mins.	A.V.			p.H.	
HOURS			RECOVERY						P.V.			Soud	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Y.P.	DEVIATION RECORD		
					Kind	Depth	Reading
DRILLER	Ed Krawchuk	J Petersen	A Chambers				
DERRICKMAN	Les Whiting	G Long	W Dieniero		T.T.O.	10370	1'
HELPER	D McCaig	A Benz	G Gwaliso				
HELPER	J Wandler	J Glendon	L Curlett				
HELPER	J Jacobson		T Prodrzini				
FIREMAN							
TOOL PUSHER							

SORC WM SHAEFFER CKYT 0-22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1971		1200	800	Logging w/ 5c
TOUR	TOUR 1			
799 FT				
300 FT				
604 FT				
	TOUR 2	800	230	Logging
		230	300	Rig Service, Start Motors
		300	400	Log Down Core P&L
903 FT				
003 FT				
080 FT				
000 FT	TOUR 3	400	420	Run in D/Collars
		420	520	Log Down 10' D/Collars
		520	550	Rig Service + 120PS
		550	620	Ship + Cut D/Collars
		620	720	THAW out mud lines up to Kelly
		720		Run in + 3000' + 5000' + 8000'
			1200	+ THAW out Kelly Hose

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Ran 2 runs with Schlumberger Sidewall core gun
 Recovered 43 out of 48 cores. Intervals side wall coring
 9487, 8313, 8284, 8202, 7973, 7901, 7822, 7637, 7564, 7389, 7318
 7223, 6807, 6724, 6647, 6427, 5744, 5651, 5165, 5076, 4790, 4549
 4370, 4246, 4091, 3906, 3705, 3590, 3366, 3289, 3156, 3106, 2954,
 2828, 2733, 2545, 2432, 2326, 2253, 1948, 1847, 1808, 1758, 1684
 1605, 1515, 1441 + 1352.

Ran velocity survey - Century Geophysical & Schlumberger

L F Jumblety
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **B.P.** RIG NO **12**
 LSD **1166** SEC **42** TWP **137** R₁ **20** W

FIELD **WILDCAT** WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **APRIL 28 1971**

2050

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. DP	NO. 102		FT	NO. 102		FT	NO. 102		FT
SINGLE .. DP	NO. 2	971235	FT	NO. 2	971235	FT	NO. 2	971235	FT
X OVER SUB .. 7 OD	1	300	FT		300	FT		300	FT
OTHER .. OD			FT			FT			FT
DRILL COLLARS .. 7 OD	20	61368	FT		61368	FT		61368	FT
DRILL COLLARS .. OD	NO.		FT	NO.		FT	NO.		FT
REAMER .. OD	KIND		FT	KIND		FT	KIND		FT
STABILIZER .. OD	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB			FT			FT			FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL DP & TOOLS		1032903	FT		1032903	FT		1032903	FT
KELLY DOWN (BELOW R.B.)		4097	FT		4097	FT		4097	FT
DEPTH OF TOOLS		1037000	FT		1037000	FT		1037000	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			FEET			FEET			FEET
DEPTH START OF TOUR		10370	FEET		10370	FEET		10370	FEET
FOOTAGE DRILLED			FEET			FEET			FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP s.p.m. p.s.i.	/	/	/	/	/	/	/	/	/	/	/	/
ROTARY SPEED R.P.M.												
WEIGHT ON BIT M lbs.												
MUD WEIGHT lb/gal												
VISCOSITY sec. qt												
W.L./F.C. c.c./32nd	/	/	/	/	/	/	/	/	/	/	/	/
p.H.												
MUD LEVEL IN TANKS Ft.-Ins.												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
44	8 3/4	24289	1585 H.W.	3/14	48 3/4	10 18	10 370	250	55 2-3-1

CORE No.	No.	DST No.	FROM				TO				MUD ENGINEER'S REPORT		
			PREFLOW	mins.	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time	A.M. P.M.	IK		
			I.S.I.	mins.	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt.	10 Min. Gel			
			V.O.	mins.	I.S.I.P.	p.s.i.	G.T.S.	mins.	Visc	W.L.F.C.			
			F.S.I.	mins.	F.S.I.P.	p.s.i.	F.T.S.	mins.	A.V.	p.H.			
			RECOVERY						P.V.	Solid			
									Y.P.	CA ppm			
										CL ppm			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	Ed Krauchur	J. Petersen	A. Chambers			
DERRICKMAN	Les Whiting	G. Long	W. Demitko	10 100	10 118	1 7/8
HELPER	D. McCann	A. Benz	C. Gowalko	11	10 370	1
HELPER	J. Wandler	J. Graham	L. Curlett			
HELPER	J. Jacobson					
FIREMAN						
TOOL PUSHER						

MUD AND CHEMICALS Kind

TOUR 1

TOUR 2

TOUR 3

Double

Ran Log Dual Ind BHC GR-C S.M.P. F.D.C.

8 1/2 Am - Circ Ambient T

205C WMI SHEET 5 CR 10 12

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	12 ¹⁵	RIG SERV BOMS
		12 ¹⁵	1 ³⁰	CIRC WORK PIPE TO LOG.
		1 ³⁰	2 ⁰⁰	SURVEY @ 10370
		2 ⁰⁰	8 ⁰⁰	HOIST DOUBLE ST. 01
TOUR 2		8 ⁰⁰	8 ⁰⁵	Clean up floor, Rig to Log
		8 ⁰⁵		Logging
TOUR 3		11 ⁰⁰	12 ⁰⁰	LOGGING

1971
TOUR
FT
3 35
3 00
3 68
7 03
0 97
0 00
OUR
FEET
FEET
FEET
HOURS
P.M. 12:00 P.M.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Double Tally out

S.M. 10373.02
 Board 10370.03
 D.I. 2.99 Correction made
 T.D. 10373
 Schlumberger T.D. 10374

Ran logs:

Dual Induction Laterolog Interval 10368 - 1200 2" 45" scales
 BHCGA-C Interval 10372 - 1200 2" 15" scales
 S.N.P. " 10373 - 8300 5"
 F.D.C. " 10373 - 8300 5" scale

CONDITION
REPORT
Gel.
Min. Gel
F.C.
ppm
ppm

DRD
Reading
1 1/8
1

8⁰⁰ AM - Circulation Conductor Bbl
 Ambient Temp 18°C Alcohol Returns +28°F

L. F. J. [Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**
 FIELD **Willcat** WELL NAME **LSD N.66 SEC 42 TWP W-137 Rge 20 W**

S.O.B.C.

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 2 MIDNIGHT **April 27 1971**

MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS 1 1/2 D.P.	NO 102	FT		NO 102	971235	FT	NO 102		FT
SINGLE D.P.	NO 1	968078	FT	NO 2	971235	FT	NO 2	971235	FT
X OVER SUB 7 O.D.		300	FT		300	FT		300	FT
OTHER O.D.			FT			FT			FT
DRILL COLLARS 7 O.D.	20	61368	FT		61368	FT		61368	FT
DRILL COLLARS O.D.	NO		FT	NO		FT	NO		FT
REAMER O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER O.D.	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		1029746	FT		1032903	FT		1032903	FT
KELLY DOWN (BELOW T.B.)		2150	FT		37	FT		4097	FT
DEPTH OF TOOLS		1031900	FT		1036603	FT		1037000	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR		10319	FEET		10366	FEET		10370	FEET
DEPTH START OF TOUR		10275	FEET		10319	FEET		10366	FEET
FOOTAGE DRILLED		44	FEET		47	FEET		4	FEET

TOUR 1
 Spersene
 Laurie

TOUR 2
 Spersene
 Laurie
 W.A.P.
 Lawide

TOUR 3

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	s.p.m. 62	p.s.i. 1800	62	1800	62	1800	62	1750	62	1750	62	1750
ROTARY SPEED	R.P.M.	60	60	60	60	60	60	60	60	60	60	60
WEIGHT ON BIT	M lbs	40	40	40	40	40	40	40	40	40	40	40
MUD WEIGHT	lb/gal	11.2	11.2	11.2	11.2	11.1	11.2	11.2	11.2	11.1	11.1	11.1
VISCOSITY	sec/qt	275	272	275	278	245	240	245	240	235	235	235
W.L.F.C.	c.c. 32nd	4.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
p.H.		10.0	10.2	10.2	10.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0
MUD LEVEL IN TANKS	Ft.-Ins.											

Finished
 Circulation
 Made 30
 4' fill

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT CONDITION
44	8 3/4	29239	X55R H.W.	3-4	45 1/2	10/18	10/20	250	5.5 Trip

Rig check
 Resources

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
					Time	6 PM	Alk	0.28
					Mud Wt.	11.1	10 Min Gel	35
					Visc	235	W.L.F.C.	5.0/2
					A.V.	116	p.H.	10.0
					P.V.	78	Soam	17
					Y.P.	76	CA ppm	50
							CL ppm	300

11:30 AM Ret
 Ambient

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. SKINNER	Ed KRAWCHUK	J. PETERSEN	Kind	Depth	Reading
DERRICKMAN	W. WASTAFF	LES WHITING	G. LANG	10/18	1718	
HELPER	M. LYONS	O. McCAIG	A. BENZ			
HELPER	C. CHASE	J. WANDLER	J. BRADY			
HELPER	I. KIEBER	J. JACOBSON	L. CULLETT			
FIREMAN						
TOOL PUSHER						

S.O.B.C Wm SHAEFFER CKY1⁰⁻²²

1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING (L) (T) WORK DONE
TOUR	FT	Kind	Amount			
		TOUR 1		12 ⁰⁰	12 ¹⁵	Set Rig & CHECK B.O.Ps
235	FT	Spersene	150 ^g	12 ¹⁵	8 ¹⁰	DRILLING
300	FT	Caustic	100 ^g			
368	FT					
		TOUR 2		8 ⁰⁰	10 ⁴⁵	DRILLING
	FT	Spersene	150 ^g	10 ⁴⁵	11 ⁰⁰	Rig SERV B.O.Ps MOTOR SHUT OFF
	FT	Caustic	100 ^g	11 ⁰⁰	4 ⁰⁰	DRILLING
	FT	CNC	100 ^g			
	FT	WATER				
903	FT	Biocide	20 ^g	4 ⁰⁰	4 ³⁰	DRILLING
097	FT			4 ³⁰	6 ⁴⁵	CIC PUMP TO DUMMY TRIP
000	FT	TOUR 3		6 ⁴⁵	8 ³⁰	HOIST 30 STDs
	FEET			8 ³⁰	9 ⁰⁰	Rig SERVICE (CHECK Rig & Bops FOR CONSERVATION BOARD)
6	FEET			9 ⁰⁰	10 ⁰⁰	RUN IN W/30 STDs
4	FEET			10 ⁰⁰	10 ¹⁵	BREAK PIC & CLEAN 4' TO BTM
	HOURS			10 ¹⁵	12 ⁰⁰	CIC & WORK PIPE TO LOG.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Finished - T. 12 10370
 Circulated up bottom hole sample 2 1/4 hrs
 Made 30 stand dummy trip
 4' fill on bottom

Rig checks by Engineers of Indian Affairs & Northern Resources - Anderson & Blue.

REPORT
 x. 028
 Gel 12
 Min. Gel 33
 LFC 5-1/2
 100
 17
 A. ppm 50
 L. ppm 500
 Reading 1718

11³⁰ Retriegeration Conductor Bbl
 Ambient Temp +14°F Alcohol Returns +29°F

Wm Shaeffler
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD Wilo Cat WELL NAME _____
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

CONTRACTOR G.P. RIG NO 15
 LSD N-66 SEC 42' TWP W-133 Rqr 20 W

S.O.B.C.

APRIL 26 1971

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR					
STANDS <u>4 1/2</u> D.P.	NO. <u>101</u>	<u>955416</u>	FT	NO. <u>101</u>		FT	NO. <u>101</u>		FT			
SINGLE D.P.	NO.		FT	NO. <u>1</u>	<u>958566</u>	FT	NO. <u>2</u>	<u>961752</u>	FT			
X OVER SUB <u>7</u> O.D.	<u>1</u>	<u>300</u>	FT		<u>300</u>	FT		<u>300</u>	FT			
OTHER O.D.			FT			FT			FT			
DRILL COLLARS <u>20</u> O.D.	<u>20</u>	<u>61368</u>	FT	<u>20</u>	<u>61368</u>	FT	<u>20</u>	<u>61368</u>	FT			
DRILL COLLARS O.D.	NO.		FT	NO.		FT	NO.		FT			
REAMER O.D.	KIND		FT	KIND		FT	KIND		FT			
STABILIZER O.D.	KIND		FT	KIND		FT	KIND		FT			
JARS O.D.	KIND		FT	KIND		FT	KIND		FT			
BUMPER SUB. O.D.	KIND		FT	KIND		FT	KIND		FT			
BIT OR CORE BARREL			FT			FT			FT			
TOTAL D.P. & TOOLS		<u>1017084</u>	FT		<u>1020234</u>	FT		<u>1023420</u>	FT			
KELLY DOWN (BELOW R.B.)		<u>3316</u>	FT		<u>33</u>	FT		<u>4100</u>	FT			
DEPTH OF TOOLS		<u>1020400</u>	FT		<u>1023534</u>	FT		<u>1027520</u>	FT			
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR					
DEPTH END OF TOUR		<u>10204</u>	FEET		<u>10235</u>	FEET		<u>10273</u>	FEET			
DEPTH START OF TOUR		<u>10163</u>	FEET		<u>10204</u>	FEET		<u>10233</u>	FEET			
FOOTAGE DRILLED		<u>41</u>	FEET		<u>31</u>	FEET		<u>40</u>	FEET			
DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	s.p.m. <u>62</u>	<u>62</u>	<u>62</u>	<u>62</u>	<u>61</u>	<u>61</u>	<u>61</u>	<u>61</u>	<u>61</u>	<u>61</u>	<u>61</u>	<u>61</u>
ROTARY SPEED	R.P.M. <u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
WEIGHT ON BIT	M. lbs. <u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>
MUD WEIGHT	lb/gal <u>11.2</u>	<u>11.2</u>	<u>11.2</u>	<u>11.2</u>	<u>11.2</u>	<u>11.2</u>	<u>11.3</u>	<u>11.3</u>	<u>11.3</u>	<u>11.3</u>	<u>11.3</u>	<u>11.3</u>
VISCOSITY	sec/qt <u>215</u>	<u>223</u>	<u>240</u>	<u>243</u>	<u>165</u>	<u>170</u>	<u>166</u>	<u>166</u>	<u>166</u>	<u>166</u>	<u>166</u>	<u>166</u>
W.L.F.C.	c.c. 32nd <u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>
p.H.	<u>10.0</u>	<u>10.3</u>	<u>10.3</u>	<u>10.2</u>	<u>10.0</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>
MUD LEVEL IN TANKS	Ft.-Ins.											

TOUR 1
 CAUSTIC 5
 SPERENE 2
 C.M.C. 10
 SANDUST 1/2
 INSULATE UNDER WALKS

TOUR 2
 Caustic 5
 Sperene 10
 C.M.C. 10
 Gel. 10
 WT 10

TOUR 3

Circula

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT. HR.	BIT CONDITION
<u>44</u>	<u>B34</u>	<u>29239</u>	<u>H.W. X55R</u>	<u>3.14</u>		<u>10118</u>	<u>10275</u>	<u>166</u>	<u>Running</u>

CORE No.	No.	DST No	FROM	TO	MUD ENGINEER'S REPORT		
TYPE		PREFLOW	mins. I.H.P.	p.s.i. I.F.P.	p.s.i. Time	A.M. PM	AK
FROM		I.S.I.	mins. F.H.P.	p.s.i. F.F.P.	p.s.i. Mud Wt		Int. Gel. (10 Min) Gel.
TO		V.O.	mins. I.S.I.P.	p.s.i. G.T.S.	mins. Visc		W.L.F.C.
Recovery		F.S.I.	mins. F.S.I.P.	p.s.i. F.T.S.	mins. A.V.		p.H.
HOURS		RECOVERY			mins. P.V.		Sand
					mins. Y.P.		CA. ppm CL. ppm

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<u>A. SKINNER</u>	<u>Ed KRAWCHOK</u>	<u>J. PETERSEN</u>	Kind	Depth	Reading
DERRICKMAN	<u>W. WAGSTAFF</u>	<u>LES WHITING</u>	<u>G. LONG</u>			<u>10118 1719</u>
HELPER	<u>M. LYONS</u>	<u>D. McCaughey</u>	<u>A. BEIRZ</u>			
HELPER	<u>C. CHASE</u>	<u>J. WANDLER</u>	<u>J. BRADARI</u>			
HELPER	<u>I. FIBBER</u>	<u>J. JACOBSON</u>	<u>L. COLLETT</u>			
FIREMAN						
TOOL PUSHER						

S.O.B.C. Wm. SHAEFFER CKYT # 0-22

MUD & CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE		
1971	Kind	Amount	From	To	
ON TOUR	TOUR 1		12 ⁰⁰	3 ¹⁵	DRILLING
	CAUSTIC	50 ⁰⁰	3 ¹⁵	3 ³⁰	SEN R.G. CHECK B.O.P.
7 52 FT	SPERENE	200 ⁰⁰	3 ¹⁵	3 ⁴⁵	DRILLING
3 00 FT	C.M.C.	100 ⁰⁰			
	SAND DUST	1/15 BAGS			
3 68 FT	INSULATE UNDER				
	WALKS				
	TOUR 2		8 ⁰⁰	9 ⁴⁵	DRILLING
	CAUSTIC	50 ⁰⁰	9 ⁴⁵	10 ⁰⁰	RIG SERV BOI P.S.
	SPERENE	100 ⁰⁰	10 ⁰⁰	1 ¹⁵	DRILLING
	C.M.C.	100 ⁰⁰	1 ¹⁵	3 ⁰⁰	CIRC. UT. SHAEFFER GEOLOGIST REQUEST
	YEL.	100 ⁰⁰	3 ⁰⁰	4 ⁰⁰	DRILLING
4 20 FT	WT	400 ⁰⁰			
1 00 FT					
5 20 FT	TOUR 3		4 ⁰⁰	5 ⁴⁵	DRILLING
TOUR			5 ⁴⁵	6 ⁰⁰	RIG SERVICE & BOYS
21 FEET			6 ⁰⁰	12 ⁰⁰	DRILLING
3 FEET					
0 FEET					
HOURS					
0 P.M.	12.00 P.M.				

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Circulated sample at 10:30

CONDITION

110g

REPORT

Gel
Min. Gel

L.F.C.

Reading

17/19

F.F. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**
 LSD **N-66°** SEC **42** TWP **W-137** R4R **20** W

SORE W...

FIELD **SW110CA-1**

WELL NAME

FOR 24 HOURS ENDING 12 MIDNIGHT **April 25** 1971

MU and CHEMICALS AT

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

Kind

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS 4 1/2 D P	NO 100	946	084 FT	NO 100			NO 100		
SINGLE D P	NO.		FT	NO 1	949246	FT	NO 2	952416	FT
X OVER SUB 7 O D			300 FT		300	FT		300	FT
OTHER O D			FT			FT			FT
DRILL COLLARS 7 O D	20	61368	FT		61360	FT		61368	FT
DRILL COLLARS O D	NO		FT	NO		FT	NO		FT
REAMER O D	KIND		FT	KIND		FT	KIND		FT
STABILIZER O D	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
RAMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		1007752	FT		1010999	FT		1014084	FT
KELLY DOWN (BELOW R.B.)		4100	FT		17	FT		2216	FT
DEPTH OF TOOLS		1011852	FT		1012604	FT		1016300	FT

TOUR 1
TOUR 2

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	10118 FEET	10126 FEET	10163 FEET
DEPTH START OF TOUR	10108 FEET	10118 FEET	10126 FEET
FOOTAGE DRILLED	10 FEET	6 FEET	37 FEET

TOUR 3

	HOURS						HOURS					
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP sp.m. p.s.i.	62											62
ROTARY SPEED R.P.M.	60						60	60	60	60	60	60
WEIGHT ON BIT M.lbs.	35						40	40	40	40	40	40
MUD WEIGHT lb.gal	11.1						11.2	11.2	11.2	11.2	11.2	11.2
VISCOSITY sec.qt	260						205	200	200	200	200	220
W.L.F.C. cc. 32nd												22
pH												11

BTFL
10118
10126

Trip at
 Pennington

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	HR	BIT CONDITION
43	8 3/4	912061	Security S-88	3/11	57	9684	10118	434	7.4	3-4-1
44	8 3/4	29239	H.W. 255A	3/14	8 3/4	10118	10163	43		IN

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT						
					PREFLOW	min	HP				
FROM		ISI	min	FHP	ps	F.P.P.	min	Time	AM	PM	AK
TO		VO	min	ISIP	ps	G.T.S.	min	Vis	Int. Gei	10 Min. Gei	
Recovery		FSI	min	FSIP	ps	F.T.S.	min	A.V.	W.C.		
HOURS		RECOVERY						P.V.			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	OILVIATION RECORD		
DRILLER	A S KINNER	Ed KRAWCHAK	J. PATERSON	Kind	Depth	Realt
MERRICKMAN	W. Wiggstaff	L. Whitling	G. Long	10118	9590	1718
HELPER	M. Blows	D. McCaughey	A. Benz	10118		1718
HELPER	C. Chase	J. Wandler	J. Graham			
HELPER	J. Lieber	Q. Jacobson	L. Collett			
IREMAN						
TOOL PUSHER	[Signature]					

SOPC WM SHAFFER CKY #0-22

1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount					
TOUR 1				12 ⁰⁰	1 ³⁵	DRILLING
				1 ⁴⁵	1 ⁰⁵	CIRC WORK PIPE
				1 ⁰⁵	2 ¹⁵	SURVEY
4	16			2 ¹⁵	7 ⁰⁰	HOIST
3	00			7 ⁰⁰	7 ¹⁵	CLOSE & OPEN BLIND RAM - SEA PIG
				7 ¹⁵	8 ⁰⁰	MAKE UP BITS RUN - O.P.S.
TOUR 2				8 ⁰⁰	8 ¹⁵	RIG SERU BOPS
				8 ¹⁵	9 ¹⁵	SLIP CO CUT 68 FT LINE
				9 ¹⁵		RUN IN BREAK GIRL 5000 @ 8100 CIRC
					2 ³⁰	CIRC LAST 3 SINGLE IN NO FILL
				2 ³⁰	4 ⁰⁰	DRILL
TOUR 3				4 ⁰⁰	8 ¹⁵	DRILLING
	BELL	10.00		8 ¹⁵	8 ³⁰	RIG SERVICE & BOPS
	WT MHT	75.00		8 ³⁰	9 ³⁰	HANG BLOCKS, CUT 425' BAD LINE
	WT T... ..			9 ³⁰	12 ⁰⁰	DRILLING

HOURS		CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES	
PM	12:00 P.M.		
	6 ³⁰		
	6 ⁰⁰		
	4 ⁰⁰		
	11 ⁰⁰		
	2 ²⁰		
	2		
	7 ³⁰		
CONDITION		-1	
S REPORT			
Gel			
Min Gel			
F.C.			
d			
ppm			
ppm			
ORD			
Reading			
	1/18		
	1/18		

Trip at 10117 to change bits - 5th stand pulled tight
 Ran in with bit # 44 - X55A-

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP** RIG NO **15**
 FIELD **Wildcat** WELL NAME **W-137** LSD **N-66** SEC **42** TWP **W-137** R4R **20** W

S.O.B.C.

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **APRIL 24** 1971

Kind
 TOL 1
SPEARME CAUSTIC
 TOL 2
Down side VALVE
 TOL 3
CAUSTIC SPEARME 5% WATER

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS 4 1/2 D.P.	NO 99	936581	FT	NO 94	942914	FT	NO 100	946084	FT
SINGLE D.P.	NO.		FT	NO 2		FT	NO		FT
X OVER SUB 7 O.D.		300	FT		300	FT		300	FT
OTHER O.D.			FT			FT			FT
DRILL COLLARS 7 O.D.	20	61368	FT	20	61360	FT	20	61368	FT
DRILL COLLARS O.D.	NO		FT	NO		FT	NO		FT
REAMER O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER O.D.	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		998249	FT		1004576	FT		1007752	FT
KELLY DOWN (BELOW R.B.)		215	FT		13	FT		3048	FT
DEPTH OF TOOLS		1000400	FT		1005876	FT		1010900	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR		10004	FEET		10058	FEET		10108	FEET
DEPTH START OF TOUR		9942	FEET		10004	FEET		10058	FEET
FOOTAGE DRILLED		62	FEET		0054	FEET		50	FEET

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	62	62	62	62	62	62	62	62	62	62	62	62
ROTARY SPEED	60	60	60	60	60	60	60	60	60	60	60	60
WEIGHT ON BIT	35	35	35	35	35	35	35	35	35	35	35	35
MUD WEIGHT	11.0	11.1	11.0	11.1	11.2	11.2	11.2	11.3				
VISCOSITY	265	240	240	245	215	240	270	305			25	21
W.L.F.C.	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2		4.2		4.2
p.H.	10.0	10.0	10.2	10.2	10.0	10.0	10.0	10.0				10.
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT CONDITION
45	8 3/4	912065	Security 5-88	3/16	55 3/4	7/6/74	10/109	424 7.6	Running

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT							
					PREFLOW	mins	F.H.P.	ps	F.P.P.	ps	Temp	AM

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	A. SKINNER	Ed KRAVICHUK	J. PETERSEN			
DERRICKMAN	W. WAGSTAFF	L. WHITING	G. LANG	Toto	9890	178
HELPER	M. LYONS	D. MCCOY	A. BENZ			
HELPER	C. CHASE	R. WANDLER	J. GRAHAM			
HELPER	J. FIELER	H. JACOBSON	L. CULLOT			
FIREMAN						
TOOL PUSHER						

Restriction 11 Pmi Amb

S.O.B.C. Wm SHAFER CKY 2-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971		ML and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	Kind	Amount				
84	TOUR 1			12 ⁰⁰	12 ⁰⁰	SET RIG CHECK IS SET DRILLING
00	SPEERONE CAUSTIC	100 ⁰⁰ 50 ⁰⁰		12 ⁰⁰	8 ⁰⁰	
68						
	TOUR 2			8 ⁰⁰	8 ⁴⁵	DRILLING RIG SERV PIPE RAMM DRILLING
	Dowicide	20 ⁰⁰		8 ⁴⁵	9 ¹⁵	
	VALON			9 ¹⁵	4 ⁰⁰	
52						
48						
00	TOUR 3			4 ⁰⁰	8 ³⁰	Drilling Rig Service & Bop. Drilling
	CAUSTIC	50 ⁰⁰		8 ³⁰	8 ⁴⁵	
	SPEERONE	100 ⁰⁰		8 ⁴⁵	12 ⁰⁰	
	OME	150 ⁰⁰				
	WATER					

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

60
35
10.

CONDITION

REPORT

Get
In Gel
F.C.
p.p.m
p.p.m

RD Reading
17/9 Retrievation Conductor B61
11⁰⁰ AM Ambient Temp 73.0°F Alcohol returns 73.2°F

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**
 FIELD **W110cat** WELL NAME **W110cat** LSD **N 66' SEC 42' TWP W-137 R. 20' W**

S O B C W
 MUD AND CHEMICALS A

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **April 23 1971**

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS D.P.	NO 97		FT	NO 97	985590	FT	NO 98		FT
SINGLE D.P.	NO 1	920731	FT	NO 2	923922	FT	NO 1	930269	FT
X OVER SUB 7 O.D.		300	FT		300	FT		300	FT
OTHER O.D.			FT			FT			FT
DRILL COLLARS 7 O.D.	20	61368	FT		61368	FT		61368	FT
DRILL COLLARS O.D.	NO.		FT	NO		FT	NO		FT
REAMER O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER O.D.	KIND		FT	KIND		FT	KIND		FT
JARS			FT			FT			FT
BUMPER SUB			FT			FT			FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		982429	FT		985590	FT		991937	FT
KELLY DOWN (BELOW R.B.)		4120	FT		41	FT		2263	FT
DEPTH OF TOOLS		986529	FT		989690	FT		994200	FT

TOU- 1
 TOU- 2
 Sperseno
 C.M.C.
 TOU- 3
 Sperseno
 C.M.C.
 W110cat

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	62 1850	62 1850	62 1800	62 1800	63 1750	63 1750	63 1750	63 1750	63 1700	63 1700	63 1700	63 1800
ROTARY SPEED	60	60	60	60					60	60	60	60
WEIGHT ON BIT	35		35	35			SURVIVAL		35	35	35	35
MUD WEIGHT	11.2	11.3	11.2	11.2	11.3	11.2	Dummy		11.2	11.2	11.2	11.2
VISCOSITY	257	257	270	268	200	290	KALP		300	380	400	380
W.L.F.C.	4.8	4.2	4.2	4.8					3.0	3.0	3.0	3.0
p.H.	10.2	10.2	10.2	10.2	10.2	10.2			10.0	10.0	10.0	10.0

30 sta.
 Druppe
 Recover
 5' fill
 mud
 1 inch

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	DEPTH	BIT CONDITION
43	8 3/4	912065	Security S-BB	3/14	3334	9684	9942	2587.9	Running.

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
TYPE		PREFLOW	mins. I.H.P.	ps. I.F.P.	ps. Time	API	API
FROM		ISI	mins. F.H.P.	ps. F.F.P.	ps. Mud Wt	10 Min. Sp.	
TO		VO	mins. I.S.P.	ps. G.T.S.	mins. Visc	W.F.F.C.	
Recovery		FSI	mins. F.S.P.	ps. F.T.S.	mins. A.V.	p.H.	
HOURS		RECOVERY			P.V.	Solid	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. SKINNER	Ed King	W. PETERSEN	Kind	Depth	Reas.
DERRICKMAN	W. WAGSTAD	L. White	G. LONG	Totlo	9690	2
HELPER	M. LYONS	W. H. Long	A. BENZ	Totlo	9890	1 1/8"
HELPER	C. CHASE	S. W. Long	J. GRAHAM			
HELPER	I. Fieber	J. Jackson	L. CULLETT			
FIREMAN						
TOOL PUSHER						

S O B C W M S H A E F F E R C K Y T - 0 - 2 2

1971		MATERIALS and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
IN TOUR	FT	Kind	Amount			
		TOUR 1		12 ¹⁵	3 ¹⁵	Drilling
2	69			3 ¹⁵	4 ¹⁵	Core sample
3	00			4 ¹⁵	8 ⁰⁰	Drilling
		TOUR 2		8 ⁰⁰	8 ¹⁵	Rig SERV Bar.
		Spersene	100 ⁰	8 ¹⁵	10 ⁰⁰	DRILLING
		Causric	-	10 ⁰⁰	10 ³⁰	SERV KELLY HOSE UNION
		CMC	50 ⁰	10 ³⁰	1 ⁰⁰	DRILLING
				1 ⁰⁰	1 ³⁰	CORE TO SURVEY AND 30 STD DUNNY TRIP
				1 ³⁰	2 ⁰⁰	SURVEY @ 9890
9	37			2 ⁰⁰	3 ⁴⁵	HOIST 30 STD
2	63			3 ⁴⁵	4 ⁰⁰	RUN IN SANDLINE TO RECOVER SURVEY
2	00			4 ⁰⁰	4 ³⁰	RECOVER SURVEY BOT, SERVICE RIG
		TOUR 3		4 ³⁰	5 ⁴⁵	RUN IN W/PIPE
		Spersene	100 ^H	5 ⁴⁵	6 ⁰⁰	BREAK O/C, CLEAN 5' TO BOT
		CMC	50 ^H	6 ⁰⁰	11 ⁴⁵	Drilling.
		W/100	10 bbls	11 ⁴⁵	12 ⁰⁰	Bot Drill

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

30 stand dummy trip at 9896
 Dropped survey
 Recovered after pulling 30 stands
 5' fill in bottom - no bridges or tight spots.

mud viscosity very high - no apparent reason - adding
 1 inch stream of water.

CONDITION

REPORT

Get
Min Get

F.C.

d
ppm
ppm

ORD Reading

2
1 1/8

L. F. Gumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**
 LSD **N-66** SEC **42** TWP **W137** Rge **20** W

Page **W**

FIELD **W1021** WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **April 22 1971**

MILITARY CHEMICALS A
 Kind

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO 95		FT	NO 96		FT	NO 97	917772	FT
SINGLE .. D.P.	NO. 2	905141	FT	NO. 1	911445	FT	NO		FT
X OVER SUB 7 O.D.		300	FT		300	FT		300	FT
OTHER .. O.D.			FT			FT			FT
DRILL COLLARS .. 7 O.D.	20	61368	FT	20	61368	FT	20	61368	FT
DRILL COLLARS .. O.D.	NO.		FT	NO		FT	NO		FT
REAMER .. O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER .. O.D.	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL		966819	FT		973113	FT			FT
TOTAL D.P. & TOOLS		1581	FT		10	FT		979440	FT
KELLY DOWN (BELOW R.B.)			FT		974113	FT		1160	FT
DEPTH OF TOOLS		968400	FT			FT		980600	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			FEET		9741	FEET		9806	FEET
DEPTH START OF TOUR		9684	FEET		9684	FEET		9741	FEET
FOOTAGE DRILLED			FEET		57	FEET		65	FEET

TOUR 1

TOUR 2
 Caustic
 Sparsene

TOUR 3
 W.M.
 P.

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP s.p.m. p.s.i.						6300	6300	6300	6300	6300	6300	6300
ROTARY SPEED R.P.M.			60	60	60	60	60	60	60	60	60	60
WEIGHT ON BIT M lbs.			10-15	35	35	35	35	35	35	35	35	35
MUD WEIGHT lb/gal				11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
VISCOSITY sec qt				420	345	350	350	350	350	350	350	350
W.L.F.C. c.c./32nd				4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
p.H.				10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
MUD LEVEL IN TANKS Ft.-Ins.												

Tally out

Tripped on bit

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
43	8 3/4	912065	SECURITY-588	3-14	15 1/2	9684	9806	122	Running.

CORE No.	No.	CST No.	FROM	TO	MUD ENGINEER'S REPORT							
					Time	API	API	API				
TYPE			PREFLOW	mins	FHP	p.s.i.	F.P.P.	p.s.i.	Time	API	API	API
FROM			ISI	mins	FHP	p.s.i.	F.P.P.	p.s.i.	Mud Wt	Int. Ge.	10 Min. Ge.	
TO			VO.	mins	ISIP	p.s.i.	G.T.S.	mins	Vis	W.L.F.C.		
Recovery			F.S.I.	mins	F.S.I.P	p.s.i.	F.T.S.	mins	A.V	p.H.		
HOURS			RECOVERY						P.V	Spud		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Y.P.	DEVIATION RECORD		
DRILLER	H. SKINNON	Ed KRAWCHUK	J. PEDERSEN		Kind	Depth	Reading
DERRICKMAN	W. WADSTAFF	BES WHITING	G. LONG		file	9680	2'
HELPER	M. LYONS	D. McCAVIL	A. BENZ				
HELPER	C. CHASE	J. WOODRUFF	J. GRADHALL				
HELPER	I. KIBER	J. JACOBSON	L. CULBERT				
FIREMAN							
TOOL PUSHER							

Refrigerator
 11:30 am Amb

P.O.B.C. Wm SHEFFER CRK # 0-22

1971		MATERIALS AND CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE		
IN TOUR	FT.	Kind	Amount	From	To		
		TOUR 1					
7	72			12 ⁰⁰	2 ¹⁵	Hoist Double deadlift out Sen Rig, Close + Open Blind Rams Check Rig, Service Kelly Cock Run in BREAK Line @ 500 + 3200 Line Line had 3 singles in - Crown 15' to Bottom.	
	FT.			2 ¹⁵			
3	00			3 ¹⁵	3 ¹⁵		
	FT.				8 ¹⁰		
3	68						
	FT.						
	FT.						
	FT.						
	FT.						
4	40			8 ⁰⁰	11 ¹⁵	DRILLING BIG SERV. BOP's DRILLING.	
	FT.	Caustic	100	11 ¹⁵	11 ³⁰		
	FT.	Sparsene	100	11 ³⁰	4 ⁰⁰		
	FT.						
4	40						
	FT.						
1	60						
	FT.						
6	00			4 ⁰⁰	7 ³⁰	Drilling Rig Service ✓ Bops Drilling.	
TOUR		WT MAT	73.00	7 ³⁰	7 ⁴⁵		
6	FEET		1.75	7 ⁴⁵	12 ⁰⁰		
1	FEET		1.00				
5	FEET	Q 546	1.00				
	HOURS						
	12 00 P.M.						

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

0	60	Tally out	SBM	9711.01	
	35		Board	9709.09	
			D.H.	1.92	-No Corr ⁿ made

Tripped in bit # 43 at 9684 - 15' of fill on bottom.

CONDITION	ING.	S REPORT	Get	Min Get	F.C.	Reading

2
Retrievation Conductor 661
11¹⁵ AM Ambient Temp + 26°F Alcohol Returns + 31°F

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**
 FIELD **W110CAH** WELL NAME **LSDN-66 SEC 42 TWP W137 Rge 20 W**

S.P.C. Wm

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **April 21** 1971

MATERIALS and CHEMICALS A Kind

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO. 94			FT	NO. 95	898873		FT	NO. 95			FT
SINGLE	D.P.	NO. 2	895823		FT	NO.			FT	NO. 2	905141		FT
X-OVER SUB	7 O.D.		300		FT		300		FT		300		FT
OTHER	O.D.				FT				FT				FT
DRILL COLLARS	7 O.D.	20	61368		FT	20	61368		FT		61368		FT
DRILL COLLARS	O.D.	NO.			FT	NO.			FT	NO.			FT
REAMER	O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER	O.D.	KIND			FT	KIND			FT	KIND			FT
JARS		KIND			FT	KIND			FT	KIND			FT
BUMPER SUB		KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D.P. & TOOLS			957491		FT		950841		FT		966819		FT
KELLY DOWN (BELOW R.B.)			2109		FT		41		FT		1581		FT
DEPTH OF TOOLS			959600		FT		964641		FT		968400		FT
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR			9596		FEET		9646		FEET		9684		FEET
DEPTH START OF TOUR			9552		FEET		9596		FEET		9646		FEET
FOOTAGE DRILLED			44		FEET		50		FEET		38		FEET

TOUR 1
TOUR 2
CAUSTIC
SPRANGUE
WATER
TOUR 3
CAUSTIC
SPRANGUE
WATER

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	sp.m ps.i	63 1700	63 1500	63 1700	63 1700	62 1700	62 1700	62 1700	62 1700	62 1700	62 1700	62 1700
ROTARY SPEED	R.P.M.	60	60	60	60	60	60	60	60	60	60	60
WEIGHT ON BIT	M lbs.	35	35	35	35	35	35	35	35	35	35	35
MUD WEIGHT	lb/gal	11.2	11.2	11.2	11.2	11.2	11.3	11.2	11.2	11.2	11.2	11.2
VISCOSITY	sec qt	240	238	242	290	370	245	225	225	234	225	234
W.L.F.C	c.c. 32nd	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
p.H.		10.0	10.0	10.2	10.2	10.3	10.2	10.2	10.2	10.2	10.2	10.2
MUD LEVEL IN TANKS	Ft. ins											

12'
Triya

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	HR	BIT CONDITION
42	B^{3/4}	343066A	Secordy S-88	3-14	52 1/2	9280	9684	404	7.7	5-1-1

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
					Time	AM	Ark	0.4	
TYPE		PREFLOW	mins.	I.H.P.	ps.i	F.P.P.	ps.i	Mud Wt	11.2
FROM		ISI	mins.	F.H.P.	ps.i	F.P.P.	ps.i	10 Min Gels	20
TO		V.O.	mins.	I.S.I.P.	ps.i	G.T.S.	mins.	Visc	215
Recovery		F.S.I.	mins.	F.S.I.P.	ps.i	F.T.S.	mins.	A.V.	130
HOURS		RECOVERY						P.V.	80
								Y.P.	100

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	H. SKINNOR	Ed KRAWCHUK	J. Petersen	Kind	Depth	Reading
DERRICKMAN	W. WAGSTAFF	LES WHITING	G. Long	foto	9550	2°
HELPER	M. LYONS	D. McVOIR	A. Benz			
HELPER	C. CHASE	J. WARDLER	J. CLAMM			
HELPER	I. FIEBER	J. JACOBSON				
FIREMAN						
FOOT PUSHER						

12'
Triya
Ru
Amber

S.O.B.C. Wm SHAEFFER CK47 022

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971
TOUR
141 FT
300 FT
68 FT
819 FT
581 FT
400 FT
HOURS
12:00 P.M.

MATERIALS and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	12 ¹⁵	HOIST
		12 ¹⁵	1 ⁰⁰	RECOVER SURVEY PAPER
		1 ⁰⁰	1 ¹⁵	SET RIG + BOPs
		1 ¹⁵	2 ⁰⁰	RUN IN
		2 ⁰⁰	2 ³⁵	BREAK CIRC CLEAN 12' to Bottom
		2 ³⁵	8 ⁰⁰	Drilling
TOUR 2		8 ⁰⁰	9 ¹⁵	DRILLING
CAUSTIC	50"	9 ¹⁵	9 ³⁰	RIG SERV. RIG
Spermac	200"	9 ³⁰	10 ⁴⁵	REPAIR GATE VALVE ON STAND PIPE
Water	150 lbs	10 ⁴⁵	4 ⁰⁰	DRILLING
TOUR 3		4 ⁰⁰	8 ⁴⁵	Drilling
CAUSTIC	50"	8 ⁴⁵	9 ¹⁵	SURVEY, SERVICE RIG
Spermac	200"	9 ¹⁵	12 ⁰⁰	HOIST, DOUBLE MEASURE OUT
Water	150 lbs			

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

12' fill on bottom of dummy trip

Trip for bit at 9684

CONDITION

REPORT

0.4
Gel 11
Min. Gel 20
F.C. 5.1/2
9.2
17
p.p.m. 250

DRD Reading

2°
Refrigeration Conduces 6/61 - 8⁰⁰ AM
Ambient Temp +16°F Alcohol Returns +21°F

W. F. J. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRILLING** RIG NO **15**
 LSD **N66** SEC **42** TWP **N37** Rpt **20** W

FIELD **WILD CAT** WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **APRIL 20 1971**

JOBC CHEMICALS ADD Kind

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR							
STANDS	D.P.	NO 13	2	00	26	FT	NO 13	5		FT	NO 94	88	95	14	FT
SINGLE	D.P.	NO.				FT	NO 2	88	73	77	NO				FT
X-OVER SUB	7 O.D.	1			300	FT			300	FT			300	FT	
OTHER	O.D.					FT				FT				FT	
DRILL COLLARS	7 O.D.	20			613	68	FT		613	68	FT		613	68	FT
DRILL COLLARS	O.D.	NO.				FT	NO			FT	NO			FT	
REAMER	O.D.	KIND				FT	KIND			FT	KIND			FT	
STABILIZER	O.D.	KIND				FT	KIND			FT	KIND			FT	
JARS		KIND				FT	KIND			FT	KIND			FT	
BUMPER SUB		KIND				FT	KIND			FT	KIND			FT	
BIT OR CORE BARREL						FT				FT				FT	
TOTAL D.P. & TOOLS					7417	04	FT		9490	45	FT		9511	82	FT
KELLY DOWN (BELOW R.B.)					29	96	FT		19	55	FT		41		FT
DEPTH OF TOOLS					9447	00	FT		9509	00	FT		9552	82	FT
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR							
DEPTH END OF TOUR			9447	FEET		9509	FEET		9552	FEET					
DEPTH START OF TOUR			9387	FEET		9447	FEET		9509	FEET					
FOOTAGE DRILLED			60	FEET		62	FEET		43	FEET					

TOUR	Kind	AP
TOUR 1		
TOUR 2	Caustic	10
	Spokane	15
	Water	15

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	SPM	60	60	60	60	60	60	60	60	60	60	60
ROTARY SPEED	R.P.M.	60	60	60	60	60	60	60	60	60	60	60
WEIGHT ON BIT	M. lbs.	35	35	35	35	35	35	35	35	35	35	35
MUD WEIGHT	lb. gal.	11.1	11.2	11.2	11.2	11.1	11.2	11.2	11.2	11.2	11.2	11.2
VISCOSITY	sec. qt.	2.2	2.2	2.2	2.54	2.25	2.21	2.40	2.43	2.50	2.50	2.50
W.L.F.C.	cc. 32nd	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
p.H.		10.2	10.2	10.2	10.2	10.0	10.3	10.3	10.3	10.3	10.3	10.3

20 stands starting

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
42	8 7/8	343066R	Sinc 588	3/14	36 1/4	7200	9552	272	in

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					PS. Time	8	Min	0.15
					PS. Mud Wt	11.2	lb. Min	30
					mins. Visc	250	W.L.F.C.	4.12
					mins. A.V	139	p.H.	10.0
					PS. F.V	83	Sec. qt.	16
					PS. 111	CA ppm	400	

Refrigeration 11 PM Ambient

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION REQUIRED
DRILLER	A CHAMBERS	A SKINNER	ED BRAUCHUK	Kind Depth Reading
DERRICKMAN	W DIMIRKO	W WAGSTAFF	LES WHITING	7775 2 1/2
HELPER	B HUBER	M LYONS	D McLaughlin	9550 2.0
HELPER	S FOSTO	C CHASE	J WARDLER	
HELPER	T McCouly	J FIEDER	J JACOBSON	
FIREMAN				
TOOL PUSHER				

SOBC ON SHASSOR CKYT # 022.

1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	Kind	Amount				
514	TOUR 1		12 ¹⁰	12 ²⁰		DRILLING.
			12 ³⁰	12 ⁴⁵		RIG DOWN + BOYS
			12 ⁴⁵	8 ⁴⁰		DRILLING.
300						
369						
	TOUR 2		8 ⁰⁰	9 ¹¹		DRILLING
	CRUSTIC	100 #	9 ¹¹			SET BY POWER 3-16 RIG DOWN GROWN IN 10
	SPEARNE	150 #		9 ¹⁰		BRAKE PUS
	WATER	15 BBLs	9 ³⁰	4 ⁰		DRILLING
182						
282	TOUR 3		4 ⁰⁰	5 ⁴⁵		DRILLING
			5 ⁴⁵	6 ⁰⁰		RIG SEARU BOYS
			6 ⁰⁰	9 ³⁰		DRILLING
			9 ³⁰	10 ⁰⁰		GIVE TO SURVEY AND 20 STD DUNNY TRIP
			10 ⁰⁰	10 ³⁰		SURVEY @ 9550
			10 ³⁰	12 ⁰⁰		HOBIT 20 STD

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

20 stand dummy trip at 9552 - dropped survey before starting trip - first 3 stands tight, 15th stand tight.

REPORT

0.15
 Gel 20
 Min Gel 30
 F.C. 4 1/2
 10.0
 16
 400

Refrigeration Conductor 661

11 PM Ambient Temp 29°F. Alcohol returns 38°F

ORD

Reading

2 1/2
 2°

L. F. [Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *WILDCAT* WELL NAME

CONTRACTOR *G.P. DRAG* RIG NO *15*
 LSD *N66°* SEC *42'* TWP *N137'* Rge *20'* W

508C

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT *APRIL 19 1971*

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO <i>91</i>		NO <i>92</i> <i>870550</i> FT	NO <i>92</i> <i>874024</i> FT
SINGLE D.P. NO <i>1</i>	<i>064249</i> FT		
X-OVER SUB <i>7'</i> O.D.	<i>300</i> FT	<i>300</i> FT	<i>300</i> FT
OTHER O.D.			
DRILL COLLARS O.D.			
DRILL COLLARS <i>7'</i> O.D. NO <i>20</i>	<i>61368</i> FT	NO <i>61368</i> FT	NO <i>61368</i> FT
REAMER O.D. KIND			
STABILIZER O.D. KIND			
JARS KIND			
BUMPER SUB KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	<i>925917</i> FT	<i>932239</i> FT	<i>935692</i> FT
KELLY DOWN (BELOW R.B.)	<i>2085</i> FT	<i>961</i> FT	<i>31</i> FT
DEPTH OF TOOLS	<i>928000</i> FT	<i>933200</i> FT	<i>938742</i> FT

MICRO-CHEMICALS AD

TOUR	Kind
TOUR 1	
TOUR 2	<i>GEL 900"</i> <i>CHLORIDE-100"</i> <i>SPECIENE-100"</i>
TOUR 3	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		<i>9332</i> FEET	<i>9387</i> FEET
DEPTH START OF TOUR	<i>9280</i> FEET	<i>9280</i> FEET	<i>9332</i> FEET
FOOTAGE DRILLED		<i>52</i> FEET	<i>55</i> FEET

Caustic
Spacers
Brine
CMC
Water

	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP S.P.M. P.S.I.			<i>160</i>	<i>63</i>	<i>160</i>	<i>63</i>	<i>160</i>	<i>63</i>			<i>160</i>	<i>63</i>
ROTARY SPEED R.P.M.			<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>60</i>
WEIGHT ON BIT M.lbs.			<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>
MUD WEIGHT lb/gal			<i>11.1</i>	<i>11.2</i>	<i>11.1</i>	<i>11.0</i>	<i>11.0</i>	<i>11.0</i>	<i>11.0</i>	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>
VISCOSITY sec/qt			<i>295</i>	<i>279</i>	<i>185</i>	<i>190</i>	<i>194</i>	<i>200</i>	<i>220</i>	<i>215</i>	<i>310</i>	
W.L.F.C. c.c. 32nd					<i>4.6</i>	<i>4.6</i>	<i>4.6</i>					
p.H.					<i>10.0</i>	<i>10.1</i>	<i>10.3</i>					
MUD LEVEL IN TANKS Ft.-Ins												

Layer 10 Down
CHANGED SIGHT

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	BIT CONDITION
<i>42</i>	<i>8 3/4</i>	<i>34336R</i>	<i>SHE S88</i>	<i>3/14</i>	<i>15 1/2</i>	<i>9280</i>		<i>IN</i>
<i>12</i>	<i>8 3/4</i>	<i>343366R</i>						

BIT # 42 - out whole point.

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
					AM	PM	AK	
TYPE		PREFLOW	mins. IHP	p.s.i. IEP	p.s.i. Time			
FROM		I.S.I.	mins. FHP	p.s.i. FEP	p.s.i. Mud Wt			
TO		V.O.	mins. I.S.I.P.	p.s.i. G.T.S.	mins. Visc			
Recovery		F.S.I.	mins. F.S.I.P.	p.s.i. F.T.S.	mins. A.V.			
HOURS		RECOVERY			P.V.			

4 bit test

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>A CHAMBERS</i>	<i>H [Signature]</i>	<i>Ed KRAWCHUK</i>	Kind	Depth	Reading
DERRICKMAN	<i>W DUBNIKO</i>	<i>W [Signature]</i>	<i>LBS WHITING</i>	<i>1000</i>	<i>9775</i>	<i>2 1/2</i>
HELPER	<i>G HABIB</i>	<i>W [Signature]</i>	<i>O [Signature]</i>			
ER	<i>S FRATO</i>	<i>C [Signature]</i>	<i>I WANDLER</i>			
	<i>T [Signature]</i>	<i>I [Signature]</i>	<i>G JACOBSON</i>			

Refrigeration 9:30 am Amb

SOBC WIN SNARBER, CKJ7 4-22

1971		MID and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL
N TOUR		Kind	Amount			WORK DONE
0	24	FT		12 ⁰⁰	1 ³⁰	FINISH HOISTING
		FT		1 ²⁰	1 ⁴⁵	PICK UP 30' PS, BLIND RAMS.
3	00	FT		1 ⁴⁵	2 ⁰⁰	CHINA CUT JUNK SUB.
		FT		2 ⁰⁰	2 ¹⁵	PICK UP BOTTOM HOLE D/COLLAR.
		FT		2 ¹⁵	2 ⁴⁵	RUN IN D/COLLARS
		FT		2 ⁴⁵	3 ¹⁵	SHIP + CUT D/LWR.
		FT		3 ²⁰	7 ¹⁵	RUN IN BRK CIRE @ 5000' + 8000'
3	68	FT		7 ²⁰	8 ¹⁰	CHINA 90' TO BOTTOM. (30' 1-11/16)
		FT		8 ¹⁰	10 ¹⁰	DRILLING
		FT	GEL 900 ⁰⁰	10 ¹⁵	10 ⁴⁵	SEA RIG CHECK BOIS PIG SEVEN CEMENTS
		FT	CAUSTIC-100 ⁰⁰	10 ⁴⁵	4 ⁰⁰	DRILLING
		FT	SPECIENE-100 ⁰⁰			
6	92	FT				
7	42	FT		4 ¹⁰	8 ⁰⁰	DRILLING
		FEET	Caustic 2100 ⁰⁰	8 ⁰⁰	8 ¹⁵	RIG SERV BOIS
		FEET	Spacers 50 ⁰⁰	8 ¹⁵	12 ⁰⁰	DRILLING
		FEET	Brace 20 ⁰⁰			
		FEET	C.M.C. 15 ⁰⁰			
		HOURS	WATER 25466			

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

0	60	Layrid Down	Junk Sub	3.40	Pick up	34.78
	35		SINGL	31.58	DIFF -	<u>31.65</u>
	11.2			34.98		<u>3.33 + 12. 3.55 diff.</u>
	310	CHINA 90' TO BOTTOM	DIFF - .22	KIRKBY LENGTH	41.22	<u>- .22</u>
						41.00.

Bit # 42 - rerun bit # 24 which had nozzle seat washed out while cleaning to bottom and was tripped out at that point.

4 bit teeth found in junk sub.

2 1/2

Refrigeration Conductor 661
 9:50 AM Ambient Temp +20°F Alcohol Returns +26°F

Le F. Grumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. D'ALB** RIG NO. **15**
 LSD **N 40° SEC 42' TWP 137'** R30 120 W

FIELD **WILDCAT** WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **11 APR 18 1971**

203C
 MURPHY CHEMICALS ADD

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO 70			FT	NO 91			FT	NO 111			FT
SINGLE	D.P.	NO 2	857	894	FT	NO 1	864	229	FT	NO 2	867	898	FT
CROSS OVER SUB	7' O.D.				300 FT				300 FT				300 FT
OTHER <i>STANK SUBS</i>	O.D.				340 FT				340 FT				340 FT
DRILL COLLARS	O.D.				FT				FT				FT
DRILL COLLARS	7' O.D.	NO 19	582	12	FT	NO	582	12	FT	NO	582	12	FT
REAMER	O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER	O.D.	KIND			FT	KIND			FT	KIND			FT
WARS		KIND			FT	KIND			FT	KIND			FT
BUMPER SUB		KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D.P. & TOOLS			9167	46	FT		9230	81	FT		9262	50	FT
KELLY DOWN BELOW R.B.			22	4	FT		16	9	FT		18		FT
DEPTH OF TOOLS			9190	50	FT		9249	60	FT		9280	50	FT

TOUR
Ca.
Edwards
SPRESSONE
with 122

TOUR
160 B.W. DASH
RESTOR INSULA
TRUCK

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	HOURS	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	HOURS	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	HOURS
	9190	9150	40		9249	9190	59		9280	9247	33	

TOUR
SADUCT

NO.	SIZE	SERIAL	BIT KIND AND TYPE	ET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS
41	1 1/4	21380	SIC. 0144W	4 1/2	18 1/2	1150	9280	130 5-4-1
			Remaining	4 1/4				

Insulated
 Trip at

NO.	TYPE	FROM	TO	REMARKS
	PREFLOW			8 0.25
	EST			11.2 1/2
	V.O			235 4.0/2
	FS			135 10.0
	RECOVERY			83 14

NAMES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
1	A CHAMBERS	A [unclear]	E KRIVICHUK
2	W DIENIEKO	M [unclear]	LES WHITING
3	G HUBER	M [unclear]	D MCGUAG
4	J FLATO	C [unclear]	J WARDLER
5	T McEneaney	J Fielder	G JACOBSON

James [unclear]

203C W/M SHAFFER CRT 11 222.

1971		MATERIALS CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	FT	Kind	Amount			
		TOUR :		12 ⁵⁵	12 ⁴⁵	PREPARING BIT HOLE.
				12 ⁵⁵	1 ⁴⁵	BIG SURV
398	FT	Gas	1600#	1 ⁵⁵	1 ⁵⁵	PREPARING BIT HOLE.
300	FT	CEMENT	100#	1 ⁵⁵	1 ⁵⁵	WORK UNDER SUB.
340	FT	SPESSANE	65"	1 ⁵⁵	8 ⁰⁰	DRILLING.
		Water	2000L			
212	FT					
		TOUR :		8 ⁰⁰	10 ³⁰	DRILLING
		100 SAW DUST		10 ¹⁰	10 ¹⁰	SEA RIG CHECK BOB RIG SURVYS GRAB
		ROOF INSULA		10 ¹⁰	4 ¹⁰	DRILLING
		TRUSS				
		TR				
250	FT					
050	FT					
		TOUR :		4 ⁰⁰	7 ¹⁰	DRILLING
				7 ¹⁵	7 ³⁰	BIG SURV BOB'S
0	FEET	SADUCT	45 SAK	7 ³⁰	8 ⁴⁵	DRILL
7	FEET			8 ⁴⁵	9 ⁰⁰	SURVY @ 9275
3	FEET			9 ⁰⁰	12 ⁰⁰	HOIST BIT 1741

CEMENTING TESTING FISHING SPECIAL OR DETAILS INCLUDING ENGINEERING SUMMARIES

Insulated under sub with 205 sak sawdust

Trip at 9290 to change bit

NOTION

0.1

REPORT

0.25
 G.P. 1.0
 M.P. 4.2
 4.0/2
 10.0
 1.8
 P.P.T. 7.5
 P.P.M. 4.0

RD

Reading

1/3

L. J. Gumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRUG** RIG NO **15**
 LSD **N66'** SEC **42'** TWP **W137'** R₁₀₀ **20'** W

FIELD **WILDECAT** WELL NAME

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

APRIL 17 1971

508C

MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS D.P.	NO 59	6420 54 FT	NO 89		NO 90	8557 87 FT
SINGLE D.P.	NO		NO 1	848 260 FT	NO	
X OVER SUB 7' O.D.		300 FT		300 FT		300 FT
OTHER X.O. O.D.		87 FT				
DRILL COLLARS 9' O.D.	20	613 68 FT	19	582 12 FT	19	582 12 FT
DRILL COLLARS O.D.	NO		NO		NO	
REAMER O.D.	KIND		KIND		KIND	
STABILIZER O.D.	KIND		KIND		KIND	
JARS	KIND	720 FT	KIND		KIND	340 FT
DOWNER SUB	KIND		KIND	340 FT	KIND	
BIT OR CORE BARREL		6458 FT				
TOTAL D.P. & TOOLS		9109 87 FT		9071 12 FT		9105 17 FT
KELLY DOWN (BELOW R.B.)		4013 FT		1885 FT		2922 FT
DEPTH OF TOOLS		9050 00 FT	<i>total</i>	9090 00 FT		9134 39 FT
TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		9150 FEET				
DEPTH START OF TOUR		9090 FEET		9150 FEET		9090 FEET
FOOTAGE DRILLED		60 FEET				

TOUR
Caustic
Sperse
Gal

TOUR 1
Caustic
Sperse
Gal
Water

TOUR 2
Cove #4
Run in

TOUR 3
2 man man

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP S.P.M. P.S.I.	52 1700	53 1700	52 1700									
ROTARY SPEED R.P.M.	80	80	80					100	110	110		
WEIGHT ON BIT M.lbs.	10	12	12						10-12	10-12		
MUD WEIGHT lb.gal	112	112	112					101	107			
VISCOSITY sec.qt	225	215	195						225			
W.L.F.C. cc. 32nd			4 1/2									
p.H.	9.0	9.0							1.0			
MUD LEVEL IN TANKS Ft. Ins.												

I.O.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	DEPTH	BIT CONDITION
40	6 1/16	71A-32	WAST DRIL	—	7 1/4	9090	9150	60	8.2 Fair
41	8 3/4	270980	Security m44N	2 1/4 - 1/16					

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins	F.H.P.	OS	F.P.P.	mins	AV
FROM		ISI	mins	F.H.P.	OS	F.P.P.	mins	AV
TO		VO	mins	F.H.P.	OS	F.P.P.	mins	AV
Recovery		F.S.I.	mins	F.S.P.	OS	F.P.P.	mins	AV
HOURS		RECOVERY						

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	TYPE
DRILLER	H CHAMBERS	H SKINNER	E KRAWCHUK	
DERRICKMAN	W DANIELKO	W MAGUIRE	L WHITING	total 9090 1120
HELPER	G HAZIBER	H HAZIBER	D MICHIG	
HELPER	J FRATO	C HAZIBER	J WANDLER	
HELPER	T McEnulty	I HAZIBER	G JACOBSON	
FOREMAN	James [Signature]			

Re-temperature
 2 am
 7 am

SOBC W.M. SHAEFER CRUIT 0-22

OTHER HOURLY OPERATING DETAIL WORK DONE

MUD & CHEMICALS ADDED			From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	Kind	Amount			
ON TOUR	TOUR		12 ⁰⁰	12 ²⁰	CROWN BIT TO BOTTOM CUTTING CORL #4 CONSTRUCTION
7 87	Caustic	150 [#]	12 ³⁰	4 ²⁵	
3 00	Sperse	150 [#]	4 ²⁵	4 ²⁰	
	Gal	2500 [#]	4 ³⁰	8 ²⁰	CUTTING CORL #4
2 12					
3 40	TOUR 2		8 ²⁰	12 ¹⁰	HOLD 3/4" KEY BREAK DOWN CORE BBL - JAW HANDLE + BOX CORL SENSIT CONSTRUCTION - DETAILIC LAY DOWN Bottom Hole Collar MAKE 8 TURN SUB. SEN RIG SURF 2... R9 TAVOIA CARON MUD WELL - hole RUN IN TO 5000 CIRC RUN INTO 8220 CIRC RUN INTO 8990 CIRC CLEAN TO TOP OF RAT HOLE 3 SINGLE BEARING RAT HOLE TO 8 3/4 RIG SETU 8015 BEARING
			12 ¹⁰		
			1 ⁰⁰	1 ⁰⁰	
			2 ¹⁵	2 ⁰⁰	
5 17			2 ⁰⁰	2 ⁰⁰	
4 22			2 ⁰⁰	3 ⁰⁰	
4 39			3 ⁰⁰	4 ⁰⁰	
TOUR	Caustic	50 [#]	4 ⁰⁰		
	Sperse	25 [#]			
70	M/L	1000 [#]	8 ⁴⁵	9 ⁴⁵	
	Water	15 bbls	10 ⁰⁰	10 ¹⁵	
			10 ¹⁵	12 ⁰⁰	

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

10 110

12 10-12

17

25

0

CONDITION

Run in w/bit #41 to ream rat holes & drill ahead.

2 man man of Tour work to be in 5 hrs upline - Transfer mud

REPORT

Temp

11/2

Refrigeration Condenser Bbl

2 am Ambient Temp +18° Alcohol returns +28°F

7 am " " 0° " " +20°F

Signature: [Handwritten Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **WILDCENT.** WELL NAME _____
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

CONTRACTOR **P.O. DRAG** RIG NO **15**
 LSD **233°** SEC **42'** TWP **4137'** Rpt **20'** W

2091 16 1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR						
STANDS	DP	NO 2			FT	NO 89			FT	NO 8			FT			
SINGLE	DP	NO 1	64	53	44	FT	NO 1	84	53	44	FT	NO 7	83	40	65	FT
CROSS OVER SUB	T O D				200	FT				300	FT				300	FT
OTHER	O D					FT				Sub					87	FT
DRILL COLLARS	O D	20			613	68	FT			20			613	68	FT	
DRILL COLLARS	O D	NO				FT	NO			NO						FT
REAMER	O D	KIND				FT	KIND			KIND						FT
STABILIZER	O D	KIND				FT	KIND			KIND						FT
JARS		KIND				FT	KIND			KIND					720	FT
BUMPER SUB		KIND				FT	KIND			KIND						FT
BIT OR CORE BARREL						FT									6458	FT
TOTAL DP & TOOLS			90	70	12	FT		90	70	12	FT		90	79	48	FT
KELLY DOWN (BELOW R B)					19	48	FT			19	88	FT			11	FT
DEPTH OF TOOLS			70	90	00	FT		90	90	00	FT		90	90	98	FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	9090 FEET		
DEPTH START OF TOUR	9088 FEET	9090 FEET	9090 FEET
FOOTAGE DRILLED	02 FEET		

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	9 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	64 1500	64 1500	64 1500	64 1500	64 1500							64 1300
ROTARY SPEED	60											
WEIGHT ON BIT	15											
MUD WEIGHT	11.2				11.2							11.3
VISCOSITY	150			190	225							215
WL F C	4 1/2			4 1/2	4 1/2							
pH	9.5			9.5	9.5							7.5

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN. 3/16	INITIAL	FEET	FEET	FEET	FEET
39	8 3/4	78163	R.O. SSIG	3/4 1/16		1088	9090	2	4-1-1
40	6 3/4	71A32	WAS DRILL			Reamed 55'			Drilled 2'

CORE No	No	DST No	FROM	TO	RECOVERY	HOURS
			PREFLOW			9 - 0
			IS			11 2
			VO			190 4 1/2
			FS			128 9.5
			RECOVERY			80 15
						96 T

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	B. CHAMBERS	A. S. W. W. S.	F. KRAUGHUK
DERRICKMAN	W. D. WILKINSON	W. WAGSTILL	L. WHITING
HELPER	C. MURPHY		D. MCCABE
HELPER	J. FLORES		J. WANDLER
HELPER	J. McLaughlin		G. JACOBSON
MAN			
MAN			

MUD CHEMICALS ADD
 TOUR
 GEL
 LARINE
 CRUSTIC
 SPERMINO
 C.M.C
 WATER

TOUR
 TOUR

TOUR

Reamed
 Drilled
 Condition
 Trapped
 10 ft
 First
 7 single
 Circles
 running

Refrigeration
 9:00 am Ambient

SOBS ON SHARPER CRT # 022

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
DATE	TIME	Material	Amount			
		TOUR		12 ⁰⁰	12 ⁴⁵	REAMING RAT HOLE.
				12 ⁴⁵	1 ¹⁵	SHIMMIE WASH PIPE JOCKING.
90	65	GEL	3000#	1 ¹⁵	1 ²⁰	REAMING RAT HOLE.
		BARITE	500#	1 ²⁰	1 ⁴⁵	RE WIRE & JOBS
3	00	CAUSTIC	150#	1 ⁴⁵	2 ⁴⁵	REAMING RAT HOLE
		SPERSIVE	175#	2 ⁴⁵	3 ⁰⁰	12PLG
	87	C.M.C	50#	3 ⁰⁰	4 ³⁵	CIRC W/PIPE + MIX MUD
1	56	WATER	2000#	4 ³⁰	6 ¹⁵	10 STAND DUMMY TRIP (TIGHT)
				6 ¹⁵	8 ⁰⁰	CIRC W/PIPE + COND. MUD.
		TOUR 2		8 ¹⁰	9 ⁰⁰	CIRC
				9 ⁰⁰	9 ⁰⁰	Sunday Son Rig Check B.O.B. Rig Specs
7	20					BRWEN mats
				9 ⁰⁰		Heart 3-stds Hole Tight Run out 7
6	45				3 ⁰⁰	Singles. Heart +
7	94			3 ⁰⁰	3 ⁰⁰	MAKE UP CORE BBL. JARS
11				3 ⁰⁰	4 ⁰⁰	Run in W.P.
9	08	TOUR 3		4 ⁰⁰	4 ¹⁵	RIG SERVO BOB'S
				4 ¹⁵	5 ¹⁵	SKIP @ CUT GEL LINE
				5 ¹⁵		RUN IN 5000 CIRC RUN INTO 8600 CIRC
						RUN IN 9040 CIRC TO BIT
					1200	PURGE GHB DOWN

1300
113
2:15
75
CONDITION
-1
REPORT
AIR 0
1st GEL 15
10 MIN GEL 30
W.P.F.C 4 1/2
PH 9.5
D.M.H 15
T.C.A. ppm Tr
RECORD

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Reamed rat hole to 9088
 Drilled 2' from 9088 to 9090
 Conditioned mud - patchy
 Trapped out bit @ 39 and picked up core bbl
 10 stand dummy trip - tight
 First 7 stands on trip out - tight - pumped out
 7 singles
 Circulated at 5000, 8600 and last two singles when
 running in with core bbl.

Refrigeration Conductor bbl
 9⁰⁰ AM Ambient Temp +18°F Alcohol Returns +28°F

Li T. J. J. J.
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *C.P. DRILL* RIG NO. *15*
 LSD *N66°* SEC *42'* TWP. *N37'* R. *20' W*

2035
 MUD CHEMICALS AD

FIELD *WIDEART* WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT *APRIL 15 1971*

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO <i>8</i> FT	NO <i>8</i> FT	NO <i>8</i> FT
SINGLE D.P.	NO <i>2</i> <i>8388.65</i> FT	NO <i>2</i> <i>8390.97</i> FT	NO FT
X OVER SUB 7" O.D.	<i>300</i> FT	<i>300</i> FT	<i>300</i> FT
OTHER O.D.	<i>67</i> FT	FT	FT
DRILL COLLARS 20 O.D.	<i>613.68</i> FT	<i>613.68</i> FT	<i>20</i> <i>613.68</i> FT
DRILL COLLARS CORN O.D.	NO FT	NO FT	NO FT
REAMER O.D.	KIND FT	KIND FT	KIND FT
STABILIZER O.D.	KIND FT	KIND FT	KIND FT
JARS	<i>720</i> FT	FT	FT
BUMPER SUB	FT	FT	FT
BIT OR CORE BARREL	<i>6458</i> FT	FT	FT
TOTAL D.P. & TOOLS	<i>9077.98</i> FT	<i>9082.55</i> FT	<i>9039.10</i> FT
KELLY DOWN (BELOW R.B.)	<i>1050</i> FT	<i>2545</i> FT	<i>31</i> FT
DEPTH OF TOOLS	<i>9008.48</i> FT	<i>9033.00</i> FT	<i>9070.10</i> FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>9088</i> FEET	FEET	<i>9070</i> FEET
DEPTH START OF TOUR	<i>9061</i> FEET	<i>9088</i> FEET	<i>9033</i> FEET
FOOTAGE DRILLED	<i>27</i> FEET	FEET	<i>37</i> FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP spm p.s.i.	<i>50</i>	<i>50</i>					<i>63</i>		<i>57</i>	<i>57</i>	<i>56</i>	
ROTARY SPEED R.P.M.	<i>85</i>	<i>85</i>							<i>108</i>	<i>108</i>	<i>108</i>	
WEIGHT ON BIT M lbs.	<i>12</i>	<i>12</i>							<i>12</i>	<i>12</i>	<i>12</i>	
MUD WEIGHT lb/gal							<i>10.7</i>		<i>10.1</i>	<i>11.0</i>		
VISCOSITY sec/qt							<i>195</i>		<i>160</i>	<i>126</i>		
W.L.F.C. cc/32nd									<i>52</i>	<i>52</i>		
pH									<i>10</i>			
MUD LEVEL IN TANKS Ft/Ins												

TOUR
 TOUR
 TOUR
 TOUR

Core #3
Turn
BIT - 50
mud p
3500
10. Tigh

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS
<i>38</i>	<i>6 1/16</i>	<i>71A32</i>	<i>WIDTDRIL</i>	<i>8 1/2</i>		<i>9033</i>	<i>9098</i>	<i>55 7 Fair</i>
<i>39</i>	<i>8 1/4</i>	<i>2X1634</i>	<i>REGO-SS16</i>	<i>2 1/2 1/16</i>		<i>9033</i>	<i>9070</i>	<i>37 100</i>

CORE No	DST No	FROM	TO	MUD ENGINEER'S REPORT

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>A CHAMBERS</i>	<i>H. SKINNER</i>	<i>ED KIRBAUCH</i>
SERVICEMAN	<i>W. DIERMICK</i>	<i>W. WASHBURN</i>	<i>Les writing</i>
FILMER	<i>G. HARBER</i>	<i>M. LYONS</i>	
HELPER	<i>J. FLATO</i>	<i>C. CHAZI</i>	<i>Jim Wavelle</i>
SCALER	<i>T. McCaulley</i>	<i>I. EICKER</i>	<i>Helen Jacobson</i>
REMARKS	<i>9 3/4 31</i>		
	<i>10</i>		

9 3/4 31
10

15
SUBC J.M. SHAFFER CRKT #1

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
ON TOUR		Kind	Amount			
252	FT	TOUR		12 ²⁰	4 ²⁰	CUTTING CORE #3 PULL OUT PAT at 1/2 Show Vial to 167 to MUST. Lifting & Core #3.
	FT	Gel	1500"	4 ¹⁵	4 ²⁰	
	FT	Solids	7500"	4 ²⁰	8 ⁰⁰	
300	FT	Water	5000 lbs			
	FT					
368	FT					
	FT					
	FT	TOUR 2		8 ¹⁵	9 ¹⁵	Heart Core #3 Break down Corbett handle Corbett. Gas Circ Use Corbett & Stand on Corbett See by Close down Blow Core Run in to 3500 Circ Run in to 5000 Circ Run in to 5350. Circ. Run in to 8980 NO CLEAN IN TO TOP OF PAT HOLE BIG SURF BORDS BEAR PAT HOLE TO 2 3/4
	FT			9 ¹⁵		
	FT				10 ³⁰	
	FT			10 ³⁰	11 ¹⁵	
	FT			11 ¹⁵	11 ³⁰	
	FT			11 ³⁰	1 ⁰⁰	
3910	FT			1 ⁰⁰	2 ³⁰	
	FT			2 ³⁰	3 ¹⁵	
	FT	TOUR 3		3 ¹⁵	3 ⁴⁵	
	FEET	Water	5500	3 ⁴⁵	4 ⁰⁰	
	FEET	Solids	6000	4 ⁰⁰		
	FEET		25"		7 ⁰⁰	
	FEET		30"	7 ⁰⁰	7 ¹⁵	
	FEET			7 ¹⁵	12 ⁰⁰	

CEMENTING TESTING LISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Core #3 9033 - 9078 recovered 53.7 ft.
Jammed on connection.
B.T - some iron damage

Mud patchy - ran in and circulated at
3500, 5000 and at 8980 - no fill to top of rat hole
no tight spots.

CONDITION

TEST REPORT

K 0.07
Gel 10
Min Gel 36
C.L. 5 1/2
W 9.0
V 15
A. 30
C. 3000

CORD

Reading

2
9 30 Ambient Temp +25
10 31 " " +20

Alcohol returns +24°F
" " +28°F

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. DRUG* RIG NO *15*
 LSD *N66°* SEC *42* TWP *N137* ROP *20'* W

FIELD *440047* WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *11, 20, 21, 24* 1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	DP	NO <i>80</i>			FT	NO <i>80</i>	<i>831832</i>	FT	NO <i>75</i>			FT	
SINGLE	DP	NO <i>2</i>	<i>841903</i>		FT			FT	NO <i>1</i>	<i>836055</i>		FT	
X OVER SUB	OD		<i>300</i>		FT		<i>300</i>	FT	<i>X-O</i>		<i>300</i>	FT	
OTHER	OD				FT			FT	<i>LONGER</i>		<i>6458</i>	FT	
DRILL COLLARS	<i>19</i> OD		<i>58212</i>		FT	<i>20</i>	<i>61368</i>	FT	<i>20</i>	<i>61368</i>		FT	
DRILL COLLARS	OD	NO			FT	NO		FT	NO			FT	
REAMER	<i>X-OVER</i> OD	KIND			FT	<i>X-OVER</i> KIND	<i>87</i>	FT	KIND			FT	
STABILIZER	OD	KIND			FT			FT	<i>NO SUB</i>		<i>87</i>	FT	
JARS	<i>Junk sub</i>	KIND	<i>340</i>		FT	<i>JARS</i> KIND	<i>720</i>	FT	<i>JARS</i> KIND		<i>720</i>	FT	
BUMPER SUB		KIND			FT			FT				FT	
BIT OR CORE BARREL					FT	<i>Core</i>	<i>6458</i>	FT				FT	
TOTAL D.P. & TOOLS			<i>900755</i>		FT		<i>900755</i>	FT		<i>904938</i>		FT	
KELLY DOWN (BELOW R B)			<i>2300</i>		FT		<i>2585</i>	FT		<i>12</i>		IFT	
DEPTH OF TOOLS			<i>903055</i>		FT		<i>903305</i>	FT		<i>906188</i>		FT	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			<i>9061</i> FEET
DEPTH START OF TOUR	<i>9031</i> FEET	<i>9033</i> FEET	<i>9033</i> FEET
FOOTAGE DRILLED			<i>20</i> FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	5:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP									<i>8:00</i>	<i>8:15</i>	<i>8:30</i>	<i>8:45</i>
ROTARY SPEED									<i>70</i>	<i>80</i>	<i>80</i>	<i>80</i>
WEIGHT ON BIT									<i>8</i>	<i>10</i>	<i>12</i>	<i>12</i>
MUD WEIGHT		<i>11.2</i>							<i>10.7</i>	<i>10.0</i>	<i>10.5</i>	<i>10.9</i>
VISCOSITY		<i>300</i>							<i>240</i>	<i>210</i>	<i>200</i>	<i>190</i>
W.L.F.C.		<i>3.2</i>										
pH		<i>8.5</i>										

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS
<i>322</i>	<i>6 1/2 AT 13</i>		<i>H.W. - TUR</i>	<i>7/14</i>		<i>11:51</i>	<i>9:03</i>	<i>Junk sub Run</i>

CORE No.	No.	DST No.	FROM	TO	ODD ENGINEER'S REPORT
					<i>10</i> <i>0.07</i>
					<i>110</i> <i>0.40</i>
					<i>210</i> <i>4 1/2</i>
					<i>90</i>
					<i>79</i> <i>15</i>
					<i>49</i> <i>30</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>A. CHAMBERS</i>	<i>H. S. ...</i>	<i>Ed Krausbeck</i>
DERRICKMAN	<i>W. DRANKO</i>	<i>W. W. ...</i>	<i>Les ...</i>
HELPER	<i>R. HAIBER</i>	<i>...</i>	<i>...</i>
HELPER	<i>S. FRATO</i>	<i>C. ...</i>	<i>...</i>
HELPER	<i>T. McEWAY</i>	<i>I. ...</i>	<i>...</i>
DRIVER	<i>James ...</i>		

MUD ... CHEMICALS ...
 TOUR 1
 TOUR 2
 TOUR 3
Double
Trapped ...
Law ...
State
Mud ...
...

WOBCE W/M SHARPSHIRT CKY 7 # 022

1977		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
N TOUR	FT	Kind	Amount			
		TOUR		12 ⁰⁰	12 ⁰⁰	PIC 5000
				12 ⁰⁵	3 ¹⁵	Run in 3" pipe core = 5000, + 7500.
0	55		2000	3 ⁵⁵	4 ¹²	3" pipe - 4" in 75' to bottom.
3	00		1000	4 ¹⁵	5 ⁰⁰	core + 1" pipe
4	58		700	5 ⁰⁰	5 ³⁰	1" junk sub.
3	68			5 ²⁰	6 ⁰⁰	surviving
				6 ⁰⁰	8 ⁰⁰	HOIST. + DOUBLE MEASUREMENT
						Kelly is 23.00 ft. IN W/NO WT.
		TOUR 2		8 ⁰⁰	10 ⁰⁰	HOIST DOUBLE MEASUREMENT
				12 ⁰⁰	11 ⁰⁰	BREAK UP 2" pipe with 2" bit
	87			11 ⁰⁰	11 ⁰⁰	1" pipe with 2" bit
7	20			11 ⁰⁰	12 ⁰⁰	Set log screw + wire line
				12 ⁰⁰	12 ⁰⁰	Run 2" pipe with 2" bit
				12 ⁰⁰	1 ⁰⁰	1" pipe with 2" bit
7	38			1 ⁰⁰	4 ⁰⁰	Run in 3" pipe with 2" bit
2						
1	88	TOUR 3		4 ⁰⁰	5 ⁰⁰	Run in 3" pipe
		Caustic	15"	5 ⁰⁰	7 ¹⁵	BREAK UP 2" pipe with 2" bit
1		Spencer	75"	7 ¹⁵	7 ³⁰	RIP SERR. BIT
3		Powder	15"	7 ³⁰	12 ⁰⁰	CUT CORE #3
		Oil	200"			
		Weight M.C.	3500"			
		Water	100 bbls.			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

20 80 Double Tully out
 2 12 2 AM 9039 41
 7 10 8 Remaining Tully 9033 85
 0 190 Ditch 0.86 - No Cor'n made

Tapped out junk sub - 3 bit teeth found.
 Lay down junk sub - picked up bottom hole collar and core bit - ran in
 Started cutting core #3

Mud very patchy

Consolidator Bbl. - 5 AM
 Ambient Temp 720 F
 Alcohol returns 726 F

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *GP.* RIG NO *15*
 LSD *N66°* SEC *45'* TWP *N137* Rge *20'* W

FIELD *WILD CAT* WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT *April 13 1971*

5030

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	DP	NO <i>88</i>			FT	NO <i>88</i>	<i>839087</i>	FT	NO <i>88</i>			FT	
SINGLE	DP	NO <i>1</i>	<i>335779</i>		FT	NO <i>2</i>		FT	NO <i>2</i>	<i>841903</i>		FT	
X OVER SUB	<i>1</i> O.D.		<i>300</i>		FT		<i>300</i>	FT		<i>300</i>		FT	
OTHER	O.D.				FT			FT				FT	
DRILL COLLARS	O.D.	<i>20</i>	<i>61368</i>		FT		<i>61368</i>	FT	<i>19</i>	<i>59212</i>		FT	
DRILL COLLARS	O.D.	NO			FT	NO		FT	NO			FT	
REAMER	O.D.	KIND			FT	KIND		FT	KIND			FT	
STABILIZER	O.D.	KIND			FT	KIND		FT	KIND			FT	
MS <i>JUNK SUB</i>		KIND			FT	KIND		FT	KIND	<i>340</i>		FT	
BUMPER SUB		KIND			FT	KIND		FT	KIND			FT	
BIT OR CORE BARREL					FT		<i>700755</i>	FT				FT	
TOTAL D.P. & TOOLS			<i>897447</i>		FT		<i>900755</i>	FT		<i>900755</i>		FT	
KELLY DOWN (BELOW R.B.)			<i>1453</i>		FT		<i>2545</i>	FT		<i>41220</i>		FT	
DEPTH OF TOOLS			<i>878900</i>		FT		<i>903300</i>	FT		<i>904877</i>		FT	

MUD CHEMICALS A
 TOUR 1
 TOUR 2
CEL
SARIS
CAUSTIC

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>9031</i> FEET	<i>9033</i> FEET	<i>9033</i> FEET
DEPTH START OF TOUR	<i>9031</i> FEET	<i>9031</i> FEET	<i>9033</i> FEET
FOOTAGE DRILLED	<i>0</i> FEET	<i>2</i> FEET	

TOUR 3
~~CEL~~

DAY WORK	HOURS											
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP			<i>66</i>	<i>66</i>					<i>66</i>	<i>66</i>		
ROTARY SPEED			<i>46</i>	<i>46</i>	<i>90</i>	<i>90</i>						
WEIGHT ON BIT			<i>4.8</i>	<i>4.8</i>	<i>14.2</i>	<i>12m</i>						
MUD WEIGHT			<i>11.5</i>	<i>11.5</i>								
VISCOSITY												
W.L.F.C.					<i>46</i>							
p.H.												
MUD LEVEL IN TANKS												

Finished Circulate hole - dr. center row and pick

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	REMOVED FROM	TO	BIT CONDITION
<i>36</i>	<i>8 3/4</i>	<i>AH112</i>	<i>SMITH SUB</i>	<i>7/16-1/8</i>	<i>9</i>	<i>8971</i>	<i>9031</i>	
<i>37</i>	<i>8 3/4</i>	<i>AH112</i>	<i>H.W. XWR</i>	<i>3/14</i>				

Survey at top of

CORE No	DST No	FROM	TO	MUD ENGINEER'S REPORT
				Time <i>9</i> min Rate <i>11.2</i> ft/min Vis <i>135</i> W.U.C. pH <i>117</i> p.p. <i>72</i> p.p. <i>90</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>James Johnson</i>	<i>A CHAMBERS</i>	<i>A SKINNER</i>
DENRICKMAN	<i>Edgar Long</i>	<i>W. DIMITRO</i>	<i>W. Wainstaff</i>
HELPER	<i>Alan Vance</i>	<i>E. H. BIR</i>	<i>M. Lyons</i>
HELPER	<i>WILL KROCHER</i>	<i>J. FLATO</i>	<i>C. Chase</i>
HELPER	<i>Jim Graham</i>	<i>T. M. Gaulty</i>	<i>J. Ficker</i>

Refrigerator 9:00 AM Ambient

5088 WM. JAWOFFER CK 4T 0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

19 71		MUD	CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
		Kind	Amount			
TOUR 1				12:00	12:15	Rig Seaside w Dog
9 03 FT				12:15	12:45	Fix up Kelly, Record Pipe @ 5000'
3 00 FT				12:45	2:15	TRIP IN, Double Measure in
2 12 FT				2:15	2:30	Shear Pipe @ 7500'
				2:30	4:00	Finish TRIP IN, Clean & s/l to Top of RAT
				4:00	4:00	REAR RATCHOLE FROM 8971 TO 8989. HOLE
TOUR 2				8:20	11:00	NOTE, FOUND TOP OF RATCHOLE @ 8971 65 FB
CEL		500#		11:00	11:30	PRIMING RAT HOLE
3 40 FT		3000#		11:30	1:20	RIG - RRJ 130PS TIG SAWERS
		CAUSTIC 150#		1:20	2:30	PRIMING RAT HOLE
				2:30	4:00	CIRC & W/ PIPE
						10 STAND DUMMY TRIP.
TOUR 3				4:10	4:30	Kelly is 15:77 40' OR. 25.45 W/.
4:30				4:30	4:55	Circ in 3 Single. CLEAN 12' TO BOTTOM
4:55				5:45	5:45	SE. BY CHECK B.O.P.
5:45				6:00	6:00	Circ
6:00				10:00	10:00	Pump Survey
10:00				11:00	11:00	Hoist
11:00				12:00	12:00	MAKE UP JUNK SWAY DOWN BOTTOM
						Hole Collar. Close & Open Blowdown.
						Running in Hole

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Finished reaming out hole
Circulated & worked pipe to get iron to bottom of hole - drilled 2 feet. Tripped out - 5 teeth missing on centre row of teeth - laid down bottom hole drill collar and picked up junk sub.

Survey at 9031 - 2' - Total ring counted off centre at top of bit.

Pre-temperature Conductor lab'
9:30 AM Ambient Temp +16°F Alcohol returns +22°F

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD Wildcat WELL NAME

CONTRACTOR

RIG NO

LSD N 66° SEC 42 TWP W 137° R_{40'} 20' W

5013

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

April 12

1971

MUD CHEMICALS

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO 87				NO 88	8322	256		NO 88	8322	256	
SINGLE	D.P.	NO 1	8264	42	FT								
X-OVER SUB	7 O.D.			300	FT			300	FT			300	FT
OTHER	O.D.				FT				FT				FT
DRILL COLLARS	20 O.D.		613	68	FT		613	68	FT		613	68	FT
DRILL COLLARS	O.D.	NO			FT	NO			FT	NO			FT
REAMER	O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER	O.D.	KIND			FT	KIND			FT	KIND			FT
JARS		KIND		720	FT	KIND		720	FT	KIND		720	FT
BUMPER SUB	C.D. Sub.	KIND		87	FT	KIND		87	FT	KIND		87	FT
BIT OR CORE BARREL				6458	FT			6458	FT			6458	FT
TOTAL D.P. & TOOLS			8953	75	FT		9016	89	FT		9011	86	FT
KELLY DOWN (BELOW R.B.)				4022	FT			1911	FT			1911	FT
DEPTH OF TOOLS			8993	97	FT		9031	00	FT		9031	00	FT

Caustic
Spersene

TOUR 2

TOUR 3

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	8990 FEET	9031 FEET	
DEPTH START OF TOUR	8971 FEET	8990 FEET	9031 FEET
FOOTAGE DRILLED	19 FEET	41 FEET	

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	1:00 P.M.	4:30 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP			50	50		85	85	85				
ROTARY SPEED			80	80		85	85	85				
WEIGHT ON BIT						12	12	12				
MUD WEIGHT												
VISCOSITY			23	50	23							
W.L. F.C.				9								
pH												
MUD LEVEL IN TANKS												

cut cor

Weight
Changed
2nd was
than for

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
35	6 3/4	71A-31	WASH DRILL			8971	9031	60	7 3/4 Good
36	8 3/4	FD392	SMITH STH	3/4 1/3					

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	8	AK	08
					Mud Wt	11.1		
					Visc	250		4.8/2
					AV			8.5
					PV	76		150
					Y.P.	95		50

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	James K. Jensen	A Chambers	H. Skinner
DERRICKMAN	Alan Long	W. Dziwieko	W. Wagsstaff
HELPER	Mike Benz	B. Habier	M. Lyons
HELPER	Walt Klau-Chomic	J. Flato	C. Chase
HELPER	Jim Graham	T. McCaushey	J. Kieba
FOREMAN	James Jensen		
TOOL PUSHER	James Jensen		

Kind: Totes 8965
Depth: 114

Retrievable
4:00 am Ambro

S O B C W M Shafter CK YT 0-22

19 71		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	FEET	Amount				
TOUR 1				12 ⁰⁰	12 ¹⁵	Run in to 5000
	2 56			12 ¹⁵	12 ³⁰	Rig Service - Stop
				12 ³⁰	1 ⁰⁰	Get on Kelly Hose, Break Pipe
				1 ¹⁵	2 ¹⁵	Run in to 7500 Break Pipe
	3 00			2 ¹⁵	2 ³⁰	Circ
				2 ³⁰	4 ³⁰	Finish top in, Circ 3 sigs to L&L
	3 68	Caustic 150 ⁰⁰		4 ³⁰	5 ³⁰	Circ, Keep Ball, Circ Pull Down
		Spersene 150 ⁰⁰		5 ³⁰	8 ⁰⁰	Cutting Core #2
				8 ⁰⁰	12 ⁰⁰	CUTTING CORE #2
				12 ⁰⁰	12 ¹²	Connection
	7 20			12 ¹²	1 ³⁰	CUTTING CORE #2
				1 ²⁰	1 ⁴²	Pull out of PAT HOSE
	8 17			1 ⁴²	4 ⁰⁰	HOIST BIT 35' W/COMP BDL
	4 58					
	1 86					
	9 11					Risky IW. 19.50 ft
TOUR 3				4 ⁰⁰	6 ⁴⁵	HOIST CORE #2 DOUBLE MEASURE
				6 ⁴⁵	8 ⁴⁵	Break down COMP BBL HANDLE & Box Core
				8 ⁴⁵	9 ⁰⁰	SPRING OVER STAND IN PENALTY
				9 ⁰⁰	12 ⁰⁰	CLOSE & OPEN BITE RINGS 3rd Rig
						Run in Double measure

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Cut core #2 8971 - 9031 - recovery 56.8 feet

Weight indicator not reading correctly - sluggish.
 Changed weight indicators - difference of 40,000 #
 2nd weight indicator reading high but more sensitive
 than former indicator.

TEST REPORT

0.08
 4.8/2
 8.5
 15
 A.P.P.M. 50
 L.P.P.M. 180

Retrieverina Conductor 6.61
 4⁰⁰ am Ambient Temp +4° Alcohol Refractor 16° F.

TOUR REPORT

CONTRACTOR *GP*

WELL NO. *15*

FIELD *WILCOX*

WELL NAME *N 66° 40'*

DATE *8/13/71*

TIME *11*

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING OTHER (SPECIFY) *AP 11*

1971

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	<i>4 1/2</i>	<i>NO 88</i>	<i>832756</i>	<i>NO 88</i>	<i>832756</i>	<i>NO 88</i>	<i>832756</i>	<i>NO 88</i>	<i>832756</i>
SHOULDER									
COLL SUB	<i>3</i>		<i>300</i>	<i>3</i>		<i>300</i>	<i>3</i>		<i>300</i>
OTHER									
COLLARS	<i>7</i>	<i>20</i>	<i>61368</i>	<i>7</i>	<i>20</i>	<i>61368</i>	<i>7</i>	<i>20</i>	<i>61368</i>
COLLAR									
WEIGHT									
STABILIZER									
WARS									
BUMPER SUB									
BIT OR PIPE BARREL									
TOTAL D.P. & TOOLS			<i>894424</i>			<i>894424</i>			<i>894424</i>
KELLY DOWN BELOW R.B.			<i>2676</i>			<i>2676</i>			<i>2676</i>
DEPTH OF TOOLS			<i>897100</i>			<i>897100</i>			<i>897100</i>

60 WS

TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR		<i>8971</i>	FEET		<i>8971</i>	FEET		<i>8971</i>	FEET
DEPTH START OF TOUR		<i>8971</i>	FEET		<i>8971</i>	FEET			FEET
FOOTAGE DRILLED		<i>1</i>	FEET		<i>0</i>	FEET			FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:30 AM	4:00 AM	6:00 AM	8:00 AM	8:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM

PUMP	NO. PS	<i>63</i>	<i>1600</i>	<i>63</i>	<i>1600</i>	<i>63</i>	<i>1600</i>	<i>63</i>	<i>1600</i>
ROTARY SPEED	RPM	<i>80</i>	<i>80</i>	<i>36</i>	<i>36</i>				
WEIGHT ON BIT	W.B.K.	<i>10</i>	<i>PIPE HOLE</i>						
MUD WEIGHT	LB/QT								
VISCOSITY	SEC/30"								
W.L.F.C.	SEC/30"								
P.H.									
MUD LEVEL IN TANKS	FEET								

CIRRE + CUD?

NO.	SIZE	SERIAL	BIT	NO.	NO.	NO.	NO.	NO.	NO.
<i>31</i>	<i>8 1/4</i>	<i>274445</i>	<i>M44N</i>	<i>SEC</i>	<i>3/2 1/2</i>	<i>12</i>	<i>8970</i>	<i>8970</i>	<i>60</i>
<i>34</i>	<i>8 1/4</i>	<i>274445</i>	<i>M44N</i>	<i>SEC</i>	<i>3/2 1/2</i>	<i>114</i>	<i>8970</i>	<i>8971</i>	<i>1</i>

3-1-1 (Reamed)

CURE	TYPE	FRONT	TYPE	FRONT	TYPE	FRONT	TYPE	FRONT	TYPE

	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>J KRAUSEL</i>	<i>A ENAMIZARS</i>	<i>H SKINNER</i>
DRILL ASSISTANT	<i>G Long</i>	<i>W DANIELKO</i>	<i>W WAGSTOFF</i>
DRILLER	<i>A BELL</i>	<i>G HABIER</i>	<i>M LYONS</i>
DRILL ASSISTANT	<i>J GRADANI</i>	<i>J FLATO</i>	<i>C CHASE</i>
DRILLER	<i>W KRAUCKUCK</i>	<i>T McCAULEY</i>	<i>I KIESER</i>
DRILL ASSISTANT	<i>J...</i>		

Temperature 74°

APPROVED: *[Signature]*

CORE W/ SHAEFFER CK IT 0-22

1971		MATERIALS CHEMICALS ADDED		From	To	OTHER HOURS OPERATING LIFT WORK DONE
TOUR	TIME	Kind	Amount			
				12 ⁰⁰		Reaming Latchole from 8752 to 8770, and cure hole Cure Hole Hoist 10 stnds dummy trip Rig Seals & Lops Run in 10 stnds 5" Fall on 2nd etc, was left to pore
056	FT	TOUR 1			445	
			3000 #	445	515	
			7560 #	515	545	
				545	615	
				600	630	
				630	800	
				800	900	
				900	930	
				930	1015	
				1015	1130	
				1130	120	
				120	215	
				215	325	
				325	415	
				415	745	
				745	805	
				805	910	
				910	915	
				915	1015	
				1015	1130	
				1130	1200	
				1200		

Cure of Pipe
 Supply & Rig work
 Hoist 10 STANDS TIGHT
 Run in & Clean 10' to Bottom
 Cure & 1/2 Pipe & mix mud
 Hoisting bit etc.
 Ripping chain in WORKS
 Hoisting
 Hoist
 Pick cone 301 500 & MAKEUP same
 Sea Rig Close & OPEN Blind Rams
 Run in Core 10' & 20'
 Side cut 10' & 20'
 Run in

CLEANING, TESTING, FINISH, SPECIAL DETAILS, INCLUDING ENGINEERING DRAWINGS

Evidence of iron in hole
 Reamed & milled to 8970 and drilled one foot
 Made 10 stnds dummy trip - 5" fall on bottom
 Circulated 2 1/2 hours.
 Started tripping out - pulled 10 stands - first 7 stands tight
 Tripped back into bottom - circulated and conditioned
 mud for 3 hours
 Tripped out - no tight spots
 Picked up core 101 and started in.

(Reamed)

Refrigeration Condenser bbl
 7 am Ambient Temp -17°F Alcohol returns +6°F.


 SIGNATURE COMPANY ENG'G

TOUR REPORT

CONTRACTOR **GP** REP NO **15**

FIELD **W. LO CAT** WELL NAME **N 66 42' LSD** SEC **6137 TWP 20'** RPT **W**

5066 W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **April 10** 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO 88		FT	NO 87		FT	NO 87		FT
SINGLE	D.P.	NO 2	8264	42 FT	NO 1	8264	42 FT	NO 2	8296	05 FT
X OVER SUB	7 O.D.			300 FT			300 FT			300 FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	O.D.			FT			FT			FT
DRILL COLLARS	7 O.D.	NO 20	613	68 FT	NO	613	68 FT	NO	613	68 FT
REAMER	O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND		FT
JARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			8881	10 FT		8881	10 FT		8912	73 FT
KELLY DOWN BELOW R.B.			28	90 FT		31	90 FT		41	22 FT
DEPTH OF TOOLS			8910	00 FT		8913	00 FT		8953	95 FT

TOOL
 GEL
 W
 CMC

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	8970 FEET	8970 FEET	
DEPTH START OF TOUR		8970 FEET	8970 FEET
FOOTAGE DRILLED		0 FEET	

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:30 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:30 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP	/				63		63	63	63	63	63	63
ROTARY SPEED	/				60	60	80	85	85	85	85	85
WEIGHT ON BIT	/				4	6	10	10	10	10	10	10
MUD WEIGHT	/				10.4	10.5	10.5	11.1	11.1	11.1	11.2	11.2
VISCOSITY	/				18	150	155	155	155	155	175	175
W.L.F.C.	/				3.2	3.2	3.2	3.8	3.8	3.8	3.8	3.8
pH	/						9.2	9.2	9.2	9.2	9.2	9.2

cut Core
 Trip in
 rat hole

NO.	SIZE	SERIAL	BIT KIND AND TYPE	BIT SIZES IN IN.	TOTAL HOURS	PHOSPHOR	TO	REMARKS
34	8 3/4	274442	M144N SEC	7/8 1 1/2	742	5110	4953	Running

CORE No.	No.	DST No.	FROM	TO	REMARKS
			PREFLOW	max. 107	
			FROM	11.1	15
			TO	175	4 1/2
			RECOVER	96	9.0
			HOURS	63	15

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	J. Peterson	R. Chambers	H. Kinnick
DRILLMAN	C. Long	W. Dzwierko	W. Waystape
HELPER	A. Benz	G. Harbier	M. Lyons
HELPER	J. Gantman	S. Fichto	C. Chase
HELPER	W. Krauscheck	J. McCaulley	J. Fieber
FIREMAN			
TOOL FISHER	James Fisher		

Recovery at 10
 2 am Amb

SOBC WMI SHEFFER CK 97 0-22

MATERIALS CHEMICALS ADDED			From	To	OTHER HOURS OPERATING DETAIL WORK DONE
1971			12 ⁰⁰	2 ⁴⁵	Hoist Core 2bl Rig Service & Loss Handle Core, Service 2bl STAND LOCK same MAKE UP PIT + Trip in w/DC WORK ON COMPOUNDS & HIGH MURCH
TOUR			2 ⁴⁵	3 ⁰⁰	
FT			3 ⁰⁰		
0.5 FT			5 ⁰⁰		
0.0 FT			5 ³⁰	6 ⁰⁰	
3.68 FT					
FT	TOL		8 ⁰⁰	9 ⁰⁰	FINISH REMAINING ANCHORS IN COMPOUNDS RIG SURV + 20.75 IRG SURVES Run in w/ BIT 34 TO 2000' BIT HOLE. + BIRK. CURC @ 5000' + 7500' + CLEAN IN 150' TO TOP OF RAT HOLE. PUSHING w/ 2-4 m. ON BIT.
FT	GEL	4100 [#]	9 ⁰⁰	9 ¹⁵	
FT	WI	600 [#]	9 ¹⁵		
FT	Case	50 [#]		1 ¹⁵	
FT	SPR	50 [#]	1 ¹⁵	2 ¹⁵	
FT	CMC	150 [#]	2 ¹⁵	4 ⁰⁰	
27.3 FT					
17.2 FT					
3.95 FT	TOL		4 ⁰⁰	6 ¹⁵	Reaming Lat Hole See Rig CHECK 2000' Reaming 8913-8953
OUR	Case	200 [#]	6 ¹⁵	6 ¹⁵	
FEET	Case	3200 [#]	6 ¹⁵	12 ⁰⁰	
0 FEET					
0 FEET					
HOURS					
PM 12:00 PM					

CEMENTING TESTING FINISHING SPECIAL JOB DETAILS RECORDING ENGINEERING SUMMARIES

5 85 Cut Core #1 8910-8970 - Recovered 60'
 2 10 Trip in to beam - no bridges or fill down to top of
 1 11.2 rathole. Broke circulation at 5000' and 7500'.
 5 175
 2 3.5
 2 9.2

CONDITION

REPORT

107

15

45

2 8/2

9.0

15

300

1/4 Rehydration Conductor 66'
 2 pm Ambient Temp 12°; Alcohol returns 416°E

L. F. J. [Signature]
 SIGNATURE COMPANY INC.

TOUR REPORT

FIELD *Wildcat* WELL NAME *N 66° 42' 30" SEC N 137° 10' 20" W* DATE *April 9 1971*

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO. <i>86</i>			NO. <i>87</i>	<i>823233</i>		
SINGLE	D.P. NO. <i>2</i>	<i>8200</i>	<i>83</i>			<i>23613</i>	
EXCER SUB	<i>9</i>		<i>300</i>		<i>300</i>		<i>300</i>
OTHER	<i>40</i>				<i>87</i>	<i>40</i>	<i>87</i>
DRILL COLLARS	<i>9</i>	<i>80</i>	<i>61368</i>		<i>61368</i>		<i>61368</i>
DRILL COLLARS							
REAMER							
STABILIZER							
JARS					<i>720</i>		<i>720</i>
BUMPER SUB					<i>6458</i>		
BIT OR CORE BARREL			<i>7205</i>		<i>7205</i>		<i>6458</i>
TOTAL D.P. & TOOLS		<i>889016</i>			<i>892166</i>		<i>892372</i>
KEELEY DOWN BELLY BAR		<i>1984</i>			<i>2034</i>		<i>1649</i>
DEPTH OF TOOLS		<i>891000</i>			<i>894200</i>		<i>897000</i>

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>8910</i> FEET	<i>8942</i> FEET	<i>8970</i> FEET
DEPTH START OF TOUR	<i>8910</i> FEET	<i>8910</i> FEET	<i>8942</i> FEET
FOOTAGE DRILLED	<i>0</i> FEET	<i>32</i> FEET	<i>28</i> FEET

DAY WORK	HOURS				HOURS			
	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM
PUMP		<i>6:30</i>	<i>6:30</i>	<i>4:00</i>	<i>4:00</i>	<i>4:00</i>	<i>4:00</i>	<i>4:00</i>
ROTARY SPEED			<i>55</i>	<i>85</i>	<i>85</i>	<i>80</i>	<i>80</i>	
WEIGHT ON BIT			<i>10</i>	<i>12</i>	<i>12</i>	<i>12</i>	<i>12</i>	
MUD WEIGHT			<i>11.1</i>			<i>11.1</i>	<i>11.1</i>	
VISCOSITY			<i>125</i>	<i>200</i>	<i>215</i>	<i>175</i>	<i>183</i>	
WLF C			<i>5.2</i>			<i>5.2</i>	<i>5.2</i>	
pH			<i>8.5</i>			<i>8.6</i>	<i>8.6</i>	

NO.	SIZE	SERIAL	SIZE KIND AND TYPE	FEET	FEET	FEET
<i>33</i>	<i>6 3/16</i>	<i>71A-31</i>	<i>WEST DOL</i>	<i>11 1/2</i>	<i>8910</i>	<i>8970</i>

CORE NO.	TYPE	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRIVER	<i>A. ROSS</i>	<i>A. CHAMBERS</i>	<i>H. SHAW</i>
DEPT. CLERK	<i>G. LONG</i>	<i>W. DIMIRKO</i>	<i>W. WAGSTAFF</i>
HELPER	<i>A. BENTZ</i>	<i>G. HABER</i>	<i>M. J. JONES</i>
HELPER	<i>J. GARDNER</i>	<i>B. FLITTO</i>	<i>C. SHAW</i>
HELPER	<i>W. KAWCHAK</i>	<i>T. M'CHUGH</i>	<i>J. FIEBER</i>

50

TOUR

Core

Weight

Refrigerator

6 am Amb

Core Comp

Operator

Core Bit

Core Bit

Jars -

Cut core

Daylight Core

38 ft of

1/2 ft of

S O B C W M Shafter CK 47 0-12

OTHER HOLES - LEGALITY
SPK NONE

1971		CHEMICALS ADDED		From	To	Notes
TOUR	TOUR	Amount				
613 FT				1230	1000	By Service, T&AW out Kelly hose - Hang some Break Core + Pipe T&AW IN (Double measure in 5 Break Core 15 studs 1591 out 274 T&AW IN Core 4 spl's in, to 6 feet from bottom. 14' at hard fill
300 FT				1000	230	
87 FT				530	300	
368 FT				300	400	
				400	800	
				800	830	CIRC. + WORK CORE BBL TO BOTTOM. CIRC. + WORK CORE. Kump Bill down to CORE. CUTTING CORE NO 1
730 FT				830	730	
				730	945	
				945	400	
158 FT						CUTTING CORE #1 K 9 Ser CHECK BBL Blow Kelly + Hard Core #1
33 FT				45	915	
649 FT				915	935	
700 FT				935	1200	
TOUR						
0 FEET		Chase	100#	915	935	
12 FEET		Down	20#	935	1200	
8 FEET		Weight	5000#			
HOURS						
10 PM	12:30 PM					

CEMENTING TESTING FISHING SPECIAL JOB DETAILS PLACING ENGINEERING DRAWINGS

Refrigeration Conductor Bbl
6 AM Ambient Temp -27°F Alcohol returns +2°F.

Core Company T.G. Eastland Testers LTD.
Operator Jim Nicholson
Core Bbl - 5 3/4" x 60' Christensen
Core Bit - West Drill
Tars - Bausch - Ross - Manual - 2" I.D. OD 5 3/4"

Cut core #1. 2910 - 2970 - Recovered 60 feet

Daylight Crew - 5 men - 1 hr piece - stayed to measure up casing
38 fts at 7" x 26 1/4" Modified N 80 seamless
172 fts at 7" x 23 1/4" Modified N 80 seamless

W.S. REPORT
0.05
2
20
6 1/2
90
15
260
1 1/2

Lot + Lammily
SIGNATURE COMPLIANCE ENGINEER

TOUR REPORT

FIELD Wildcat CONTRACTOR GP DATE April 9 1971
 WELL NAME N 66° 43' LOCATION SEC N137° 20'

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO <u>86</u>	FT	NO <u>87</u>	FT	NO <u>88</u>	FT
SINGLE	D.P.	NO <u>2</u>	FT	NO	FT	NO <u>1</u>	FT
X-OVER SUB	D.P.		FT		FT		FT
OTHER	D.P.		FT		FT		FT
DRILL COLLARS	D.P.	NO <u>80</u>	FT		FT		FT
DRILL COLLARS	D.P.	NO	FT		FT	NO	FT
BEAMER	D.P.	KIND	FT		FT	KIND	FT
STABILIZER	D.P.	KIND	FT		FT	KIND	FT
JARS	D.P.	KIND	FT		FT	KIND	FT
BUMPER SUB	D.P.		FT		FT		FT
BIT OR CORE BARREL	D.P.		FT		FT		FT
TOTAL D.P. & TOOLS			FT		FT		FT
FEET DOWN BELOW R.B.			FT		FT		FT
DEPTH OF TOOLS			FT		FT		FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<u>8910</u> FEET	<u>8942</u> FEET	<u>8970</u> FEET
DEPTH START OF TOUR	<u>8910</u> FEET	<u>8910</u> FEET	<u>8942</u> FEET
FOOTAGE DRILLED	<u>0</u> FEET	<u>32</u> FEET	<u>28</u> FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 PM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP			<u>6 1/2</u>	<u>6 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>	<u>4 1/2</u>
ROTARY SPEED			<u>65</u>	<u>85</u>	<u>85</u>	<u>85</u>	<u>80</u>	<u>80</u>				
WEIGHT ON BIT			<u>10</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>12</u>				
MUD WEIGHT			<u>11.1</u>				<u>11.1</u>	<u>11.1</u>				
VISCOSITY			<u>225</u>	<u>225</u>	<u>215</u>		<u>175</u>	<u>183</u>				
W.L.F.C.			<u>5.2</u>				<u>5.2</u>	<u>5.2</u>				
pH			<u>8.5</u>				<u>8.6</u>	<u>8.6</u>				
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LENGTH	WEIGHT	DEPTH	TIME
<u>33</u>	<u>6 3/16</u>	<u>71A-31</u>	<u>WEST BIT</u>	<u>11 1/2</u>	<u>5110</u>	<u>8970</u>	<u>60 11 1/2</u>

CORE NO.	NO.	DATE	DEPTH	RECOVERY

SIGNATURE	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<u>J. ROSSIGNOL</u>	<u>A. CHAMIZERS</u>	<u>A. SHAW</u>
DEPT. MGR.	<u>G. LONG</u>	<u>W. DIMITROV</u>	<u>W. WAGSTAFF</u>
OPER.	<u>A. BENZ</u>	<u>G. HAZIBER</u>	<u>M. L. JONES</u>
RECOVER.	<u>J. BRADEN</u>	<u>B. FLATO</u>	<u>C. HASE</u>
RECOVER.	<u>W. KAWCZUK</u>	<u>T. MCNEUREY</u>	<u>J. FIEBER</u>

Core Comp
 Operator
 Core Bit
 Jars -
 Cut core

Daylight Co.
 38 ft of
 1/2 ft of

S O B C W M Shafter CK Y T 0-12

OTHER HOURS - PLACING LIME
WORK DONE

1971	ITEMS CALS ADDED	Amount	Fr m	To	
TOUR			1200	1230	Rig Service, throw out Kelly Hoss - hang some
618 FT			1230	100	Break Core + Casing
300 FT			100	230	TRIP IN (Double Measure in)
87 FT			330	300	Break Core 15 studs 1591 diff BTA
368 FT			300	400	TRIP IN
			400	800	Core 4 spls in, to 6 feet from bottom. 14' of hard fill
			800	830	CORE + WORK CORE BBL TO BOTTOM.
			830	730	CORE + WORK CORE.
			730	945	Hang BBL DOWN TO CORE.
730 FT			945	400	CUTTING CORE NO 1
158 FT					
358 FT					
649 FT					
000 FT			400	915	CUTTING CORE #1
TOUR	Casing	100#	915	930	Rig Ser CHECK BBL
0 FEET	Submer	50#	930	1200	Blow Kelly + Hang BBL #1
2 FEET	Down	20#			
8 FEET	Weight	5000#			

CEMENTING TESTING LINING SPECIALS FOR DETAILS INCLUDING ENGINEERING SUMMARY'S

Refrigeration Conductor Bbl
6:00 am Ambient Temp -27°F Alcohol returns +2°F.

Core Company T.G. Eastland Testers Ltd.
Operator Jim Nicholson
Core Bbl - 5 3/4" x 60' Christenson
Core Bit - West Drill
Tars - Bausch - Ross - Manual - 2" I.D. OD 5 3/4"

cut core #1 8910 - 8970 - Recovered 61 feet

Daylight Crew - 5 men - 1 hr piece - stayed to measure up casing
38 fts at 7" x 26 1/4" Modif N 80 seamless
172 fts at 7" x 23 1/4" Modif N 80 seamless

[Signature]
SIGNATURE COMPANY ENGINEER

40502
TOUR REPORT

CONTRACTOR *GP*

DATE *15*

SOSC W/M

FIELD *WILDCAT* WELL NAME *N 66° 42'* CORW *137* SEC *20'* TWP

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING TOUR OF BITS END NO. *April 8* 1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO <i>86</i>			FT	NO			FT	NO <i>86</i>			FT
SINGLE	E.P.	NO <i>2</i>	<i>8300</i>	<i>87</i>	FT	NO			FT	NO <i>2</i>	<i>8200</i>	<i>87</i>	FT
X-OVER SUB				<i>300</i>	FT				FT			<i>300</i>	FT
OTHER					FT				FT				FT
DRILL COLLARS					FT				FT				FT
DRILL COLLARS					FT				FT				FT
REAMER					FT				FT				FT
STAP LIFTER					FT				FT				FT
JARS					FT				FT				FT
COMPENSATOR					FT				FT				FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D.P. & TOOLS					FT				FT				FT
NETLY DOWN BELOW B.					FT				FT				FT
DEPTH OF TOOLS					FT				FT				FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR			
FOOTAGE DRILLED			

DAY WORK	HOURS	HOURS	HOURS
	2:00 AM	4:00 AM	6:00 AM
	8:00 AM	10:00 AM	12:00 AM
	2:00 PM	4:00 PM	6:00 PM
	8:00 PM	10:00 PM	12:00 AM

PUMP	PSI	
ROTARY SPEED	R.P.M.	
WEIGHT ON BIT	LBS	
MUD WEIGHT	PPG	
VISCOSITY	CP	
W.L.F.C.		

MUD LEVEL IN TANKS		FEET

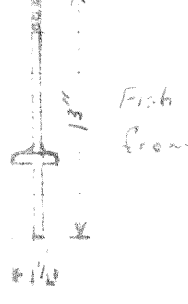
NO.	SIZE	SERIAL	BIT KIND	NO. OF TOOTH	NO. OF TOOTH	NO. OF TOOTH
<i>33</i>	<i>6 3/4</i>	<i>71A31</i>	<i>Westal Diamond Core</i>			

CURE	NO.	NO.	DATE	TIME	TIME	TIME

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>J. Peterson</i>	<i>A. Chambers</i>	<i>A. Skinner</i>
DERRICKMAN	<i>E. Long</i>	<i>W. Demacko</i>	<i>W. Wagstaff</i>
HELPER	<i>A. Benz</i>	<i>G. Haberer</i>	<i>M. Lyons</i>
HELPER	<i>J. Gardner</i>	<i>J. Platte</i>	<i>J. Tolson</i>
HELPER	<i>W. Krauschuk</i>		<i>C. Chase</i>
FIREMAN			
TOOL PUSHER			

*Double Tally
 S.H.M.
 Board
 D.H.M.
 Dropped seal
 at top of
 Ran in well
 at 5000 feet
 encountered
 pop valve st
 plugged w*

*Control finger
 Refrigeration
 10 AM - 11 AM*



SOBC WM SHARPEL OK 4T 0-22

OTHER HOURLY OPERATIONS & WORK DONE

1971		CHEMICALS ADDED		From	To	OTHER HOURLY OPERATIONS & WORK DONE
TOUR	TOUR		Amount			
			1200	345		Heat bit #32 (measured out). Rig Service, Close Blows Long Pick up a stack of 606 Bbl Run in w/DC Rig Service TOTO Bbl Slip & Cut 63' D&I Line
			345	400		
			400	6 ⁰⁰		
			6 ⁰⁰			
87			700	700		
02			700	8 ⁰⁰		
						Run in & break circulation at 5000' run to within 30 feet of bottom pulled up fully could not break circulation Try to break circulation Pull 10 stands Try to break circulation Rig Service & BCP Heat lost string Heat not full Undrig Core 2Bbl - 2000' - 2000' - Rig Closure - 2000' - 2000' - Rig Slow Double Measure to 5000' - 5000' - 5000'
			8 ¹⁵	11 ⁰⁰		
			11 ⁰⁰	11 ⁴⁵		
			11 ⁴⁵	12 ¹⁰		
			12 ⁴⁵	1 ³⁰		
			1 ³⁰	1 ⁴⁵		
			1 ⁴⁵	4 ⁰⁰		
			4 ⁰⁰	6 ⁰⁰		
			6 ⁰⁰	8 ⁰⁰		
			8 ⁰⁰	12 ⁰⁰		

Double Tally:

S.H.M 8923 16
Board 8922 32
D.H" 0.84 - No corr made

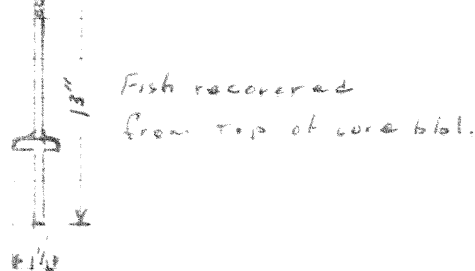
Afternoon 4 men - 2 hr apiece - insulate mud tanks
Daylights 4 men - 1 hr apiece - unload 7" casing

Dropped survey bbl for tripping out bit #32 - hung up at top of drill collars by steel finger from pipe racker.
Ran in with bit #33 - diamond core bit - broke circulation at 5000 feet - good returns - ran to 30' from bottom - no fill encountered - could not break circulation - pulled out - recovered pop valve stem from top of ball seat of inner bbl. Circulating ports plugged with shale - no shale below ball seat in inner bbl.

Steel finger off pipe stand recovered from top of drill collars

Refrigeration Conductor bbl

10³⁰ AM Ambient Temperature -19° Alcohol Returns +6"



Lo J. J. J. J.
SIGNATURE COMPANY INCORP.

440012
TOUR REPORT

FIELD **WILDCAT** WELL NAME **N 66° 42'** CONTRACT NO. **6137** WELL NO. **20** DATE **April 7** 1971

SOBE
CELL
WT MAT
CAUSTIC
SPERSENA
WATER

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	NO. 87	8232	70	NO. 87		NO. 87	
SINGLE	NO.			NO. 1	826.442	NO. 1	826.442
X-OVER SUB	7		300		300		300
OTHER DRILL COLLARS	7		613.68		613.68		613.68
DRILL COLLARS	NO. KIND			NO. KIND		NO. KIND	
REAMER	NO. KIND			NO. KIND		NO. KIND	
STAR-LIZER	NO. KIND			NO. KIND		NO. KIND	
JARS	NO. KIND			NO. KIND		NO. KIND	
BUMPER SUB	NO. KIND			NO. KIND		NO. KIND	
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS		8849	38	8881	10	8881	10
KELLY DOWN - BELOW RB		296	2	2890		2890	
DEPTH OF TOOLS		8879	00	8910	00	8910	00
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		8879	FEET	8910	FEET		
DEPTH START OF TOUR		8841	FEET	8879	FEET	8910	FEET
FOOTAGE DRILLED		38	FEET	31	FEET		

	DAY WORK							
	2:30 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM
PUMP	6 ³ 1250	6 ³ 1250	6 ³ 1300	6 ³ 1600	6 ³ 1000	6 ³ 1000		6 ³ 1000
ROTARY SPEED	80	80	80	80	80	80	80	
WEIGHT ON BIT	35	35	35	35	35	35	35	
MUD WEIGHT	11.0	11.0	11.1	11.1	11	11		11.2
VISCOSITY	250	220	225	220	225	210		250
W.L.F.C.								
pH								8.5
MUD LEVEL IN TANKS								

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FEET	FEET	FEET
32	8 7/8	30486	HTC XDV	3 1/2	8809	8910 101

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	J. PETERSEN	A. CHAMBERS	H. SK. NIELSEN
DEWICK/ROTOR	G. LONG	W. DIWIRKO	W. WASTHAGEN
HELPER	J. GLANAN	G. HABIER	R. LYONS
HELPER	W. KRAWCHUK	A. BIENZ	I. FIEBER
HELPER		J. FLATO	
FIREMAN			
TRUCK DRIVER	James [Signature]		

Drilled
3E Stan
of fill o
Tripping o
4 men of ca
mud tank
3 men att
unload 3 1/2
Refrigerator
8:30 Am

SOBC WM SHARPER CR QT 0-22

OTHER HOURLY OPERATING COSTS
WORK NONE

1971	TOUR	AMOUNTS ADDED	From	To	
			12 ⁰⁰	300	Drilling
			3 ⁰⁰	315	Rig Service & Logs
			215	400	Drilling
4 2 FT	CELL	1500 ⁰⁰	400	430	Change Gland Packing in Pump
0 0 FT	CAUSTIC	50 ⁰⁰	430	500	Drilling
	SPEKSENA	50 ⁰⁰			
6 8 FT	WATER	200 ⁰⁰			
			8 ⁰⁰	9 ³⁰	DRILLING.
			9 ³⁰	10 ⁰⁰	RIG SERVICE + 300 ⁰⁰ RIG SERVICES Kelly
			10 ⁰⁰	10 ⁰⁰	COCK CROWN O MATR + BIPINAKS
			10 ⁰⁰	2 ¹⁵	DRILLING
			2 ¹⁵	3 ¹⁵	CIRC W PIPE.
			3 ¹⁵	4 ⁰⁰	HOIST (DUMMIE TRIP.)
1 0 FT					
1 9 0 FT					
0 0 0 FT	TOUR		4 ¹⁰	7 ³⁰	Dummy Trip 38 STONES
			7 ³⁰	7 ⁴⁵	SON P. & CHECK 300 ⁰⁰
			7 ⁴⁵	8 ⁰⁰	FILL UP CIR
			8 ⁰⁰	10 ⁰⁰	Circ
			10 ⁰⁰	10 ⁰⁰	DROP SWAVEY
			10 ⁰⁰	12 ⁰⁰	Blow Lines, TAKE OFF Kelly Hoist
					Hoist

LEARNING TABLE - RECORD OF ALL OPERATIONS - TO BE MAINTAINED AT ALL TIMES

Drilled to 8910 - circulated 1 hour - made 38 stand dummy trip - no tight spots or bridges - 15' of fill on bottom - circulated 2 1/2 hours - started tripping out to core

4 men of daylight crew worked over for 4 hours apiece to insulate between mud tanks & pump - used 200 lbs saw dust

3 men afternoon crew worked 1 hour apiece overtime to help unload 3 1/2 drill pipe & drill collars brought in by Kays Trucking

0.05
81
5 1/2
7.0
15
TR.

Refrigeration Unit
8³⁰ AM Ambient Temp -4°F Alcohol Returns +12°F

W. F. J. J. J.
SIGNATURE COMPANY ENGINEER

Yukon TOUR REPORT

CONTRACTOR **G.P.**
 WELL NO. **W137** DEPTH **20'** TWP

REF NO. **15**

303C

FIELD **Wildcat** WELL NAME **N 66° 42'**

DATE **April 6 1971**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	86	NO		NO 86		NO 86	
SINGLE	1	NO	817394	NO 1	817394	NO 2	820087
X OVER SUR			300		300		300
OTHER							
DRILL COLLARS	7	20	61368		61368		61368
DRILL COLLARS		NO				NO	
REAMER		KIND				KIND	
STABILIZER		KIND				KIND	
JARS		KIND				KIND	
BUMPER SUB							
BIT OR CORE BARREL							
TOTAL DP & TOOLS					879562		881755
KELLY DOWN BELOW RB					1838		2345
DEPTH OF TOOLS					880900		884100

C.M.C.
 Del
 Weight Mot. 13
 idata

DAY WORK		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEP' END OF TOUR		8809	FEET	8800	FEET	8841	FEET
DEPTH START OF TOUR			FEET	8800	FEET	8809	FEET
FOOTAGE DRILLED			FEET	0	FEET	32	FEET

CAUSTIC
 SPERSING

NO.	SIZE	SERIAL	BIT KIND	ANVIL	TYPE	FEET	IN	OUT
32	8 3/4	30486	HTC	XDV	3/13	5	8809	8841 32 64

Cleaned &
 Tally out

NO.	SIZE	SERIAL	BIT KIND	ANVIL	TYPE	FEET	IN	OUT
							110	105
							220	14
							117	30
							73	5 1/2
							87	9.0
								15
								300

Broke cir
 3 samples T

No stabiliz

Refrigeration
 4 AM An

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed Krawchuk	J Peterson	A CHAMBERS
DEERIKMAN	Les Whiting	Olson	W DIMITROV 6700 8800 1/4
HELPER	Danny McNaig	J GERRARD	G HABIBI
HELPER	Jim Wandler	W KRAWCHUK	A BENZ
HELPER	Glenn Jackson		J FLATO
TRUCK DRIVER			
TRUCK DRIVER			

High clut

5013C W M Shetter CK YT 0-22

OTHER HOLES OPERATING DEEP WORK DONE

TIME	DEPTH	TOOL	AMOUNT	FROM	TO	REMARKS
6:19	71	TOUR		1200	445	CLEAN IN 8430
		C.M.C.	75#	445	500	RIG SERVO BOIPS
0:87	87	Del	600#	500	600	CLEAN IN FROM 8430 TO 8809 8809
3:00	100	Weight M.O.T.	15,400#	600	700	CIRCU W PIPE TO HOIST
		W/LIN		700	800	HOISTING
3:68	68					
		TOUR		800	815	HOISTING
				815		RIG SERVICE & BOIPS CHANGE
					900	FOOT THROTTLE CONTROL
				900	1245	FINISH HOISTING (MEASURE OUT)
				1245		CLOSE BLIND LAMS, CHANGE BITS
					130	RUN IN W/DC
7:55	55			130	230	SLIP & CUT 62' DELG LINE
8:45	45			230	400	TAP IN W/PIPE
1:00		TOUR				
		CAUSTIC	25#	400		FINISH RUNNING IN W/ BRK CIRC
		SPEARS	50#		600	AT 4,000' + 7500'
1:1				600	615	RIG SERVO + BOIPS
9:1				615	700	CLEAN IN 90' (10' FILL) ON BOTTOM
2:1				700	1200	DILLING

CEMENTING, TESTING, LOGGING, RECORDS OR DETAILS INCLUDING ENGINEER'S COMMENTS

Cleaned & treated to bottom - 8809 - Hoisted bit # 21
 Tally out SLM 8831.87
 Board 8831.84
 Diff" 0.13 - No correction made

Broke circulation at 4000' and 7500' - rotate last 3 singles to bottom - 10' fill.

No stabilizers or reamers in string

05
14
30
5.2 1/2
9.0
15
300

Refrigeration Condenser 1261
 4 AM Ambient temp -6°F Alcohol returns +16°F

1/4 High clutch out in compound.

L. F. Gumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP**

RIG NO **15**

FIELD **WILD CAT** WELL NAME **CHYT 422** LSD **N-06** SEC **42** TWP **N37** R0P **20** W

SOBC

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **APRIL 5**

1971

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR													
STANDS	D P	NO			FT	NO			FT	NO	86			FT									
SINGLE	D P	NO			8169	01	FT	NO			8169	01	FT	NO	8169	01	FT						
X-OVER SUB	7 O D				30	0	FT				30	0	FT			30	0	FT					
OTHER	O D						FT						FT					FT					
DRILL COLLARS	207 O D				6138	9	FT				6138	9	FT					6138	9	FT			
DRILL COLLARS	O D	NO					FT	NO					FT	NO							FT		
REAMER	O D	KIND					FT	KIND					FT	KIND							FT		
STABILIZER	O D	KIND					FT	KIND					FT	KIND							FT		
JARS							FT						FT								FT		
BUMPER SUB		KIND					FT	KIND					FT	KIND							FT		
BIT OR CORE BARREL							FT						FT								FT		
TOTAL D P & TOOLS					8788	96	FT				8788	96	FT								8788	96	FT
KELLY DOWN (BELOW R B)					2004		FT				2004		FT								2004		FT
DEPTH OF TOOLS					8809	00	FT				8809	00	FT								8809	00	FT
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR													
DEPTH END OF TOUR							FEET				8809		FEET										FEET
DEPTH START OF TOUR					8809		FEET			8809		FEET			8809		FEET						FEET
FOOTAGE DRILLED							FEET			0		FEET					FEET						FEET

TOUR
Dewicyle
H.L.
Weight Mat.
Water

TOUR
G

TOUR
GEL
BARITE
WATER

	DAY WORK	HOURS											
		2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	sp m p.s.i.	64 1500	64 1600	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500	64 1500
ROTARY SPEED	R P M											78	28
WEIGHT ON BIT	M lbs.											5	5
MUD WEIGHT	lb/gal	10.7	10.4	10.9								10.3	10.3
VISCOSITY	sec/qt	214	464	489								300	325
W L F C	c.c. 32nd												5.6/2
pH													9
MUD LEVEL IN TANKS	Ft. Ins.												

NOTE WORK PIPS

Pipe 76
at 2460
8100 -
out to

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZE IN 1/32	TOTAL HOURS	FROM	TO	FEET	FT HR	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	FHP	ps	FHP	ps	Time	12
FROM		ISI	mins	FHP	ps	FHP	ps	Mod Wt	110
TO		VO	mins	FHP	ps	FHP	ps	Visc	275
Recovery		FSI	mins	FHP	ps	FHP	ps	AV	115
HOURS		RECOVERY			ps	FHP	ps	PV	60

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	E. KRAWCHUCK	J. PETERSON	A. CHAMBERS	Kind	Depth	Reading
DERRICKMAN	L. WHITING	G. Long	G. DRUMKO	Tolco	0.8 (0)	1 1/4
HELPER	D. McLUKIG	Jim Graham	G. HARRIS			
HELPER	J. WANDLER	W. KRAWCHUK	M. BIRNIZ			
HELPER	G. JACOBSON		J. FLATO			
FIREMAN						
FOOL PUSHER						

8-00
Ambient

SOBC SCHAEFFER CKYT 3-22

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
DN TOUR	FT	Kind	Amount			
		TOUR 1		12 ⁰⁰	12 ¹⁵	RIG SERU BOPIS
9 01	FT	Dewicide	20 [#]	12 ¹⁵	7 ³	CLEAN IN FROM 7951 TO 8122
3 00	FT	Oil	200 [#]		8 ⁰⁰	HOUSING 38 STANDS
	FT	Weight Mat.	300 [#]			
	FT	Water				
3 89	FT					
	FT	TOUR 2		8 ⁰⁰	9 ⁴⁵	FINISH HOUSING TO 4750
	FT	Oil		9 ⁴⁵	10 ³⁰	CORE & WORK PIPE @ 4750
	FT			10 ³⁰	10 ⁴⁵	Rig Service & Pops
	FT			10 ⁴⁵	12 ⁰⁰	PIPE & WORK PIPE
	FT			12 ⁰⁰	11 ¹⁵	TRIP IN TO 8122
8 96	FT			11 ¹⁵	3 ⁰⁰	LINE & TRY TO CLEAN HOLE
0 04	FT			3 ⁰⁰	4 ⁰⁰	TAKE ONLY 1591, WORK PIPE 70'
9 00	FT	TOUR 3		4 ⁴⁵	5 ⁰⁰	PIPE W/ PIPE
	FT	GEL	400 [#]	5 ⁰⁰	5 ¹⁵	RIG SERVO + BOP.S
	FEET	BARITE	24000 [#]	5 ¹⁵	12 ⁰⁰	CLEAN IN I-ROOM 8122
	FEET	WATER	30 Bbls			TOO 8430
	FEET					6 1/2 HOURS
						Bot 31
						262944 - 46 3/4 HRS

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Pipe Targuing severely at 8120 - Pulled up to 4800 - Tight spots at 7460 and 6900. Circulated at 4800 - run in to 8100 - hole clear - hit fill at 8100. Reamed and cleaned out to 8430 in 10 1/2 hours.

4 men - 1 hour a piece - daylight four - pile mat

REPORT
 0.10
 Gel 20
 Min Gel 41
 FC 5.6/2
 9.0
 14
 p.p.m. 300
 Reading 1 1/4

8⁰⁰ Conductor Bit Retrograde
 Ambient temperature + 1°F Alcohol returns + 19°F

L. J. Gumbert
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP** RIG NO **13**

FIELD **WILDCAT** WELL NAME **CTYTH22** LSDN-**44** SEC **12** TWP **37** R# **20** W

SUBC 50
MUD ...

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **April 4 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR			TOUR
STANDS	D.P.	NO. 85			NO. 85			NO.			wight
SINGLE	D.P.	NO. 1	816901	FT	NO. 1	816901	FT	NO.	816901	FT	
X OVER SUB	O.D.		300	FT		300	FT		300	FT	
OTHER	O.D.			FT			FT			FT	wight
DRILL COLLARS	O.D.	207	61389	FT		61389	FT		61389	FT	
DRILL COLLARS	O.D.	NO		FT	NO		FT	NO		FT	
REMER	O.D.	KIND		FT	KIND		FT	KIND		FT	
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND		FT	
JARS		KIND		FT	KIND		FT	KIND		FT	
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT	
BIT OR CORE BARREL				FT			FT			FT	
TOTAL D.P. & TOOLS			878894	FT		878896	FT		878896	FT	
KELLY DOWN (BELOW R.B.)			2004	FT		2004	FT		2004	FT	
DEPTH OF TOOLS			880900	FT		880900	FT		880900	FT	
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR			TOUR 2
DEPTH END OF TOUR				FEET	8809		FEET			FEET	BELL
DEPTH START OF TOUR				FEET			FEET	8809		FEET	W/MAT.
FOOTAGE DRILLED				FEET	0		FEET			FEET	TOUR 3

TOUR 2
BELL
W/MAT.

TOUR 3
CALL
BARGE
WATER

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP					13:00	15:00	18:00	15:00	13:00	13:00	15:00	18:00
ROTARY SPEED					64	64	64	64	64	64	64	64
WEIGHT ON BIT					cleaning in H/C							
MUD WEIGHT		10.6		10.7	10.8	10.7	10.8	10.8	10.7	10.8	10.6	
VISCOSITY		140		254	240	170	200	260	185	240	260	
W.L.F.C.									9.5	9.2		
pH									9.5	9.5		
MUD LEVEL IN TANKS												

Reamed
down stand
stand and

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 3/32	TOTAL HOURS	FROM	TO	BIT CONDITION
31	8 3/4	XU	HW XU	3-13				
		23214						

TYPE	No.	No.	DST No.	FROM	TO	MUD ENGINEERS REPORT		
PREFLOW				mins. I.F.P.	ps. I.F.P.	Time	AM	AK
ISI				mins. F.H.P.	ps. F.H.P.	Mud Wt.		Int. Gr.
VO				mins. I.S.P.	ps. G.T.S.	VSL		W.L.F.C.
FSI				mins. F.S.P.	ps. F.T.S.	AV		pH
RECOVERY						P.V.		Sp. G.
						CA. Sp. G.		Gr. Sp. G.

Re-irradiation
9:00 AM - AM
2:00 PM
10 PM

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	ED. KRAWCHUCK	J. PETERSON	A. CHAMBERS	Kind	Depth	Reading
DERRICKMAN	L. WHITING	Chong	W. DIRMIRKO			
HELPER	D. MCVAIG	J. GILMAN	G. NAJIB	8800	1 1/4	
HELPER	J. WANDLER	W. KRAWCHUCK	N. BUNZ			
HELPER	G. JOHNSON		J. FLATO			
FIREMAN						
TOOL PUSHER	James Johnson					

SORC SHEET FOR CRT 0-22

1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
DN TOUR		Kind	Amount			
	FT	TOUR 1		1200	445	CLEAN TO BITM FROM 6610
301	FT	WIGHT M.I.	22,100	445	500	RIG SERU TOOLS
300	FT		1400	500	800	CLEAN IN 7550
	FT	Water	100 bbls			
389	FT					
	FT	TOUR 2		800	815	Ry Seville & Bops.
	FT	GEL	5200	815	400	CLEAN IN Hole FROM 7180 - 7556
	FT	WT MAT.	13000			
896	FT					
004	FT			4 ^{1/2}	12	RIG SERVO - SUP
900	FT	TOUR 3		4 ^{1/2}	12 ^{1/2}	CLEAN IN FROM 7556
	FEET	GEL	5200		12 ^{1/2}	TO 7951
	FEET	BARITE	6400			WT # 31
	FEET	WATER	50 bbl			WOMED 2150 FT IN 31 HRS
	HOURS					12 MIDNIGHT. APRIL 4 th .
PM	12:00 P.M.					

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Reamed from 6610 to 7950 - 23 1/2 hours. Have to break down stands to get pipe in hole - run discussion complete stand and/or double without hitting fill.

CONDITION

REPORT

Pre-irradiation Conductor bbl.

9 ⁰⁰ AM	- Ambient Temp	-2°F	Alcohol Returns	+20°F
2 ⁰⁰ PM	"	+4°F	"	+26°F
10 PM	"	0°F	"	+20°F

DRD Reading

L. F. Greenleaf
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **WILDCAT** WELL NAME **CKYT #22** LSD **N-66** SEC **42** TWP **W137** Rge **20** W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 M'DNIGHT **April 3** 1971

SOB C
 MUD CHEMICALS
 TOUR 1
CAUSTIC GEL
WIGHT MAT.
WATER

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO. 8 FT	NO. 8 FT	NO. 8 FT	NO. 8 FT
SINGLE D.P. NO. 1 FT	NO. 1 FT	NO. 1 FT	NO. 1 FT
X OVER SUB O.D. 300 FT	300 FT	300 FT	300 FT
OTHER O.D. FT	FT	FT	FT
DRILL COLLARS 20.7 O.D. 61389 FT	61389 FT	61389 FT	61389 FT
DRILL COLLARS O.D. NO. FT	NO. FT	NO. FT	NO. FT
REAMER JUNK SUB KIND 304 FT	KIND FT	KIND FT	KIND FT
STABILIZER O.D. KIND FT	KIND FT	KIND FT	KIND FT
JARS KIND FT	KIND FT	KIND FT	KIND FT
BUMPER SUB KIND FT	KIND FT	KIND FT	KIND FT
BIT OR CORE BARREL FT	FT	FT	FT
TOTAL D.P. & TOOLS 878896 FT	878896 FT	878896 FT	878896 FT
KELLY DOWN (BELOW R.B.) 2004 FT	2310 FT	2310 FT	2310 FT
DEPTH OF TOOLS 880900 FT	880900 FT	880900 FT	880900 FT

TOUR 2
 TOUR 3

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	8809 FEET	8809 FEET	8809 FEET
DEPTH START OF TOUR	8809 FEET	8809 FEET	8809 FEET
FOOTAGE DRILLED	0 FEET	0 FEET	0 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP S.P.M. P.S.I.	64	64	64									
ROTARY SPEED R.P.M.												
WEIGHT ON BIT M. lbs.												
MUD WEIGHT lb/gal	10.5	10.5	10.5									
VISCOSITY spc. qt.	220	220	259									
W.L./F.C. c.c./32nd			3.2									
p.H.			9.0									
MUD LEVEL IN TANKS Ft.-Ins.												

Reamed w
 down gun
 reamed T

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
30	8 3/4	23209	HTC 1U	3/16	21	5789	6320		3-1-1
31	8 3/4	23216	XV	3-13		5981	6610		12

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins. I.H.P.	ps. I.F.P.	ps. Time	AM	PM	AK
FROM		I.S.I.	mins. F.H.P.	ps. I.F.P.	ps. Mud Wt.	10.5		Int. Ge. 1.8
TO		V.O.	mins. I.S.P.	ps. G.T.S.	ps. Visc.	215		10 Min. Ge. 2.8
Recovery		F.S.I.	mins. F.S.P.	ps. F.T.S.	ps. AV	8.7		W.L.F.C.
HOURS		RECOVERY			ps. PV	3.0		PH 9.0
					ps. VP	7.4		Send
								CA. app
								CL ppm

8 am - Rotary
Ambien
Alcohol

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed Krauwuck	J. Peterson	Benamizix
DERRICKMAN	L. Whiting	B. Long	W. Drivinko
HELPER	D. McQuig		B. Habier
HELPER	J. Wanchek	J. Graham	D. Brnz
HELPER	B. Jacobson	W. Krauwuck	J. F. H. T. O.
FIREMAN			
TOOL PUSHER	J. Graham		

DEVIATION RECORD		
Kind	Depth	Reading

SOBC WM Shaeffer CK YT 0-22

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
ON TOUR	FT	Kind	Amount			
		TOUR 1		1200	245	CLEAN IN FROM 5920
7 01	FT	CRUSTIC GEL	100 ^W	245	300	RIG SERV BOPS
8 00	FT	WIEGHT MAT.	1900 ^W	300	800	CLEAN IN TO 6320
	FT	Water	3600 ^W			
	FT		1000 lbl			
3 8 9	FT					
	FT	TOUR 2		800	830	Circ Hole
	FT			830	1215	HOIST BIT # 30
	FT			1215		K9 Service - Close BLIND RANS
	FT				1245	CHANGE BITS Lay Down JUNE SUB
	FT			1245		TRIP IN w/BIT #31 Lay Down is 5915
8 96	FT			330	400	HIT BRIDGE @ 5981'
8 10	FT			330	400	PICK UP Kelly & fill Pipe
9 00	FT	TOUR 3		400	745	Clean to Bottom From 5981
	FEET			745	800	RIG SERV + BOPS
9	FEET			800	1200	Clean in From 5981 To 6610
	FEET					7 3/4 HRS RIGGED 639ft.
	HOURS					
PM	12 00 PM					

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

2 62
7 10 5/10
Reamed w/bit # 30 from 5189 to 6320 - Tripped out - laid down junk sub - ran in with bit # 31 - hit fill at 5981 reamed to 6610 in 7 3/4 hours.

CONDITION

REPORT

Get 7 5
Min Get 3 5

9.0 8⁰⁰ AM - Retrievision Conductor Pipe 8²⁰ AM
Ambient Temp - 30°F -1°F
Alcohol Returns 0°F +18°F

RD Reading

L.F. Linnick
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR

B.P.

RIG NO

12

FIELD WILDCAT WELL NAME CKTY 4 3 2 LSD N-66 SEC 42 TWP W 187 Rpt 20 W

5060 5

DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT APRIL 2 1971

MUD CHEMICALS A

Table with columns: DRILLING ASSEMBLY, END OF MORNING TOUR, END OF DAYLIGHT TOUR, END OF AFTERNOON TOUR. Rows include STANDS, SINGLE, X OVER SUB, OTHER, DRILL COLLARS, REAMER, STABILIZER, JARS, BUMPER SUB, BIT OR CORE BARREL, TOTAL DP & TOOLS, KELLY DOWN, DEPTH OF TOOLS.

Table with columns: TOUR 1, TOUR 2, TOUR 3. Rows include GEL, BARK, Kelson.

Table with columns: TOUR, MORNING TOUR, DAYLIGHT TOUR, AFTERNOON TOUR. Rows include DEPTH END OF TOUR, DEPTH START OF TOUR, FOOTAGE DRILLED.

Table with columns: TOUR 3. Rows include GEL, BARK, Kelson.

Table with columns: DAY WORK, HOURS. Rows include PUMP, ROTARY SPEED, WEIGHT ON BIT, MUD WEIGHT, VISCOSITY, W.L.F.C., p.H., MUD LEVEL IN TANKS.

Trip at Tight H.T. in 13" hole. Refrigeration. Ambient. Alcohol Ref.

Table with columns: NO., SIZE, SERIAL, BIT KIND AND TYPE, JET SIZES, TOTAL HOURS, FROM, TO, FT HR, BIT CONDITION. Rows include 29 8 3/4 912087, 30 8 3/4 23209.

Table with columns: CORE No., No., DST INJ, FROM, TO, MUD ENGINEER'S REPORT. Rows include TYPE, FROM, TO, Recovery, HOURS.

Table with columns: SIGNATURES, MORNING TOUR, DAYLIGHT TOUR, AFTERNOON TOUR. Rows include DRILLER, DERRICKMAN, HELPER, FIREMAN, TOOL PUSHER.

DEVIATION RECORD. Kind, Depth, Reading. Last down. Picked up. Described.

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **WILCOAT** WELL NAME **CKTV 8-22 LSD N-66 SEC 42 TWP (WB) Rge 20 W**
 137 20
APRIL 1 1971

SOB.C S
 MUD CHEMICALS

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO 85	804189	FT	NO 85		FT	NO 85		FT
SINGLE	D.P.	NO		FT	NO 2	810551	FT	NO 2	816901	FT
X-OVER SUB	7 O.D.		300	FT		300	FT		300	FT
OTHER	O.D.			FT			FT			FT
DRILL COLLARS	20.7 O.D.		61389	FT		61389	FT		61389	FT
DRILL COLLARS	O.D.	NO		FT	NO		FT	NO		FT
REAMER	O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER	CHRIST O.D.	8 3/4	462	FT		462	FT		462	FT
JARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			866340	FT		872702	FT		879052	FT
KELLY DOWN (BELOW R.B.)			1722	FT		2198	FT		748	FT
DEPTH OF TOOLS			868062	FT		874900	FT		880800	FT

TOUR 1
KELZAN

TOUR 2
BELL
SPERENE
KELZAN

TOUR 3
GEL

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	s.p.m. 63 p.s.i. 2050	63 2050	63 2050	63 2050	63 2050	63 2050	63 2050	63 2050	63 2050	63 2050	63 2050	63 2050
ROTARY SPEED	R.P.M. 62	62	62	62	62	62	62	62	62	62	62	62
WEIGHT ON BIT	M.lbs. 35	35	35	35	35	35	35	35	35	35	35	35
MUD WEIGHT	lb/gal 10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
VISCOSITY	sec/qt 114	114	122	125	110	100	110	110	110	106	100	100
W.L.F.C.	cc. 32nd 5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
p.H.	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	9.5	9.5	8.5	8.5
MUD LEVEL IN TANKS	Ft. Ins.											

Mud line
 Refrige. st...
 Ambient T...
 Alcohol veru...

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 3/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
29	8 3/4	912087	SEC 588	5/16	50 1/2	8399	8808	409 8	in

CORE No.	No.	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	8 AM	Alk	0.10
					Mud Wt	10.3	Int. Gel	15
					Visc	127	10 Min. Gel	49
					W.L.F.C.	5.0/2		
					pH	9.0		
					Sand	11		
					CA ppm	95		
					CL ppm	300		

Devil...
 Christensen

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	Ed Krawchuk	J. Petersen	A. Chambers	Kind	Depth	Reading
DERRICKMAN	L. Whiting	G. Long	W. Demirko	To/Co	8545	1 1/2
HELPER	D. Mucuria	B. Anderson	G. Habier			
HELPER	J. Wandier	J. Graham	H. Birn			
HELPER	G. Jacobson	W. Krawchuk	J. Flato			
FIREMAN						
TOOL PUSHER						

SOB.C SHAEFFER CKV TO-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971
ON TOUR
901 FT
300 FT
389 FT
462 FT
052 FT
748 FT
800 FT
TOUR
88 FEET
9 FEET
9 FEET
HOURS
12:00 P.M. 12:00 P.M.
2 62
35 35
3
5
CONDITION
TEST REPORT
IK 0-10
ht Gel 15
D Min Gel 49
L F C 50/2
H 9.0
ong 11
A ppm 97
L ppm 300
RECORD
tn Reading
5 1 1/2

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				
Kelzan	150 [#]	1200 315 330	315 330 800	Drilling RIG SER BULL Drilling
TOUR 2				
BELL	1000	800 1030	1030 1045	Drilling Rig Service & Bop Drilling
SPERENE	50 ^{lb}	1045		
Kelzan	100 [#]			
TOUR 3				
GEL	600 [#]	400 520 542 1000	520 542 1000 1012 1200	Drilling RIG SERVICING - 1301's Drilling Circ W / P1122 Drilling

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES - 30° clear color

Mud line temperature 110°F

Refrigeration condenser bbl - 8^{pm}
Ambient Temp - 9°F
Alcohol returns + 21°F

Desilter not on stream

Christensen Stabilizer #454: 23 hrs Cumulative 634 hrs
" " #453: Not in story " 560^{3/4} hrs

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **C.P.**

RIG NO **15**

FIELD **WILDCAT**

WELL NAME **CKVT #22**

LSD **N-64** SEC **42** TWP **31**

RUN **20** W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

MARCH 31

1971

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS .. D.P.	NO. 83	785252 FT	NO. 83		NO. 84	
SINGLE .. D.P.	NO.		NO. 2	791059 FT	NO. 1	797880 FT
X-OVER SUB .. 7 O.D.		300 FT		300 FT		300 FT
OTHER .. O.D.						
DRILL COLLARS 20-7 O.D.		61389 FT		61389 FT		61389 FT
DRILL COLLARS .. O.D.	NO.		NO.		NO.	
REAMER .. O.D.	KIND		KIND		KIND	
STABILIZER CHRIST O.D.	8 3/4	462 FT		462 FT		462 FT
JARS	KIND		KIND		KIND	
BUMPER SUB	KIND		KIND		KIND	
BIT OR CORE BARREL						
TOTAL D.P. & TOOLS		847403 FT		853710 FT		860031 FT
KELLY DOWN (BELOW R.B.)		4032 FT				1169 FT
DEPTH OF TOOLS		851425 FT				861250 FT

TOUR 1
Del 10
KALCANAL 15

 TOUR 2
8
Gel 1000' 8
Weight 10000' 10
Spacers 100' 10
Caustic 50' 10
Water 50 BBLs 10

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	8514 FEET	8564 FEET	8612 FEET
DEPTH START OF TOUR	8451 FEET	8514 FEET	8564 FEET
FOOTAGE DRILLED	63 FEET	50 FEET	48 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900	63 / 1900
ROTARY SPEED	62	62	62	62	62	62	62	62	62	62	62	62
WEIGHT ON BIT	35	35	35	35	35	35	35	35	35	35	35	35
MUD WEIGHT	101	101	101	101	101	101	102	102	101	101	102	102
VISCOSITY	100	94	95	92	95	147	120					
W.L.F.C.	60	60	60	60	60	60	60	60	60	60	60	60
p.H.	7	90	90	90	10	90	10	10				
MUD LEVEL IN TANKS												

10:00 pm - **Ac**
Ambien
Alcohol
Flow line

Could not
make tool
survey barrel

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
29	8 3/4	912037	SEC 588	1/4 1/16		8399		7.2	D.P.L.G.

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT	
TYPE		PREFLOW	mins	IHP	ps	I.F.P.
FROM		ISI	mins	FHP	ps	F.F.P.
TO		VO	mins	ISI.P	ps	G.T.S.
Recovery		FSI	mins	FSI.P	ps	F.T.S.
HOURS		RECOVERY			ps	F.T.S.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	Ed Krawchuk	J Peterson	A Chambers	Kind	Depth	Reading
DERRICKMAN	L Whiting	G Long	W Demirko	10760	8399	2
HELPER	D McQuain	B Anderson	G Haber	10760	8545	1 1/2
HELPER	J Wandtor	W Krawchuk	A Bierz			
HELPER	B Jacobson	J Graham	J Flato			
FIREMAN						
TOOL PUSHER	Jama					

SUBC WM SHAEFER CKV10-22

MUD CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL	
DATE	Amount	From	To	WORK DONE
1971				
TOUR				
80 FT				
100 FT				
389 FT				
462 FT				
531 FT				
169 FT				
250 FT				
TOUR				
4 FEET				
4 FEET				
8 FEET				
HOURS				
12:00 P.M.				

MUD CHEMICALS ADDED		OTHER HOURLY OPERATING DETAIL		
DATE	Amount	From	To	WORK DONE
TOUR 1				
Oil	1000 [#]	12 ⁰⁰	12 ¹⁵	RIG SERVO - BUILD
KALCANAL	150 [#]	12 ¹⁵	1 ¹⁵	DRILLING
		1 ¹⁵	1 ⁴⁵	CHECK MOUNTS
		1 ⁴⁵	2 ⁴⁵	DRILLING
		2 ⁴⁵	3 ⁰⁰	CIRC TO RUN WIRELINE SURVEY
TOUR 2				
Gel	1000 [#]	8 ¹⁵	8 ¹⁵	MISSING SURVEY, LOG SERVICE & P.O.P
Weight	10000 [#]	12 ⁰⁰	12 ³⁰	DRILLING
Spersone	100 [#]	12 ³⁰	1 ³⁰	CIRC TO SURVEY
Caustic	50 [#]	1 ³⁰	1 ³⁰	SURVEY TUBS NOT GET TO BOTT
Water	50664s	1 ³⁰	4 ⁰⁰	1" SURVEY #61
				DRILLING
TOUR 3				
		4 ²⁰	4 ²⁰	CIRC w/ 1912.
		4 ²⁰	6 ⁰⁰	RIG #2 + PUMP DOWN w/ LINE SURVEY.
		6 ⁰⁰	7 ¹²	DRILLING.
		7 ¹²	7 ²⁰	RIG SERVO.
		7 ²⁰	9 ¹⁰	DRILLING.
		9 ¹⁰	9 ²⁰	1" w/ PUMPS
		9 ²⁰	12 ⁰⁰	DRILLING.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

10⁰⁰ AM - Refrigeration Conductor 661
 Ambient Temperature -10° F
 Alcohol Returns +10° F.
 Flow line mud Temperature +110° F.

Could not run wireline survey barrel to bottom as mud too heavy - rigged up circulating manifold and pumped survey barrel to bottom - 30 mins to reach bottom.

REPORT

0.10
14
42
6.0
9.0
11
80
300
CORD
Reading
2.
1 1/2

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD Wilocal WELL NAME CK 1-22 CONTRACTOR G.P. RIG NO 15
 ✓ DRILLING □ DEEPENING □ COMPLETING LSDN-66 SEC 42' TWP 41.137 Rge 20' W
 □ REDRILLING □ ABANDONING □ REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT MARCH 30 1971

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS D.P.	NO. <u>82</u>	<u>775854</u> FT	NO. <u>82</u>	<u>775854</u> FT	NO. <u>82</u>	
SINGLE D.P.	NO.		NO.		NO. <u>1</u>	<u>778889</u> FT
X-OVER SUB <u>7</u> O.D.		<u>300</u> FT		<u>300</u> FT		<u>300</u> FT
OTHER O.D.				<u>61389</u> FT		
DRILL COLLARS <u>20-7"</u> O.D.		<u>61389</u> FT				<u>61389</u> FT
DRILL COLLARS O.D.	NO.		NO.		NO.	
REAMER O.D.	KIND		KIND		KIND	
STABILIZER <u>CHRS</u> O.D.	KIND		KIND	<u>462</u> FT	KIND	<u>462</u> FT
JARS	KIND		KIND		KIND	
BUMPER SUB	KIND		KIND		KIND	
BIT OR CORE BARREL						
TOTAL D.P. & TOOLS		<u>837543</u> FT		<u>837543</u> FT		<u>840038</u> FT
KELLY DOWN (BELOW R.B.)		<u>2357</u> FT		<u>19</u> FT		<u>4062</u> FT
DEPTH OF TOOLS		<u>839960</u> FT		<u>839900</u> FT		<u>845100</u> FT

TOUR 1
WT MAT
KELZAN

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<u>8399</u> FEET	<u>8399</u> FEET	<u>8451</u> FEET
DEPTH START OF TOUR	<u>8381</u> FEET		<u>8399</u> FEET
FOOTAGE DRILLED	<u>18</u> FEET		<u>52</u> FEET

TOUR 2
Kelzan

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	<u>1900</u> 62						<u>1900</u> 63	<u>1900</u> 63	<u>1900</u> 63	<u>1900</u> 63	<u>1900</u> 63	<u>1900</u> 63
ROTARY SPEED R.P.M.	<u>60</u>						<u>62</u>	<u>62</u>	<u>62</u>	<u>62</u>	<u>62</u>	<u>62</u>
WEIGHT ON BIT M. lbs.	<u>40</u>						<u>30</u>	<u>30</u>	<u>35</u>	<u>35</u>	<u>35</u>	<u>35</u>
MUD WEIGHT lb/gal	<u>10.1</u>						<u>10.1</u>	<u>10.0</u>	<u>10.1</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>
VISCOSITY sec/qt	<u>106</u>											<u>106</u>
W.L.F.C. c.c./32nd	<u>4.8</u>											
p.H.	<u>9.0</u>						<u>7.0</u>	<u>3.6</u>	<u>5.5</u>	<u>5.5</u>	<u>5.5</u>	<u>5.5</u>
MUD LEVEL IN TANKS Ft. Ins												

Picked up
 up from
 trip at
 70' P. 11
 * 2 pump
 afternoon

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	TOTAL BIT FOOTAGE	FT HR	BIT CONDITION
<u>28</u>	<u>8 3/4</u>	<u>30198</u>	<u>H.W. LDU</u>	<u>1/8 1/16</u>	<u>24 1/2</u>	<u>8238</u>	<u>8399</u>	<u>161</u>	<u>6.7</u>	<u>4-4-1</u>
<u>29</u>	<u>8 3/4</u>	<u>912037</u>	<u>Sec 588</u>	<u>1/8 1/16</u>		<u>8399</u>	<u>8451</u>	<u>52</u>		<u>IN</u>

Retriever
 Ambient
 Alcohol Re

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins	IHP	p.s.i.	IFP	ps	Time <u>9</u> PM
FROM		ISI	mins	FHP	p.s.i.	FFP	ps	Mud Wt <u>10.0</u>
TO		VO	mins	ISIP	p.s.i.	GTS	ps	Visc <u>100</u>
Recovery		FSI	mins	FSIP	p.s.i.	FTS	ps	W.L.F.C. <u>4.8/2</u>
HOURS		RECOVERY						p.H. <u>9.0</u>
								A.V. <u>5.7</u>
								P.V. <u>33</u>
								Y.P. <u>48</u>
								Soft <u>11</u>
								CA. ppm <u>90</u>
								CL. ppm <u>300</u>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<u>A. SKINNER</u>	<u>Ed KRAWCHUK</u>	<u>J. PETERSEN</u>	Kind	Depth	Reading
DERRICKMAN	<u>M. CHINSKI</u>	<u>Los WHITING</u>	<u>G. LONG</u>	<u>to</u>	<u>8399</u>	<u>2'</u>
HELPER	<u>V. Vogel</u>	<u>O. Mc GUIRE</u>	<u>B. ANDERSON</u>			
HELPER	<u>V. Vogel</u>	<u>J. WANDLER</u>	<u>J. GRAHAM</u>			
HELPER	<u>W. Wagner</u>	<u>G. JACOBSON</u>	<u>W. KRAWCHUK</u>			
FIREMAN						
TOOL PUSHER	<u>[Signature]</u>					

Christensen

S.O.P.C Wm SHAEFER

CKY 7.0-22

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1971				
DOWN TOUR				
		12 ⁰⁰	12 ¹⁵	Drill
		12 ¹⁵	12 ³⁰	Set Rig + B.O.P
WT Mat	1000 #	12 ³⁰	3 ⁰⁰	Drill
KELZAN	150 #	3 ⁰⁰	3 ¹⁵	DROP SQUEET
		3 ¹⁵	8 ¹⁵	Blow Kelly TAKE OFF Hose + Drain + Put on Same. Hoist Bit 25 a 8399
TOUR 2				
		8 ⁰⁰	8 ¹⁵	HOIST BIT #28
		8 ¹⁵	8 ³⁰	RIG SER BLIND RIG
		8 ³⁰		DRESS UP BIT ANKLE UP SAME
			9 ³⁰	TRIP IN O COLLECTS
		9 ³⁰	10 ³⁰	SLIP @ CUT 62 FT LINE
		10 ³⁰	2 ⁰⁰	RUN IN PIPE SLOW
		2 ⁰⁰	4 ⁰⁰	CLEAN TO BIT 70
				PICK UP CHRISTENSEN STAB.
TOUR 3				
Kelzan	100 #	4 ⁰⁰	7 ³⁰	Drilling
		7 ³⁰	7 ⁴⁵	Rig Service v Bop
		7 ⁴⁵	12 ⁰⁰	Drilling

1	FEET
9	FEET
2	FEET
HOURS	
3	10 ⁰⁰
2	62
5	35
2	10 ⁰⁰
1	10 ⁰⁰
1	10 ⁰⁰

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Picked up Christensen Stabilizer # 454 and placed 60' up from bit.
 Trip at 8399 to change bit
 70' fill on bottom
 * 2 pumps down - being repaired - no mud mixed on afternoon tower.

Refrigeration Conductor Barrel - 4³⁰ PM
 Ambient Temp 0° F
 Alcohol Returns +22° F

S REPORT	
Gel	10
Min Gel	14
F.C.	4.5/2
	9.0
	11
ppm	90
ppm	300
ORD	
Reading	

2 Christensen Stabilizer # 454 : 7³⁰ hrs Cumulative 581¹⁴ hrs
 " # 453 - NOT IN STRING " 560³⁴ "

L. J. Jernigan
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **W110CAT**

WELL NAME **CHY 22**

CONTRACTOR **G.P.**

RIG NO **15**

SO 2 E 6

DRILLING DEEPENING COMPLETING

LSDN-66 SEC 40 TWP. 137 Rge 20 W

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 29**

1971

MUD CHEMICALS AD

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	DP	NO 80			FT	NO 81			FT	NO 81			FT
SINGLE	DP	NO 2	768	331	FT	NO 1	789	688	FT	NO 2	772	687	FT
X OVER SUB	7 O.D.			300	FT			300	FT			300	FT
OTHER	O.D.				FT				FT				FT
DRILL COLLARS	20 7' O.D.			613	89 FT			613	89 FT			613	89 FT
DRILL COLLARS	O.D.	NO			FT	NO			FT	NO			FT
REAMER	O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER	O.D.	KIND			FT	KIND			FT	KIND			FT
JARS		KIND			FT	KIND			FT	KIND			FT
BUMPER SUB		KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL					FT				FT				FT
TOTAL D.P. & TOOLS				8250	20 FT			8313	70 FT			8343	76 FT
KELLY DOWN (BELOW R.B.)				3880	FT			2922	FT			3724	FT
DEPTH OF TOOLS				8289	100 FT			8330	92 FT			8381	100 FT

TOUR 1
WT MAT 5
Down to B 10
KELBAN 15

TOUR 2
Causal
Weight Mat 6

TOUR 3
K
WT
K
E

Unsuccessful
Performance
11:30 pm - Ret
Ambient
Alcohol
Desitter

DAY WORK	MORNING TOUR					DAYLIGHT TOUR					AFTERNOON TOUR				
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM			
PUMP	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050			
ROTARY SPEED	78	78	78	78	78	78	78	60	60	60	60	60			
WEIGHT ON BIT	35	35	35	35	35	35	35	35	35	35	35	40			
MUD WEIGHT	99	99	101	100	100	100	100	100	100	100	100	100			
VISCOSITY	102	101	101	94	94	94	94	94	94	94	94	106			
WLFC	52	52	52	52	52	52	52	52	52	52	52	52			
pH	9.0	9.0	10	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0			

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	DEPTH	BIT CONDITION
28	8 3/4	30498	HUGHES XDV	1/4 1/16 1/16 1/16	14	8238	8381	143.66	in

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	8:00 AM	Rate	0.10
					Mod Wt	100	20 Min	35
					Visc	101	W.P.	5.7/2
					AV	5.7	pH	9.2
					P.V.	30	Sound	11

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. SKINNER	ED KRAWCHUK	J. PATTERSON	Wind	Depth	Reading
DERRICKMAN	W. CHINSKI	L. WHITING	C. LONG	Total	8238	1 1/4
HELPER	V. VOJCI	D. MCCUING	B. ANDERSON			
HELPER	V. VOJCI	J. WANDLER	J. GRANAMI			
HELPER	W. WAGSTADT	G. JACOBSON	W. KRAWCHUK			
FIREMAN						
TOOL PUSHER						

SOBE Wm. SHAEFFER CKY-0-22

MUD & CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL	
Kind	Amount	From	To	WORK DONE
1971				
ON TOUR				
TOUR 1				
WT MAT	55.00	12 ⁰⁰	1 ¹⁵	CLEAN 63 To Bottom SERV RIG + CHECK B.O.B. Drilling
DOWSIDE B	10 ⁰⁰	1 ¹⁵	1 ³⁰	
KEIRAN	150 ⁰⁰	1 ³⁰	8 ¹⁰	
687	FT			
300	FT			
	FT			
	FT			
389	FT			
	FT			
	FT			
TOUR 2				
Caustic	50 ⁰⁰	8 ⁰⁰	8 ¹⁵	BIG SER CHECK BOPS DRILLING CHANGED WASH PIPE @ PACKING DRILLING.
WIEGHT MAT	65.00	8 ¹⁵	9 ³⁰	
		8 ³⁰	4 ⁰⁰	
376	FT			
724	FT			
120	FT			
TOUR 3				
WT MAT	1000 ⁰⁰	4 ⁰⁰	6 ³⁰	Drilling K.G. Service, Hold Bop Drill Drilling.
WT MAT	100 ⁰⁰	6 ³⁰	6 ⁴⁵	
WT MAT	10 ⁰⁰	6 ⁴⁵	12 ⁰⁰	
4	FEET			
6	FEET			
5	FEET			
HOURS				
0 P.M.	12:00 P.M.			
57	14:30			
63	63			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Unannounced blow out drill with Ed Krawchuk and crew performed satisfactorily.

11³⁰ pm - Refrigeration - conductor 661
Ambient Temp - 20°F
Alcohol returns + 12°F.

Desilter NOT on stream.

S REPORT

0.10
Gel 14
Min Gel 35
FC 5.7/2
9.2
11
ppm 30
ppm 300
Reading
1/4

L. F. Grumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD WLOCAT WELL NAME CA 47 #22 CONTRACTOR G.P. RIG NO 15
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT WINDCH 28 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR								
STANDS	D.P.	NO. <u>80</u>	<u>75</u>	<u>75</u>	<u>06</u>	FT	NO. <u>80</u>				FT	NO. <u>80</u>				FT
SINGLE	D.P.	NO.				FT	NO. <u>1</u>	<u>760</u>	<u>969</u>	FT	NO. <u>1</u>	<u>760</u>	<u>058</u>	FT		
X-OVER SUB	<u>7</u> O.D.				<u>300</u>	FT			<u>300</u>	FT			<u>300</u>	FT		
OTHER	O.D.					FT				FT				FT		
DRILL COLLARS	<u>20</u> O.D.				<u>618</u>	FT			<u>613</u>	FT			<u>613</u>	FT		
DRILL COLLARS	O.D.	NO.				FT	NO.			FT	NO.			FT		
REAMER	O.D.	KIND				FT	KIND			FT	KIND			FT		
STABILIZER	O.D.	KIND				FT	KIND			FT	KIND			FT		
JARS		KIND				FT	KIND			FT	KIND			FT		
BUMPER SUB		KIND				FT	KIND			FT	KIND			FT		
BIT OR CORE BARREL						FT				FT				FT		
TOTAL D.P. & TOOLS					<u>8191</u>	FT			<u>8222</u>	FT			<u>8227</u>	FT		
KELLY DOWN (BELOW R.B.)					<u>248</u>	FT			<u>192</u>	FT			<u>192</u>	FT		
DEPTH OF TOOLS					<u>8216</u>	FT			<u>8242</u>	FT			<u>8238</u>	FT		

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<u>8216</u> FEET	<u>8242</u> FEET	<u>8238</u> FEET
DEPTH START OF TOUR	<u>8178</u> FEET	<u>8216</u> FEET	<u>8238</u> FEET
FOOTAGE DRILLED	<u>38</u> FEET	<u>26</u> FEET	<u>0</u> FEET

DAY WORK	HOURS							HOURS				
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	S.D.M. <u>63</u>	D.S.I. <u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>	<u>63</u>
ROTARY SPEED	R.P.M. <u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>67</u>	<u>67</u>					
WEIGHT ON BIT	M.lbs. <u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>	<u>40</u>					
MUD WEIGHT	lb.gal. <u>9.8</u>	<u>9.8</u>	<u>9.8</u>	<u>9.8</u>	<u>9.8</u>	<u>9.8</u>	<u>9.8</u>					
VISCOSITY	sec. ct. <u>106</u>	<u>110</u>	<u>109</u>	<u>108</u>	<u>104</u>	<u>104</u>	<u>104</u>					
W.L.F.C.	cc 32nd <u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>					
pH	<u>9.0</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>	<u>9.2</u>					
MUD LEVEL IN TANKS	Ft. Ins.											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT CONDITION
<u>27</u>	<u>8 3/4</u>	<u>64709</u>	<u>BEED SSIG</u>	<u>3/16 1/8 3/16</u>	<u>2 3/4</u>	<u>8120</u>	<u>8238</u>	<u>68 5.1</u>	<u>2-7-1</u>
<u>28</u>	<u>8 3/4</u>	<u>30498</u>	<u>H.W. ODV</u>	<u>1/8 1/8 1/8</u>					<u>Tip in</u>

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	AM	AK	0.1
					PreFlow	mins	FHP	ps
					IS1	mins	FHP	ps
					VO	mins	IS1P	ps
					FS1	mins	FS1P	ps
					RECOVERY			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<u>A.S. K...</u>	<u>Ed Krawchuk</u>	<u>J. Peterson</u>	Kind	Depth	Reading
DERRICKMAN	<u>M. Chinski</u>	<u>L. Whiting</u>	<u>G. Long</u>	<u>Totals</u>	<u>8120</u>	<u>1 1/4"</u>
HELPER	<u>V. Uggel</u>	<u>D. Mc...</u>	<u>P. Anderson</u>	<u>Totals</u>	<u>8238</u>	<u>1 1/4"</u>
HELPER	<u>V. Uggel</u>	<u>J. W...</u>	<u>V. Graham</u>			
HELPER	<u>W. Wagstaff</u>	<u>C. Jacobson</u>	<u>W. Krawchuk</u>			
FIREMAN						
TOOL PUSHER						

30.80
 CHEMICALS
 TOUR
 Caustic
 Supreme
 Wiegli Mat 6
 Sandust
 TOUR
 Both floor
 Desires no
 Trip at 82
 Double T
 Deviation
 No reamer
 Circulating
 Ambient
 Alcohol ret
 Plugged sur

50.80 Wm SHAEFER CK47-0-22

1971		MUD wt CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL
DN TOUR	Kind	Amount				WORK DONE
	TOUR 1			12 ⁰⁰	4 ⁴⁵	DRILL
058	FT			4 ¹⁵	4 ⁵⁰	SEA LIN CHECK BOPS
300	FT			4 ⁵⁰	8 ⁰⁰	DRILL
	Weight	1500 [#]				
	TOUR 2			8 ⁰⁰	10 ³⁰	DRILL
	Caustic	50 [#]		10 ³⁰	10 ⁴⁵	RIG SET & BOPS.
	Supercene	100 [#]		10 ⁴⁵	12 ³⁰	DRILL
	Weight Mat	6500 [#]		12 ³⁰	1 ⁰⁰	CURE TO HAIST BIT #22
	Sawdust	50 sax		1 ⁰⁰	4 ⁰⁰	SUBJECT HAIST MEASURE OUT
	TOUR 3			4 ⁰⁰	5 ⁴⁵	FINISH HOASTING, MEASURE OUT
				5 ⁴⁵	5 ⁴⁵	Rq. Sucker - Bags Change BITS
8	FEET			5 ⁴⁵	6 ¹⁵	TRIP IN w/ DC
8	FEET			6 ¹⁵	7 ¹⁵	SLIP & CUT 63' DCLG LINE
0	FEET			7 ¹⁵	10 ³⁰	TRIP IN w/ D.P., MEASURE IN
	HOURS			10 ³⁰	11 ⁴⁵	TAKE DOWN & TRAP OUT Kelly Chase
				11 ⁴⁵	12 ⁰⁰	1-11 Pipe

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Both floor motors operating
 Desilter not on stream.

TRIP at 8242 to change bit

Double Tally

Beard 8264.02

SLM 8239.64

D.H. 4.38 Cure made

~~Drill stem not on stream~~

No reamers or stabilizers in string

Circulating conductor barrel refrigeration coils

Ambient temperature - 25 °F

Alcohol returns +10 °F

Plugged sump leak with 50 sax sawdust.

H. F. Gumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **15**

FIELD **W110CAL** WELL NAME **CR47-22** LSD **N-66** SEC **12** TWP **N-139** R. **20** W **W**
 DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 28 1971**

S2, RC W
MUD CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS .. DP	NO	79		FT	NO			FT	NO	79		FT
SINGLE .. DP	NO	2	754286	FT	NO			FT	NO	2	754286	FT
X OVER SUB .. 7" O.D.			300	FT			300	FT			300	FT
OTHER .. O.D.				FT				FT				FT
DRILL COLLARS 20 7" O.D.			61311	FT			61311	FT			61311	FT
DRILL COLLARS .. O.D.	NO.			FT	NO			FT	NO			FT
REAMER .. O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER .. O.D.	KIND			FT	KIND			FT	KIND			FT
JARS	KIND			FT	KIND			FT	KIND			FT
BUMPER SUB	KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL				FT				FT				FT
TOTAL DP & TOOLS			815897	FT				FT			815897	FT
KELLY DOWN (BELOW R.B.)			1103	FT				FT			1903	FT
DEPTH OF TOOLS			817000	FT				FT			817800	FT

TOUR
GEL
WATER

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR				FEET				FEET			8170	FEET
DEPTH START OF TOUR			8170	FEET			8170	FEET			8170	FEET
FOOTAGE DRILLED				FEET				FEET			008	FEET

TOUR
8170
8170
008

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	S.p.m. 63	S.p.m. 62	S.p.m. 63	S.p.m. 62					S.p.m. 63	S.p.m. 63	S.p.m. 63	S.p.m. 63
ROTARY SPEED	R.P.M. 1100	R.P.M. 1100	R.P.M. 1100	R.P.M. 1100					R.P.M. 1100	R.P.M. 1100	R.P.M. 1100	R.P.M. 1100
WEIGHT ON BIT	M lbs.											
MUD WEIGHT	lb/gal	9.8	9.8	9.8	9.7							
VISCOSITY	sec. qt	135	130	135	137							
W.L.F.C.	c.c./32nd	5.2	5.2	5.2	5.2							
p.H.		9.2	9.2	9.3	9.2							
MUD LEVEL IN TANKS	Ft. Ins.											

Tripped back in down to 8 out quad
No reamers

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
27	8 1/4	64709	REGO SSIG	3/16	1 1/2	8170	8178	8	in

Circulate ambient Return also

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	AM	PM	AK
TYPE		PREFLOW	mins	I.H.P.	mins	F.H.P.	mins	F.H.P.
FROM		ISI	mins	F.H.P.	mins	F.H.P.	mins	F.H.P.
TO		VO	mins	I.S.P.	mins	G.T.S.	mins	F.T.S.
Recovery		F.S.I	mins	F.S.P.	mins	F.T.S.	mins	F.T.S.
HOURS		RECOVERY						

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	H. Skinner	Ed Kautchuk	W. B. ...	Kind Depth Reading
DERRICKMAN	M. C. ...	Les Whiting	...	8170
HELPER	P. Vogel	Don McCuaig	...	
HELPER	V. Vogel	Jim Handler	Jim ...	
HELPER	W. Wagstaff	Clay Jacobson	...	
FIREMAN				
PUSHER				

S.P.C. Wm SHAEFER CK-17-0-22

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	12 ¹⁵	CLEANING HOLE
TOUR 2		12 ¹⁵	3 ¹⁵	Hole tight Contact Circ, work out 5 Singles
GEL	1700			Circ work tight Hole Free
WATER	15 BKS	3 ¹⁵		Hole Bringing off
		5 ⁰⁰	5 ¹⁰	Run in STAND & Cleaning Back to 8096
			8 ¹⁰	
TOUR 3		8 ⁰⁰	10 ³⁰	CLEANING HOLE
		10 ³⁰		Hole TIME TO 2200
			2 ³⁰	TRIP BACK IN 2200
		2 ³⁰		BREAK CIRC CLEAN HOLE
			4 ⁰⁰	FROM 7809 TO 7930
TOUR 4		4 ⁰⁰	4 ¹⁵	Rig Setup & Loss
DRILL FLUID	10	4 ¹⁵	10 ¹⁵	Cleaning Hole FROM 7930 TO 8170
WATER	10	10 ¹⁵	11 ⁰⁰	Waiting
WATER	50			
WATER	50			
WATER	60 BKS			

1921
 286 FT
 300 FT
 211 FT
 997 FT
 903 FT
 800 FT
 8 FEET
 0 FEET
 8 FEET
 HOURS
 1600 6³/₁₆₀₀
 104
 90

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Tipped pipe out to 5200 - right spot at 2650. Ran back in Hit first right spot & bridge at 2900. Reamed singles down to 8170 - Severe Torque at 8100 - 8120. Cleaned out good from 8120 - 8170. No Torque on reaching bottom.

No reamers or stabilizers in string

Circulating conductor pipe with alcohol
 Ambient temperature - 25°F
 Return alcohol 0°F

S REPORT
 35
 25
 8.0/2
 8.5
 10
 71
 800
 CORU
 Reading

W. F. Grumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.**

RIG NO **15**

FIELD **WILCOAT**

WELL NAME **CKY #22** LSDN. 66 SEC 47 T4W-135 Rge 20 W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

MARCH 26 1971

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS .. D.P.	NO 79			FT	NO			FT	NO 79			FT
SINGLE .. D.P.	NO 2	7542	86	FT	NO			FT	NO 2	7542	86	FT
X OVER SUB .. 7" O.D.			800	FT			300	FT			300	FT
OTHER .. O.D.				FT				FT				FT
DRILL COLLARS 20 " 7" O.D.		613	11	FT	20	613	11	FT	20	613	11	FT
DRILL COLLARS .. O.D.	NO.			FT	NO			FT	NO			FT
REAMER .. O.D.	KIND			FT	KIND			FT	KIND			FT
STABILIZER .. O.D.	KIND			FT	KIND			FT	KIND			FT
JARS	KIND			FT	KIND			FT	KIND			FT
BUMPER SUB.	KIND			FT	KIND			FT	KIND			FT
BIT OR CORE BARREL				FT				FT				FT
TOTAL D.P. & TOOLS		8158	97	FT				FT		8158	97	FT
KELLY DOWN (BELOW R.B.)			1103	FT				FT			1103	FT
DEPTH OF TOOLS		8170	00	FT				FT		8170	00	FT

TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR	8170	FEET	8170	FEET	8170	FEET
DEPTH START OF TOUR	8170	FEET		FEET		FEET
FOOTAGE DRILLED	00	FEET		FEET	0	FEET

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	62 1100	62 1100	62 1100	62 1100	57 1100	62 1100	62 1100	62 1000	62 1000	62 1000	62 1000	62 1000
ROTARY SPEED	CLEANING TO BIT											
WEIGHT ON BIT	CLEANING TO BIT											
MUD WEIGHT	9.7	9.7	9.8	9.8	11	11	9.8	9.8	9.8	9.8	9.8	9.8
VISCOSITY	84	89	103	97	121	135	135	110	120	107	120	122
W.L.F.C.	7.5	7.8	7.9	7.2	7.2	7.2	7.2	8.2	8.2	8.2	8.2	8.2
p.H.	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.5	8.5	8.5	8.5	8.5

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
27	8 3/4	68709	REGD SSIG	3/16		8170			

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
					AM	PM	AK	
					Time			
					Int. Gr.			
					Mud Wt.			
					Visc			
					W.L.F.C.			
					p.H.			
					P.V.			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. SKINER	E. RAWLHUCK		Kind	Depth	Reading
DERRICKMAN	V. CHINSKI	L. WHITING			8170	1'
HELPER	V. VOGEL	D. M'CURAIG				
HELPER	V. VOGEL	J. WANDLER				
HELPER	W. WAGSTADT	G. JACOBSON				
FIREMAN						
TOOL PUSHER						

S.O. 130

MUD CHEMICALS A

TOUR

Go 1

TOUR

Caustic

Down

KALCAN RL

Set

Water

TOUR

Go 2

Caustic

Cleaning

One Floor

S.O.B.C. WITH SHAEFER CK 47 0-22

MUD & CHEMICALS ADDED				OTHER HOURLY OPERATING DETAIL	
1971	Kind	Amount	From	To	WORK DONE
296	TOUR 1		1200	1200	CLEANING OUT HOLE CHECKING CHECKS BOPS CLEANING TO BOTTOM FROM 6106 TO 6364
300	GOIL	4200	1200	1200	
311	TOUR 2		400	1000	CLEANING TO BOTTOM CHECKING CHECKS BOPS CLEANING FROM 6364 TO 7240
	Caustic	50#	1000	1015	
	Domestic	10#	1015	400.	
	KALZAN RL	50#			
	Sol	1500#			
377	TOUR 3		400	415	Rig Service & BOPS CLEANING IN HOLE FROM 7240 - 7270 RUN IN 3 SPS CLEANING IN HOLE FROM 7710 TO 8096
103	GOIL	2800	415	445	
	Caustic	50	445	500	
			500	1200	
000					

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Cleaning out hole from 6100 to 8100

One floor motor down - need new manifold

Substantial damage to rig - check on pulling out
motor back down

Determine cause of motor damage - check on
motor

Working on motor - see next

L. J. [Signature]

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **C.P. 15** RIG NO **15**

FIELD **WinoCat** WELL NAME **CK4T #22** LSD **N 66'** SEC **17'** TWP **N 15'** Rge **20'** W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **March 25** 1971

MUD CHEMICALS A
 Kind

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 79		NO 79
SINGLE D.P.	NO 2 754286 FT		NO 2 754286 FT
X OVER SUB 7' O.D.	300 FT	300 FT	300 FT
OTHER tie sub O.D.	1200 FT		
DRILL COLLARS 19 "7" O.D.	58253 FT	90 61311 FT	61311 FT
DRILL COLLARS Ch. 54 3219 O.D.	462 FT		
REAMER O.D.			
STABILIZER O.D.			
JARS			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	814501 FT		
KELLY DOWN (BELOW R.B.)	2499 FT		1103 FT
DEPTH OF TOOLS	817000 FT		817000 FT

TOUR
Gal 29
Kelzan 1

TOUR
Gal 1

TOUR
Gal 1

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			8170 FEET
DEPTH START OF TOUR	8170 FEET		8170 FEET
FOOTAGE DRILLED			0 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP s.p.m. p.s.i.	44	64							64	64	62	62
ROTARY SPEED R.P.M.									1000	1000	1000	1000
WEIGHT ON BIT M. lbs.												
MUD WEIGHT lb/gal	9.7								9.7	9.7	9.7	9.7
VISCOSITY sec/qt	67								66	67	60	64
W.L.F.C. c.c./32nd												
p.H.												
MUD LEVEL IN TANKS Ft.-ins.												

Position
Under Flow
 10.1

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT CONDITION
26	B34	343066	Security SBB	3/16 - 1/4		8170	8170		brushed Nozzle Socket
27	B34	647209	SS16	3/16 - 1/4		8170			Cleaning Hole

CHANGED
 10.1
 10.1

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
					Time	A.M.	P.M.	AK	
TYPE		PREFLOW	mins	F.H.P.	psi	F.P.P.	psi	Time	
FROM		ISI	mins	F.H.P.	psi	F.P.P.	psi	Mud Wt	Int. Gel 10 Min. Gr
TO		VO	mins	F.S.P.	psi	G.T.S.	psi	Vis	W.L.F.C.
Recovery		FSI	mins	F.S.P.	psi	F.T.S.	psi	AV	p.H.
HOURS		RECOVERY			psi	F.T.S.	psi	PV	Sum

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	A. SKINNER	Ed Kravchuk	J. Peterson			
DERRICKMAN	M. CHINSKI	Las Whiteing	G. Henry	total	8170	1'
HELPER	P. Vogel	Danny McCraig	B. Anderson			
HELPER	V. Vogel	Jim Wondler	J. Graham			
HELPER	W. Wagsstaff	Glen Jacobson	W. Klawns			
FIREMAN						
TOOL PUSHER						

Pulled bit
 Nozzle seat
 bit # 22 -
 1 ft 100.
 R. 9 g. m. y

503C WM Shafter CK YT 0-22

1971
DN TOUR
286 FT
300 FT
311 FT
103 FT
000 FT
0 FEET
0 FEET
0 FEET
HOURS
0 PM 12:00 PM
62
800

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
Gal	29.5	12 ⁰⁰	12 ¹⁵	Sea R.P. + B.O.P.
Kelzan	1.00	12 ¹⁵	8 ⁰⁰	CLEANING TO BOTTOM FROM 4895 TO 5767
TOUR 2		8 ⁰⁰	10 ⁴⁵	RETHRILL HOLE FROM 5767 TO 5977
Gal	1750	10 ⁴⁵		HOIST BIT WASH OUT JET
			2 ³⁰	TIGHT HOLE RUN DOWN FROM SINGLE
				CHRISTENSEN STABILIZER 422 TELEURIF. 500
			4 ⁰⁰	PICK UP BOTTOM HOLE COLLAR
				DRINK UP BIT TUBE IN
TOUR 3		4 ⁰⁰	5 ³⁰	Run in, HIT BRIDGE @ 5500'
Gal	1750	5 ³⁰		CLEAN BRIDGE 5500' TO 5630
			12 ⁰⁰	Run in 3 STAS CLEAN BRIDGE TO 6106'

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Position	Underflow	Overflow	Suction	Rate	Time
9.7	10.1	9.5	9.6	1 Gal /	45 min
2.84					

CHANGED CHAIR - STABILIZER ON TRIP @ 8070

Rate Socket	Hole	10.1	9.5	9.7	1 gal 50 sec	6:00 PM
S REPORT		10.1	9.5	9.7	1 gal 50 sec	8:00 PM
						12:15

Pulled bit #26 as pressure dropped - lost nozzle in hole
Nozzle seat washed out. Bit otherwise OK. Run in with
bit #27 - Read 5216.

1 flow motor down
Rigging up dewater to mix mud


 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **Wildcat**

CONTRACTOR **G.P.**

RIG NO **15**

WELL NAME **CKYT #22**

LSDN-66° SEC 42' TWP-137° Rge 20' W

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 24 1971**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	D.P.	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT	NO	FT
SINGLE	D.P.	NO 2	754	286				NO 2	754	286			
X-OVER SUB	7" O.D.		300				300				300		
OTHER	T.O. SUB		1200				1200				1200		
DRILL COLLARS	19.7" O.D.		582	53			582	53			582	53	
DRILL COLLARS	STAND		46	2			46	2			46	2	
REAMER	O.D.												
STABILIZER	O.D.												
JARS													
BUMPER SUB													
BIT OR CORE BARREL													
TOTAL D.P. & TOOLS			8145	01			8145	01			8145	01	
KELLY DOWN (BELOW R.B.)			24	99			24	99			24	99	
DEPTH OF TOOLS			8170	00			8170	00			8170	00	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	8170 FEET		8170 FEET
DEPTH START OF TOUR	8133 FEET		8170 FEET
FOOTAGE DRILLED	37 FEET		0 FEET

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	0.5	1.5										
ROTARY SPEED	36	36										
WEIGHT ON BIT	45	45										
MUD WEIGHT	9.5	9.5						9.7	9.7			
VISCOSITY	47	47						46	47			
W.L.F.C.	2	2						2.3	2.3			
p.H.	9.3	9.3						9.2	9.2			
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION
25	8 3/4	ESSA	SMITH 455	3/16-1/8	694	773	8170	457	A-B-I
26	8 3/4	3430	SECURITY	3/16-1/8					

CORE No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT						
				PREFLOW	IS	VO	FS	RECOVERY	RECOVERY	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	Ed Krawinkel		W. Peterson	Kind	Depth	Reading
DERRICKMAN	W. Czynski	Les Winkler	W. Krawinkel	Tote	8110	1 1/2
HELPER	W. Ugar	D. Mc Wrig	E. Anderson	Wire	8170	1
HELPER	W. Ugar	I. Winkler	J. Peterson			
HELPER	W. Wastaki	W. Krawinkel	W. Peterson			
FIREMAN						
TOOL PUSHER						

MUD CHEMICALS

TOUR

TOUR

TOUR

TOUR

DE SLITE

LIN OIL FLOW

10.0

10.0

10.1

10.1

10.1

10.1

1971

ON TOUR	FT
386	FT
300	FT
200	FT
253	FT
462	FT
	FT
	FT
	FT
	FT
501	FT
499	FT
000	FT
TOUR	
0	FEET
0	FEET
0	FEET

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
		12"		
		12"	3"	Drill
		3"	3"	Big Sea Check 3.0P
		3"	6.45	Drill
		6.45	7"	Drop Survey
		7"	8"	Tail Bit # 25 @ 8170
TOUR 1				
		8:00	11:00	HOIST bit #25
		11:00		RIG SERV Blind 11:00
			11:15	PROX SHUT OF
			1:45	DRIVE UP BIT 26
			3:45	TRIP IN
		3:45	4:10	BRIGHT @ 4:30 TO 4:620
				TRIP IN
TOUR 2				
		4:15	4:45	Rig Service & Logs
		4:15	13:00	Clearing hole from 4620'
				To 4695'

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DESIGN

	UNDERFLOW	OVERFLOW	Suction	RATE	Time
7	10.0	9.5	9.5	1600/50Sec	12:00 AM
1	10.0	9.5	9.5	1600/50Sec	2:00 AM
2	10.1	9.5	9.5	1600/50Sec	4:00 AM
					6:00 AM
CONDITION	10.1	9.5	9.7	1900/50Sec	8:00 P.M.
T	10.1	9.5	9.7	1900/50Sec	10:00 P.M.

REPORT
 T F
 S. Gel
 Min. Gel
 L.F.C.
 H.
 id
 A. P.P.
 L.P.P.M.

CORD
 Reading
 2 1 1/2
 2 1

Cement x blade on trip

[Handwritten Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GIP DRILL** RIG NO **15**

FIELD **WAD CAT.** WELL NAME **CKYT. 022** LSD **N. 66°** SEC **42'** TWP **N 137°** Rge **20'** W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 23 1971**

SOBE WM
 M. CHEMICALS A
 Kind

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO. 78		FT	NO. 78	744781	FT	NO. 79		FT
SINGLE .. D.P.	NO. 1	741609	FT	NO. 21	744781	FT	NO. 1	751118	FT
X-OVER SUB .. 7" O.D.		300	FT		300	FT		300	FT
OTHER TID SALS O.D.		1200	FT		1200	FT		1200	FT
DRILL COLLARS 19" 7" O.D.		58253	FT		58253	FT		58253	FT
DRILL COLLARS CHMS STAIR O.D.	NO.	462	FT	NO	462	FT	NO	462	FT
REAMER .. O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER .. O.D.	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB.	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		801824	FT		804996	FT		811223	FT
KELLY DOWN (BELOW R.B.)		976	FT		3514	FT		2022	FT
DEPTH OF TOOLS		802800	FT		808510	FT		813355	FT

TOUR	Kind	Quantity
TOUR 2	KELZAN	2
	GEL	8
	CAUSTIC	5
	DOWNIDE "B"	1
	WATER	5

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	8028	8085	8133
DEPTH START OF TOUR	7978	8028	8085
FOOTAGE DRILLED	50	57	45

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	66/1720	66/1720	66/1720	66/1720	64/1600	64/1600	64/1600	64/1600	64/1600	64/1600	64/1600	64/1600
ROTARY SPEED	36	36	36	36	36	36	36	36	34	34	36	36
WEIGHT ON BIT	45	45	45	45	45	45	45	45	45	45	45	45
MUD WEIGHT	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	7.5	9.5	9.5	9.5
VISCOSITY	46	46	46	46	47	48	47	47	47	47	47	47
W.L.F.C.	8.2	8.2	8.2	8.2	2	2	2.6	2.6	2	2	2	2
p.H.	9.0	9.0	9.0	9.0	9.0	9.0	9.3	9.5	9.3	9.3	9.3	9.3

DIESIS
 10.1
 10.2
 10.2
 10.1
 10.1
 10.0
 10.1
 10.0
 10.1
 0.0

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
25	2 3/4	ESSAY	SMITH	435	634	7713	8133	420	W

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	AM	AK	0.3
					Mud Wt	9.5	Int. Gr.	318
					Visc	46	W.L.F.C.	8.2
					p.H.	9.3		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. CHAMBERS	A. SKINNER	E. KRAWCHUCK	Kind	Depth	Reading
DRICKMAN	W. DRAKOS	M. CHWISKI	E. WHITING	Total	8015	3/4
HELPER	R. HAWER	P. Vogel	W. WELVAIG	Total	9.10	1/2
HELPER	A. BIRN	V. Vogel	J. WANDLER			
HELPER	J. FLATO	W. WAGSTAFF	G. JACOBSON			
FIREMAN						
TOOL PUSHER						

TOUR REPORT

CONTRACTOR **G.P. DRG** RIG NO **15**

FIELD **WILDCAT** WELL NAME **CRIST - 1** LSD **N66. SEC 42' TWP W137** Rge **20' W**
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **March 22, 1971**

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO 76		FT	NO 77	729290	FT	NO 77		FT
SINGLE .. D.P.	NO 2	726101	FT	NO.		FT	NO 2	735444	FT
X OVER SUB .. 7" O.D.		300	FT		300	FT		300	FT
OTHER T.D.S. SUB O.D.		1200	FT		1200	FT		1200	FT
DRILL COLLARS 19" O.D.		58253	FT		58253	FT		58253	FT
DRILL COLLARS ^{CHIPS} _{STAIRS} O.D.	NO.	462	FT	NO.	462	FT	NO.	462	FT
REAMER .. O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER .. O.D.	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		786316	FT		789485	FT		795659	FT
KELLY DOWN (BELOW R.B.)		1384	FT		3315	FT		2222	FT
DEPTH OF TOOLS		787700	FT		792800	FT		797881	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR		7877	FEET		7928	FEET		7978	FEET
DEPTH START OF TOUR		7828	FEET		7877	FEET		7928	FEET
FOOTAGE DRILLED		49	FEET		51	FEET		50	FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600	64 / 1600
ROTARY SPEED	36	36	36	36	36	36	36	36	36	36	36	36
WEIGHT ON BIT	45	45	45	45	45	45	45	45	45	45	45	45
MUD WEIGHT	9.2	9.2	9.2	9.2	9.5	9.5	9.5	9.5	9.5	9.6	9.6	9.6
VISCOSITY	48	48	48	48	47	47	48	48	47	46	47	47
W.L.F.C.			782		762	762	762	762	762	762	762	762
p.H.			9.0		9.2	9.4	9.5	9.2	9.3	9.4	9.3	9.3
MUD LEVEL IN TANKS				395				340				

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION
25	8 3/4	F5524	SMITH 435	7/16 1/2	11	7713	7973	265	W

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	I.H.P.	p.s.i.	F.P.P.	p.s.i.	Time 7:30 AM	AK 0.3
FROM		I.S.I.	mins	F.H.P.	p.s.i.	F.P.P.	p.s.i.	Mud Wt 1.5	Int. Gr. 7.16
TO		V.O.	mins	I.S.I.P.	p.s.i.	G.T.S.	p.s.i.	Visc 43	W.L.F.C. 7.8
Recovery		F.S.I.	mins	F.S.I.P.	p.s.i.	F.T.S.	p.s.i.	AV 24	p.H. 7.0
HOURS		RECOVERY						P.V. 2	Solid 8.5

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A. CHAMBERS	H. SKINNER		Kind	Depth	Reading
DERRICKMAN	W. DRUMKO	M. CHINSKI		TOTAL	7800	1/2
HELPER	G. HANBIR	P. VOGL		TOTAL	7920	3/4
HELPER	A. BIRN	V. VOGL				
HELPER	J. FLATO	W. WAGS-LEFF				
FIREMAN						
TOOL PULLER						

TO 2
TO 3
TO 4

KELZAN 12
GEL 60
CAUSTIC 5
DOWSIDE "B" 1
WATER 5

KELZAN 50
GEL 50
WATER 5

UNDERRIFLOW

10.1
10.0
10.1
10.1
10.0
10.0
10.0
10.0
10.0
10.0
10.0

GA. ppm 0/300
CL. ppm

23C Wm SHARPER CRT 022

1971
ON TOUR
444 FT
300 FT
200 FT
253 FT
462 FT
659 FT
222 FT
881 FT
TOUR
8 FEET
8 FEET
0 FEET

WATER AND CHEMICALS ADDED		From	To
Kind	Amount		
		12 ⁰⁰	1 ³⁰
		1 ³⁰	1 ⁴⁵
		1 ⁴⁵	8 ⁰⁰
TOUR 2		8 ⁰⁰	11 ⁰⁵
KELZAN	150#	11 ⁰⁵	12 ⁰⁰
GEL	600#		
CAUSTIC	50#	12 ⁰⁰	4 ⁰⁰
DOWSIDE "B"	10#		
WATER	50 Bbls		
TOUR 3		11 ⁰⁰	4 ³⁰
KELZAN	50#	11 ³⁰	11 ⁴⁵
GEL	500#	11 ⁴⁵	5 ¹⁵
WATER	50 bbls	5 ¹⁵	12 ⁰⁰

OTHER HOURLY OPERATING DETAIL
WORK DONE

Drilling
Rig Set
Drilling
Drill
Rig Set, Check Job, Rig Save
Drill
Drill
Rig Set
Survey @ 7:20
Drill

HOURS
0 P.M. 12:00 P.M.

4 36
5 15

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Drilling

CONDITION	INLET FLOW	OUTLET FLOW	SP. GRAV.	RATE	TIME
	10.1	9.5	95	1 gal / 75 sec	
	10.0	9.5	95	1 gal / 75 sec	
	10.1	9.5	95	1 gal / 75 sec	
	10.2	9.5	95	1 gal / 75 sec	
	10.1	9.5	95	1 GAL / 50 SEC	11:00 PM
	10.0	9.5	95	1 GAL / 48 SEC	12:00 PM
	10.1	9.5	95	1 GAL / 47 SEC	1:00 PM
	10.0	9.5	95	1 gal / 47 sec	
	10	9.5	95	1 gal / 47 sec	
	10	9.5	95	1 gal / 47 sec	
	10	9.5	95	1 gal / 47 sec	

TEST REPORT
Gel 0.2
Min Gel 7/16
LFC 7.8
7.0
8.0
A ppm 0/300
L ppm

WATER 453
V. 100

1/2
3/4

Signature and notes at the bottom of the page.

Signature of the company engineer.

TOUR REPORT

CONTRACTOR **G.P** RIG NO **15**

FIELD **WILDCAT** WELL NAME **CIKJT-1** LSD **N66** SEC **42** TWP **N137** Rge **20** W
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **March 21 1971**

JOBE
 AM CHEMICALS A
 Kind
 TOUR
 KELZAN
 GEL
 CAUSTIC
 DOWICIDE "B"
 WATER

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO. 75	710293 FT	NO 75	NO 74 719758 FT
SINGLE D.P. NO.		NO 2	716634 FT
X OVER SUB 1 O.D. 1	300 FT	300 FT	300 FT
OTHER T. D. SUPP	1200 FT	1200 FT	1200 FT
DRILL COLLARS 14" 7" O.D.	58253 FT	58253 FT	58253 FT
DRILL COLLARS CURVED STAINLESS O.D. NO.	462 FT	NO 462 FT	NO 462 FT
REAMER O.D. KIND			
STABILIZER O.D. KIND			
JARS KIND			
BUMPER SUB KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	770508 FT	776849 FT	779973 FT
KELLY DOWN (BELOW R.B.)	2292 FT	951 FT	2922 FT
DEPTH OF TOOLS	772800 FT	777800 FT	782895 FT

TOUR
 WATER
 10.2
 10.1
 10.1
 10.2
 10.2
 10.0
 9.8

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	7728 FEET	7778 FEET	7828 FEET
DEPTH START OF TOUR	7713 FEET	7728 FEET	7778 FEET
FOOTAGE DRILLED	15 FEET	50 FEET	50 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	5:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP			60 1650	64 1650	64 1650	64 1650	64 1650	64 1650	64 1650	64 1650	64 1650	64 1650
ROTARY SPEED		36	36	36	36	36	36	36	34	34	34	34
WEIGHT ON BIT		40	35	40	40	40	40	40	45	45	45	45
MUD WEIGHT		9.4	9.4	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.6	9.6
VISCOSITY		50	48	47	47	48	48	48	45	45	48	48
W.L.F.C.			6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
p.H.		9.0	8.7	8.7	8.7	8.7	8.7	8.7	9.5	9.5	9.5	9.5
MUD LEVEL IN TANKS			3.40				3.60					

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT. HR.	BIT CONDITION
25	8 3/4	F5524	SMITH	435	7/16	7713	7778	115	N

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
					Time	2 AM	AK 2.2
					Mud Wt	9.4	10 Min Gels 1/16
					Visc	51	W.F.C. 3.5
					A.V.T.		p.H. 9.0
					P.V.	15	Seal 3
					Y.P.	25	CA. ppm 100

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	A CHAMBERS	A STEINER	E KRAVCHUK	Kind	Depth	Reading
DERRICKMAN	W DRALIEKO	W. CHENSKI	L WHITING	7713		1
HELPER	G HABIBER	P. Vogel	D McCUAIG	7800		1/2
HELPER	A BIZWZ	V. Vogel	J WANDLER			
HELPER	J FLATO	N. Wagsstaff	BO JACOBSON			
FIREMAN						
TOOL PUSHER						

TOUR REPORT

CONTRACTOR **G.P.**

RIG NO **15**

FIELD **WILBERT**

WELL NAME **CRIST #1**

LSDN **66** SEC **42'** TWP **W137'** Rge **20' W**

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 20 1971**

508C

CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS .. D.P. NO. 74 FT	NO. 74 FT	NO. 74 FT	NO. 74 FT
SINGLE .. D.P. NO. 1 FT	702958 FT	NO. 2 707129 FT	NO. 2 707129 FT
X OVER SUB .. 7 O.D. FT	300 FT	300 FT	300 FT
OTHER T.D. SUB O.D. FT	1200 FT	1200 FT	1200 FT
DRILL COLLARS 19 7" O.D. FT	58253 FT	58253 FT	58253 FT
DRILL COLLARS EURO STAB NO. 462 FT	NO. 462 FT	NO. 462 FT	NO. 462 FT
REAMER .. O.D. KIND FT	KIND FT	KIND FT	KIND FT
STABILIZER .. O.D. KIND FT	KIND FT	KIND FT	KIND FT
JARS .. O.D. KIND FT	KIND FT	KIND FT	KIND FT
BUMPER SUB .. O.D. KIND FT	KIND FT	KIND FT	KIND FT
BIT OR CORE BARREL .. FT	FT	FT	FT
TOTAL D.P. & TOOLS	764173 FT	767334 FT	767334 FT
KELLY DOWN (BELOW R.B.)	4122 FT	3966 FT	3966 FT
DEPTH OF TOOLS	768200 FT	771300 FT	771300 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	7682 FEET	7713 FEET	7713 FEET
DEPTH START OF TOUR	7651 FEET	7682 FEET	7682 FEET
FOOTAGE DRILLED	31 FEET	31 FEET	31 FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	6.1	6.4	6.6	6.2	6.2	6.2						
ROTARY SPEED	36	36	36	36	36	36						
WEIGHT ON BIT	35	35	35	35	35	35						
MUD WEIGHT	9.5	9.5	9.5	9.5	9.5	9.4						
VISCOSITY	53	53	53	54	54	54						
W.L.F.C.			2	2	2	2						
p.H.		9.5	9.6	9.6	9.6							
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
24	8 3/4	29164	H.W. X55R	7/16 1/4	7.8	7292	7713	4853	3-3-5
		F5524	SOUTH 4 IS	7/16 1/4					

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEERS REPORT
TYPE		PREFLOW	mins	F.H.P.	ps
FROM		ISI	mins	F.H.P.	ps
TO		VO	mins	F.S.P.	ps
Recovery		FSI	mins	F.S.P.	ps
HOURS		RECOVERY			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	A CHAMBERS	H SKINNER	Ed KRAWCHUK
DEPRICKMAN	W DRWILKO	M CHINSKI	L WHITING
HELPER	G HAZER	P. Vogel	R McEwen
HELPER	A BIRN	V. Vogel	J WANDER
HELPER	J FLATO	W. WAGSTAFF	G IRCOBSON
FIREMAN			
TOOL PUSHER	James Fraser		

TOUR

WATER

TRIP

UNDRILLED

9.9

10.0

10.0

10.1

10.1

10.0

76.40

77.13

1 1/4

1

CHAMBERS

SKINNER

WHITING

WANDER

IRCOBSON

SOBC WAM SHARSHIR CRIST # 022

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	Kind	Amount		
ON TOUR	Tour 1	12 ⁰⁰	12 ¹⁵	RIG SURV
FT		12 ¹⁵	12 ⁴⁵	Survery
FT		12 ⁴⁵	8 ⁰⁰	D PILLING
FT				
FT				
FT				
FT	Tour 2	8 ⁰⁰	8 ¹⁵	Drill
FT	Water (20W)	8 ¹⁵	8 ³⁰	Drill
FT		8 ³⁰	2 ³⁰	Drill
FT		2 ³⁰	2 ⁴⁵	Drill
FT		2 ⁴⁵	4 ⁰⁰	Drill
FT				HOIST BIT # 24 @ 7713 MEASURE OUT
FT	Tour 3	4 ⁰⁰	7 ⁰⁰	HOIST BIT # 24 MEASURE OUT
TOUR		7 ⁰⁰	11 ⁰⁰	CHECK DRILL COLLARS SUBS KELLY
FEET				MARINERWELDED
FEET		11 ⁰⁰	12 ⁰⁰	CUT OFF FLOW MIDDLE
FEET				FOR AND FAN
HOURS				
00 P.M.				
12 00 P.M.				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DISSIKTAR

UNDERFLOW	Overflow	Suction	RATE	TIME
9.9	9.5	9.5	10 gal/sec	12 ⁰⁰ MIN
10.0	9.5	9.5	10 gal/sec	2 ⁰⁰ H. H.
10.0	9.5	9.5	10 gal/sec	4 ⁰⁰ H. H.
10.1	9.5	9.5	10 gal/sec	6 ⁰⁰ H. H.
10.1	9.5	9.5	1 Gal/60 sec	8" Ann
10.2	9.4	9.4	1 Gal/60 sec	10" Ann
9	9.4	9.4	1 Gal/60 sec	12" Ann
9	9.4	9.4	1 Gal/60 sec	2:00 PM

AS REPORT

CONDITION
5

SAFETY...
MAGNETIC... ALL COLLARS + SUBS ON TRIP OUT. AND KELLY

RECORD

TR	Reading
10	1 1/4
3	1

CHRISTIAN... 454... 13 1/2 hrs CUMULATIVE... 573 # 1/2
" " " 453 ... 519 1/4 HRS

CHANGE SIZERS ON TRIP.

SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD WILDCAT WELL NAME CKYT 41 CONTRACTOR Green Pits RIG NO 15
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT MARCH 19 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO <u>73</u>		FT	NO <u>73</u>		FT	NO	<u>720293</u>	FT
SINGLE	D.P.	NO. <u>1</u>	<u>724451</u>	FT	NO <u>2</u>	<u>697623</u>	FT	NO		FT
EX-OVER SUB	<u>7</u> O.D.		<u>300</u>	FT		<u>300</u>	FT		<u>300</u>	FT
OTHER	<u>1</u> <u>7</u> O.D. SUB.		<u>1200</u>	FT		<u>1200</u>	FT		<u>1200</u>	FT
DRILL COLLARS	<u>19</u> <u>7"</u> O.D.		<u>58253</u>	FT		<u>58253</u>	FT		<u>58253</u>	FT
DRILL COLLARS	<u>CURS STAG</u>	NO	<u>462</u>	FT	NO	<u>462</u>	FT	NO	<u>462</u>	FT
REAMER	O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND		FT
WARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			<u>784666</u>	FT	<u>757838</u>	FT	<u>761008</u>	FT		FT
KELLY DOWN (BELOW R.B.)			<u>1134</u>	FT	<u>2762</u>	FT	<u>4122</u>	FT		FT
DEPTH OF TOOLS			<u>755800</u>	FT	<u>760600</u>	FT	<u>765130</u>	FT		FT

TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED
	<u>7558</u>	<u>7518</u>	<u>40</u>	<u>7606</u>	<u>2558</u>	<u>48</u>	<u>7651</u>	<u>7406</u>	<u>45</u>

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	<u>1900</u>	<u>1900</u>	<u>1900</u>	<u>1900</u>	<u>1912</u>	<u>1912</u>	<u>1900</u>	<u>1900</u>	<u>1900</u>	<u>1900</u>	<u>2000</u>	<u>2000</u>
ROTARY SPEED	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>	<u>36</u>
WEIGHT ON BIT	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>	<u>45</u>
MUD WEIGHT	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.4</u>	<u>9.4</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>
VISCOSITY	<u>48</u>	<u>47</u>	<u>47</u>	<u>47</u>	<u>47</u>	<u>48</u>	<u>49</u>	<u>49</u>	<u>50</u>	<u>51</u>	<u>52</u>	<u>52</u>
W.L.F.C.		<u>8.2</u>		<u>7.6</u>	<u>7.6</u>	<u>7.6</u>	<u>7.6</u>	<u>7.6</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>
p.H.		<u>8.5</u>	<u>8.0</u>	<u>8.5</u>	<u>9.3</u>	<u>9.5</u>	<u>9.5</u>	<u>9.5</u>	<u>10.5</u>	<u>10.5</u>		
MUD LEVEL IN TANKS				<u>3.30</u>			<u>3.45</u>					

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET-HR	BIT CONDITION
<u>24</u>	<u>8 3/4</u>	<u>29168</u>	<u>HW 155R</u>	<u>2/10 1/4</u>		<u>7295</u>			

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
					Time	AM	PM	Reading	
TYPE			PREFLOW	mins	IHP	ps	IFP	ps	Time
FROM			ISI	mins	FHP	ps	FFP	ps	Mud Wt
TO			VO	mins	ISIP	ps	GTS	ps	Vis
Recovery			FSI	mins	FSIP	ps	FTS	ps	AV
HOURS			RECOVERY						PV

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
	DRILLER	DERRICKMAN	HELPER	DRILLER	DERRICKMAN	HELPER	DRILLER	DERRICKMAN	HELPER
	<u>A CHAMBERS</u>	<u>W DZIEWIKO</u>	<u>G HABER</u>	<u>A Skowron</u>	<u>M. CHINSKI</u>	<u>D. Vogel</u>	<u>Ed KRAWCZUK</u>	<u>LES WHITING</u>	<u>D. McWANEY</u>
		<u>A BIENZ</u>	<u>J FLATO</u>	<u>V. Vogel</u>	<u>W Wagstaff</u>			<u>TWARDLER</u>	<u>B JACOBSON</u>

2036 W
 CHEMICALS AD
 TOU-
 TOU-
 KELZAN 15
 GEL 500
 CAUSTIC 100
 DOWCIDE "B" 10
 WATER 40
 TOU-
 WATER 20
 DIRSIK-
 UNDERFLOW
 10.1
 10.1
 10.0
 10.0
 10.0
 10.0
 9.9
 9.8
 9.7
 9.9
 CURTISEN STA

203C WIM SHAFFER CRYT -# 022

1971		MATERIALS CHEMICALS ADDED		From		To		OTHER HOURLY OPERATING DETAIL WORK DONE	
TOUR	Kind	Amount							
TOUR 1			12 ⁰⁰	6 ⁰⁰					DRILLING.
9 3 FT			6 ⁰⁰	7 ⁰⁰					SURVEY
FT			7 ⁰⁰	7 ¹²					RIG SLOW
300 FT			7 ¹²	8 ⁰⁰					DRILLING
300 FT									
253 FT									
162 FT									
FT	TOUR 2		8 ⁰⁰	12 ³⁰					DRILL
FT	KELZAN	150 ^{##}	12 ³⁰	12 ⁰⁰					Set Rig & B.P. Rig & Survey & Comm. Stoppage
FT	GEL	500 ^{##}							Space & Log 490
FT	CAUSTIC	100 ^{##}	12 ⁰⁰	4 ⁰⁰					DRILL
FT	DOWICIDE "B"	10 ^{##}							
FT	WATER	40 Bbls							
208 FT									
122 FT									
130 FT	TOUR 3		4 ⁰⁰	6 ³⁰					L. RILL
TOUR	WATER	20 bbls	6 ³⁰	6 ⁴⁵					RIG SLOW 1800'S
1 FEET			6 ⁴⁵	12 ⁰⁰					DRILL
6 FEET									
5 FEET									
HOURS									
12:00 P.M.									

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DIESILTR

UNDERFLOW	OVERFLOW	Suction	DISCHARGE	RATE	TIME
10.1	9.5	9.5	1 GAL / 105 SEC	200/10	
10.1	9.5	9.5	1 GAL / 110 SEC	4 ⁰⁰ A.M.	
10.0	9.5	9.5	1 GAL / 100 SEC	6 ⁰⁰ A.M.	
11.0	9.5	9.5	1 GAL / 70 SEC	8 ⁰⁰ A.M.	
11.0	9.5	9.5	1 GAL / 75 SEC	10 ⁰⁰ A.M.	
10.6	9.5	9.5	1 GAL / 30 SEC	12 ⁰⁰ P.M.	
9.9	9.5	9.5	1 GAL / 25 SEC	2 ⁰⁰ P.M.	
9.8	9.5	9.5	1 GAL /		
9.7	9.5	9.5	1 GAL /		
9.9	9.5	9.5	1 GAL / 45 SEC	8 ⁰⁰ P.M.	
9.9	9.5	9.5	1 GAL / 15 SEC	10 ⁰⁰ P.M.	

CURSTENSEN STABILIZER # 454 22 3/4 HRS CUMULATIVE 560 HRS
 " " # 453 Not in STRING CUMULATIVE 319 3/4 HRS

[Signature]
 SIGNATURE COMPANY ENGINEER

CONDITION
 S REPORT
 Max Gel 0.1
 Min Gel 0.15
 LFC 0.2
 H 0.2
 ID 0.2
 A ppm 20
 L ppm 20
 CORD
 Reading
 10 1/4

5
SOBC W.M. SHARFFIER. CKYT. - 022

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	6 ⁰⁰	DRILL
		6 ⁰⁰	6 ¹⁵	DRILL
		6 ¹⁵	8 ⁰⁰	DRILL
TOUR 2		8 ⁰⁰	12 ⁴⁵	DRILL
		12 ⁴⁵	1 ⁰⁰	DRILL
		1 ⁰⁰	1 ⁴⁰	DRILL
TOUR 3		4 ⁰⁰	7 ¹⁵	DRILL
		7 ¹⁵	7 ³⁰	DRILL
		7 ³⁰	12 ⁰⁰	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DRILLING

UNIDIR. Flow	DIR. Flow	Suction	Rate	Time
10.1	9.4*	9.4	1 Gal / 70 sec	12:00 AM
10.0	9.4*	9.4	1 Gal / 85 sec	2:00 AM
10.1	9.4*	9.4	1 Gal / 75 sec	4:00 AM
10.1	9.4*	9.4	1 Gal / 70 sec	6:00 AM
10.1	9.4*	9.4	1 Gal / 85 sec	8:00 AM
10.1	9.4*	9.4	1 Gal / 85 sec	10:00 AM
10.2	9.4	9.4	1 Gal / 85 sec	12:00 PM
10.2	9.4	9.4	1 Gal / 85 sec	2:00 PM
10.2	9.4	9.4	1 Gal / 85 sec	4:00 PM
10.2	9.4	9.4	1 Gal / 85 sec	6:00 PM
10.2	9.4	9.4	1 Gal / 85 sec	8:00 PM
10.2	9.4	9.4	1 Gal / 85 sec	10:00 PM

CUMULATIVE SANDER # 45A 77 1/4 lbs
 # 453 137 1/4 lbs
 NATURE SAND 519 3/4 lbs

Signature: [Handwritten Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRK** RIG NO **15**

FIELD **WILDCAT** WELL NAME **CRYT. #1** LSD **N66° SEC 42' TWP W137' Rge 20' W**

SOBC

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **Mar 17 1971**

MUD and CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS .. D.P. NO 70	669207 FT	NO 71 672375 FT	NO 678704 FT
SINGLE .. D.P. NO 2			
X-OVER SUB .. 7" O.D.	300 FT	300 FT	300 FT
OTHER P.D. .. 7" O.D. S.S. 19	1200 FT	1200 FT	1200 FT
DRILL COLLARS .. 7" O.D.	58253 FT	58253 FT	58253 FT
DRILL COLLARS CURIS STAB NO. 462	462 FT	462 FT	462 FT
REAMER .. O.D. KIND			
STABILIZER .. O.D. KIND			
JARS KIND			
BUMPER SUB. KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	729423 FT	732590 FT	738919 FT
KELLY DOWN (BELOW R.B.)	1277 FT	2910 FT	1322 FT
DEPTH OF TOOLS	731700 FT	736500 FT	740241 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	7317 FEET	7365 FEET	7402 FEET
DEPTH START OF TOUR	7295 FEET	7317 FEET	7365 FEET
FOOTAGE DRILLED	22 FEET	48 FEET	37 FEET

Kind

TOUR 1

TOUR 2

KELZAN WATER

TOUR 3

200' Kelzan Gel
Caustic
Water

	HOURS						HOURS					
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP s.p.m. p.s.i.	62/1900	62/1900	62/1900	62/1900	63/1900	63/1900	62/1900	62/1900	61/2000	61/2000	61/2000	61/2000
ROTARY SPEED R.P.M.	36	36	36	36	36	36	36	36	36	36	36	36
WEIGHT ON BIT M.lbs.	25	35	40	40	40	40	40	40	40	40	40	35
MUD WEIGHT lb/gal	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	14	
VISCOSITY sec/qt	46	46	46	46	45	45	46	43	44	44	47	
W.L./F.C. c.c./32nd		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
pH		9.0	9.0	9.0	9.0	9.0	9.2	9.0	9.0	9.0	9.0	
MUD LEVEL IN TANKS Ft.-Ins			3.90				4.30					

WATER
 10.2
 10.3
 10.2
 10.3
 10.1
 10.3
 10.4
 9.9

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT. HR.	BIT CONDITION
24	8 3/4	29168	H.W. X SSR	7/16	7295				IN

CORE No.	No.	DST No.	FROM	TO

MUD ENGINEER'S REPORT			
Time	8 AM	AK	65
Mud Wt	9.4	Int Gr	10
Visc	47	10 Min Gr	14
AV	12	W.L.F.C.	7 1/2
P.V	13	pH	9.0
V.P	19	Stand	8
		CA. ppm	400
		CL. ppm	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	A CHAMBERS	A SKINNER	Ed KRADCHUK
DERRICKMAN	W DZIMNEKO	M. CHINSKI	LES WILKING
HELPER	G HABIR	P. Vojci	O McCune
HELPER	A BIEWZ	J. Vojci	J WANDLER
HELPER	3 FLATO	W. Wasylak	G. JACOBSON
FIREMAN			

DEVIATION RECORD		
Kind	Depth	Reading

26 BAGS OF

CHRISTIAN S

SOBC WM SHARFFER CRT # 022

1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
ON TOUR	Kind	Amount				
7 04	TOUR 1		12 ⁰⁰	12 ¹⁵		RIG SERVO.
			12 ¹⁵	2 ¹⁵		Run 1W.
			2 ¹⁵	2 ¹⁵		Put on Kelly Hose + 3/4" CIIRC.
3 00			2 ²⁰	3 ¹⁵		Chow 150' FILL.
2 00			3 ¹⁵	8 ⁵⁰		DRAG
2 53						
4 62						
	TOUR 2		8 ⁰⁰	10 ¹⁵		DRILL
	KELZAN	150 [#]	10 ¹⁵	11 ⁰⁰		See Rig Check Bulb. Rig Survey, Gamm
	WATER	50 Obs				SAVED KELLY COCK BRAKE DIS.
			11 ⁰⁰	4 ¹⁰		DRILL
9 19						
3 22						
2 41						
	TOUR 3		11 ⁰⁰	4 ¹⁵		RIG SERVO BULB
	200' Kelzan	100 [#]	4 ¹⁵	10 ¹⁵		DRAG
2	Jel	400 [#]	10 ¹⁵	11 ⁰⁰		WIRELINE SURVEY
5	Cashe	20 [#]	11 ⁰⁰	12 ⁰⁰		DRAG
7	WATER	10 [#]				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Direction	Discharge	Surveys	Rate	Time
10.0	9.3	9.4	1 GAL / 1 1/2 min	6:30 AM
10.0	9.3	9.4	1 GAL / 1 1/2 min	8:00 AM
10.3	9.3	9.4	1 GAL / 90 SEC	10:00 AM
10.2	9.4	9.4	1 GAL / 85 SEC	12:00 PM
10.3	9.4	9.4	1 GAL / 85 SEC	2:00 PM
10.1	9.4	9.4	1 GAL / 95 SEC	1:00 PM
10.3	9.4	9.4	1 GAL / 70 SEC	1:00 PM
10.4	9.4	9.4	1 GAL / 10 SEC	4:00 PM
9.9	9.4	9.4	1 GAL / 120 SEC	1:00 PM

TEST REPORT

K. 45
 at Gr. 10
 D Min Gel 12
 LFC 7 1/2
 H 90
 and 8
 A. p.p.m 400
 L. p.p.m

26 BAGS OF SAWDUST FOR INSULATING PURPOSES

Christensen Stabilizer # 454 19 hrs Cumulative hrs 519.5
 " " # 453 - NOT INSTALLED " " 519 3/4
 Signature: [Signature] SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP**

RIG NO **15**

FIELD **WILCOAT**

WELL NAME **OK 4T #1**

LSD **N66° SEC 42' T2W137** Page **20** W

SOBC WA

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MAR 16 1971**

MUD and CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO 70		FT	NO 70		FT	NO 70		FT
SINGLE .. D.P.	NO. 1	6660	42 FT	NO 1	6660	42 FT	NO 1	6660	42 FT
X-OVER SUB 7 3/4 O.D.		300	FT		300	FT		300	FT
OTHER TO. SUB O.D.		1200	FT		1200	FT		1200	FT
DRILL COLLARS .. 7 O.D.	19	582	53 FT		582	53 FT		582	53 FT
DRILL COLLARS STAR O.D.	NO.	462	FT	NO	462	FT	NO	462	FT
REAMER .. O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER .. O.D.	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		7262	57 FT		7262	57 FT		7262	57 FT
KELLY DOWN (BELOW R.B.)		1143	FT		3243	FT		3243	FT
DEPTH OF TOOLS		7274	00 FT		7295	00 FT		7295	00 FT

TOUR 1
Kelton
TOUR 2
TOUR 3

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	7274 FEET	7295 FEET	
DEPTH START OF TOUR	7037 FEET	7274 FEET	7295 FEET
FOOTAGE DRILLED	37 FEET	21 FEET	

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	62 1800				62 1800	62 1800						
ROTIARY SPEED	R.P.M. 36				36	26						
WEIGHT ON BIT	M lbs. 45				45	45						
MUD WEIGHT	lb/gal			94								
VISCOSITY	sec/qt											
W.L.F.C.	c.c./32nd											
p.H.												
MUD LEVEL IN TANKS	Ft. Ins. 363			360								

UNDERFLOW
11
11
11
11

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT. HR	BIT CONDITION
23	8 3/4	25450	HTC 267XJ	2 1/4	76	46898	7295397		2-3-1
24	8 3/4	29168	HAL X550J	2 1/4					

Temp at String

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins IHP	ps IFP	ps Time	AM	PM	AK
FROM		I.S.I	mins FHP	ps FFP	ps Mud Wt			Int. Cons
TO		V.O	mins ISIP	ps GTS	ps Visc			W.L.F.C.
Recovery		F.S.I	mins FSIP	ps FTS	ps AV			p.H.
HOURS		RECOVERY			ps PV			Solid

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Y.P.	DEVIATION RECORD		
DRILLER	<i>J. Peterson</i>	<i>A. Chambers</i>			Kind	Depth	Reading
DERRICKMAN	<i>C. Long</i>	<i>W. Danilko</i>					
HELPER	<i>B. Anderson</i>	<i>G. Habiriz</i>					
HELPER	<i>R. Turner</i>	<i>A. Brunz</i>					
HELPER	<i>J. Graham</i>	<i>E. Flato</i>					
FIREMAN							
TOOL PUSHER	<i>[Signature]</i>						

Talco 7280 3/4 *Christensen*

SOBC WM SHARPER SIC 4T

0-22

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971
ON TOUR
042 FT
300 FT
200 FT
253 FT
462 FT
FT
FT
FT
FT
250 FT
243 FT
500 FT
TOUR
FEET
5 FEET
FEET
HOURS
0 P.M. 12:00 P.M.

MUD and CHEMICALS ADDED		From	To
Kind	Amount		
TOUR 1		12 ⁰⁰	12 ³⁰
Kelzan	100 ⁰⁰	12 ³⁰	12 ⁴⁵
		12 ⁴⁵	6 ⁴⁵
		6 ⁴⁵	7 ³⁰
		7 ³⁰	8 ⁰⁰
TOUR 2		8 ⁰⁰	12 ³⁰
		12 ³⁰	12 ⁴⁵
		12 ⁴⁵	3 ³⁰
		3 ³⁰	4 ⁰⁰
TOUR 3		4 ⁰⁰	5 ⁰⁰
		5 ⁰⁰	11 ⁰⁰
		11 ⁰⁰	1 ⁰⁰
		1 ⁰⁰	12 ⁰⁰

Dalling.
Rg Service & Bops
Dalling
Siding
Dalling

DRLG
Surplus
Hoist 217 23 @ 7295
RIG SIZE BOP = RIG SAVER

MAKE UP Bit. Run in w/ R.C.s
String to 10 Lines & String New Polylines
Some of old line
Rig - 2.0 B Set Brown & Topdown
Running in

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

UNDERFLOW	OVERFLOW	TIME	MUD WT	RATE
11				
10				
10				
10				

CONDITION
3-1
S REPORT
Gel
Min. Gel
LFC
A. ppm
L. ppm
CORD
Reading

Trip at 7295 to change bit
String 10 lines

3/4 Christensen Stabilizer 454 11 1/2 hrs Cumulative 495 1/2 hrs
453 Not installing 519 3/4

L. J. Grumbly
SIGNATURE COMPANY ENGINEER

SOBC SHAEFFER CK 4T

0-22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1971				
ON TOUR				
TOUR 1		12 ⁰⁰	5 ¹⁵	Drilling
		5 ¹⁵	5 ³⁰	Kg Seawater v Boats
		5 ³⁰	8 ⁰⁰	Drilling
682	FT			
300	FT			
200	FT			
253	FT			
462	FT			
	FT			
TOUR 2		8 ⁰⁰	11 ⁰⁰	DRILL
Kuzumak	150 ^g	11 ⁰⁰	11 ⁴⁰	Seawater
Water	500 lbs.	11 ⁴⁵	12 ¹⁵	Pig Saver 30" Pig Savers
		12 ¹⁵	4 ⁰⁰	DRILL
	FT			
897	FT			
803	FT			
700	FT			
TOUR 3		4 ⁰⁰	5 ⁰⁰	Drill
GE 1	600 ^g	5 ⁰⁰	6 ⁰⁰	Sea Pipe 20"
Caustic	50 ^g	6 ⁰⁰	12 ⁰⁰	Drill
Downside "B"	10 ^g			
37 Bags of				
Sea Dust For				
Covering mats				
7	FEET			
6	FEET			
1	FEET			
	HOURS			
00 P.M.	12 00 P.M.			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

UNDERFLOW	DESILTER	OVERFLOW	Time	wt.	Rate
9.1		1.2			1 GAL / 1.2 min
10.		1			
11		1.5			
14		1			
9.8		9.3	10:40 AM	9.4	1 GAL / 1.2 min
9.9		9.3	12:00 PM	9.4	1 GAL / 2 min
9.9		9.3	8:00 PM	9.4	1 GAL / 1.2 min
10.0		9.4	10:00 PM	9.4	1 GAL / 90 SEC

TEST REPORT	
Wt. Gel	1.0
Wt. Sol	1.5
Wt. FC	8.4/2
Wt. H	9.0
Wt. S	7.5
Wt. Appm	1.0
Wt. Ppm	2.00

Christensen StabilizerTM 454 - 22 1/4 hrs Cumulative 484 hrs
 = 45.3. Not in string " 519.3 hrs

20 [Signature] SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP** RIG NO **15**

FIELD **WILCOAT** WELL NAME **CK 4T #1** LSD **N66° SE 42'** TWR **137** Rpt **20'** W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **MAR 14** 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 67 640696 FT	NO 61 643748 FT	NO 68
SINGLE D.P.	NO 2		NO 2 650185 FT
X OVER SUB 678 O.D.	300 FT	300 FT	320 FT
OTHER T.V.S. O.D.	1200 FT	1200 FT	1200 FT
DRILL COLLARS 7 O.D.	19 58253 FT	58253 FT	58253 FT
DRILL COLLARS STAB O.D.	NO. 462 FT	NO. 462 FT	NO. 462 FT
REAMER O.D.			
STABILIZER O.D.			
JARS			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	700911 FT	703963 FT	710400 FT
KELLY DOWN (BELOW R.B.)	2689 FT	3437 FT	1000 FT
DEPTH OF TOOLS	703600 FT	707400 FT	711400 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	7036 FEET	7074 FEET	7114 FEET
DEPTH START OF TOUR	6990 FEET	7036 FEET	7074 FEET
FOOTAGE DRILLED	46 FEET	38 FEET	40 FEET

DAY WORK	HOURS						HOURS					
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750	62 1750
ROTARY SPEED	36	36	36	36	36	36	36	36	36	36	36	36
WEIGHT ON BIT	45	45	45	45	45	45	45	45	45	45	45	45
MUD WEIGHT	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.1	9.1	9.4
VISCOSITY	45	45	45	45	46	48	47	47	46	46	47	47
W.L.F.C.	8.8	9.3	8.5	8.8	7.8				7.9	7.9	7.9	7.9
pH	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5	9.0	9.3	9.3	
MUD LEVEL IN TANKS	3.20	3.20	3.10	3.10			2.70					

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
23	8 3/4	25450	HRC R6715	3/16	42 1/2	6898	7114	216	W

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT
					AM
					PM
					Int. (ft)
					10 Min. (ft)
					W.C.F.
					AV
					SV
					SCAL
					CL
					DBM

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	J. PETERSEN	A. CHAMBERS	H. SKINNER	Kind	Depth	Reading
DERRICKMAN	G. LOWY	W. DEMIRKO	W. CHAMBERLAIN	TOTCO	6980	1 1/8
HELPER	C. ANDERSON	G. HARRIS	P. VOIGEL	TOTCO	7070	7/8
HELPER	R. TOLWICK	A. BRINZ	V. V. ROSE			
HELPER	J. COAHAM	J. FLEETO	W. WAGSTALL			
FIREMAN						
TOOL PUSHER						

5085

MUD CHEMICALS

TOUR 1

TOUR 2

TOUR 3

2 1/2 in. 9.8

4 1/2 in. 9.8

6 1/2 in. 9.8

8 1/2 in. 9.8

100 SAX 5

Christensen

SOL & SHAFFER CK 9T 022

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	4 ⁴⁵	Drilling
		4 ⁴⁵	5 ⁰⁰	Rg. Service & Logs
		5 ⁰⁰	8 ⁰⁰	Drilling
TOUR 2		8 ⁰⁰	1 ⁰⁰	DRILLING
	Kalena M. 100"	10 ²⁵	10 ³⁰	Pressure 30' Pressure Kelly Cook
	Water 200 lbs	10 ³⁰	4 ³⁰	DRILLING
	Chemicals 50 lbs			
	Oil 600 lbs			
TOUR 3		4 ⁰⁰	4 ¹⁵	Drill
		4 ¹⁵	5 ³⁰	Pressure 30' Pressure
		5 ³⁰	12 ⁰⁰	Drill

1971
ON TOUR
185 FT
340 FT
260 FT
253 FT
462 FT
400 FT
000 FT
400 FT
TOUR
4 FEET
4 FEET
0 FEET
HOURS
0 P.M. 12:00 P.M.
62
800 1900
6 36
5 15
219.4
7 47
2 79.2
3

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

CONDITION	V.F. WT.	M.V.L. WT.	Remarks
2 1/2"	17		19.1 P
3 1/2"	1		
4 1/2"		3	
5 1/2"			
10 1/2"	9.7	9.5	16.0 / 1 1/2 min
1 1/2"	1.2	1.1	2.1 P
2 1/2"	9.8	9.5	16.0 / 2 1/2 min
4 00 PM	9.9	9.4	16.0 / 95 SEC
6 00 PM	9.8	9.4	16.0 / 95 SEC
8 00 PM	9.8	9.4	16.0 / 1 1/2 min

100 SAK SAWDUST USED ON SUMP LEAK

Reading	Chromometer Stabilizer	Time	Cumulative	Weight
1 1/8	= 415.4	22 1/2 hrs		461 3/4 lbs
7/8	= 415.3	455 min		519 3/4 lbs

L. F. Grumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *GP*

RIG NO *15*

FIELD *WILD CAT*

WELL NAME *CK 4T #1*

LSD *N 66°* SEQ *437* TWP *N 137*

Rge *20'* W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT *MARCH 13 1971*

MUD CHEMICALS
KIND

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR							
STANDS	D.P.	NO <i>66</i>			FT	NO <i>66</i>			FT	NO <i>67</i>			FT				
SINGLE	D.P.	NO <i>1</i>	<i>62</i>	<i>81</i>	<i>30</i>	FT	NO <i>1</i>	<i>63</i>	<i>12</i>	<i>21</i>	FT	NO <i>1</i>	<i>63</i>	<i>25</i>	<i>42</i>	FT	
X OVER SUB	<i>6 1/8</i> O.D.				<i>300</i>	FT				<i>300</i>	FT				<i>300</i>	FT	
OTHER	<i>TU SUB</i> O.D.				<i>1200</i>	FT				<i>1200</i>	FT				<i>1200</i>	FT	
DRILL COLLARS	<i>7</i> O.D.	<i>19</i>	<i>5</i>	<i>82</i>	<i>53</i>	FT				<i>582</i>	<i>53</i>	FT			<i>582</i>	<i>53</i>	FT
DRILL COLLARS	<i>STAB</i> O.D.	NO			<i>462</i>	FT	NO			<i>462</i>	FT	NO			<i>462</i>	FT	
REAMER	O.D.	KIND				FT	KIND				FT	KIND				FT	
STABILIZER	O.D.	KIND				FT	KIND				FT	KIND				FT	
JARS		KIND				FT	KIND				FT	KIND				FT	
BUMPER SUB		KIND				FT	KIND				FT	KIND				FT	
BIT OR CORE BARREL						FT					FT					FT	
TOTAL D.P. & TOOLS			<i>68</i>	<i>83</i>	<i>45</i>	FT		<i>69</i>	<i>14</i>	<i>26</i>	FT		<i>69</i>	<i>27</i>	<i>57</i>	FT	
KELLY DOWN (BELOW R.B.)					<i>34</i>	FT				<i>39</i>	FT				<i>12</i>	FT	
DEPTH OF TOOLS			<i>69</i>	<i>18</i>	<i>00</i>	FT		<i>69</i>	<i>54</i>	<i>00</i>	FT		<i>69</i>	<i>00</i>	<i>00</i>	FT	
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR							
DEPTH END OF TOUR			<i>69</i>	<i>18</i>	FEET			<i>69</i>	<i>54</i>	FEET			<i>69</i>	<i>00</i>	FEET		
DEPTH START OF TOUR			<i>68</i>	<i>98</i>	FEET			<i>69</i>	<i>18</i>	FEET			<i>69</i>	<i>54</i>	FEET		
FOOTAGE DRILLED				<i>20</i>	FEET				<i>36</i>	FEET				<i>36</i>	FEET		

TOUR 1
TOUR 2
TOUR 3

GEL

DAY WORK	HOURS						HOURS						HOURS	
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.		
PUMP	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>		
ROTARY SPEED	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>		
WEIGHT ON BIT	<i>40</i>	<i>40</i>	<i>40</i>	<i>40</i>	<i>40</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>		
MUD WEIGHT	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>	<i>94</i>		
VISCOSITY	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>	<i>47</i>		
W.L.F.C.	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>	<i>72</i>		
p.H.	<i>9.3</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>		
MUD LEVEL IN TANKS	<i>276</i>	<i>270</i>					<i>340</i>					<i>330</i>		

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	HIT CONDITION
<i>23</i>	<i>8 3/4</i>	<i>25450</i>	<i>NW RC7X5</i>	<i>7/16</i>		<i>6898</i>	<i>6490</i>	<i>92</i>	<i>IN</i>

CORE No	No.	DST No	FROM		TO		MUD ENGINEER'S REPORT						
			PREFLOW	mins	FHP	ps	FPP	ps	Time	AM	PM		
			ISL	mins	FHP	ps	FPP	ps	Mud Wt				
			VO	mins	ISIP	ps	GTS	ps	Visc				
			FSI	mins	FSIP	ps	FTS	ps	AV				
			RECOVERY						PV				

SIGNATURES	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR		DEVIATION RECORD		
	Kind	Depth	Kind	Depth	Kind	Depth	Kind	Depth	Reading
DRILLER	<i>J. Peterson</i>		<i>A. Chambers</i>		<i>A. Skinnon</i>				
DERRICKMAN	<i>E. Long</i>		<i>W. Dierbeck</i>		<i>H. Christensen</i>		<i>6898</i>	<i>1 1/8"</i>	
HELPER	<i>B. Anderson</i>		<i>E. Nairer</i>		<i>P. Vogel</i>		<i>6980</i>	<i>1 1/8"</i>	
HELPER	<i>R. Turner</i>		<i>A. Bitanz</i>		<i>J. Vogel</i>				
HELPER	<i>J. Graham</i>		<i>J. F. Hata</i>		<i>W. Wagstaff</i>				
FIREMAN									
TOOL PUSHER	<i>James Hansen</i>								

UNDER FLOW
9.8
9.7
9.7
9.8
9.7

Christensen

1971	MUD and CHEMICALS ADDED			From		To	OTHER HOURLY OPERATING DETAIL WORK DONE
	Kind	Amount					
TOUR 1			12 ⁰⁰				Close Bridge @ 5230 FINISH TRIP IN, (Leave 30' to RTM) Rig Service & Bops Drilling
			2 ¹⁵	2 ¹⁵			
			2 ³⁰	2 ³⁰			
				2 ⁰⁰			
TOUR 2			8 ⁰⁰	7 ¹⁵			D.P.L.G. RIG SERVICE 30' RIG SERVICE D.P.L.G.
	K ₂ S ₂ O ₈	150 ⁺	9 ¹⁵	9 ⁴⁵			
	Caustic	1.0 ⁺	9 ⁴⁵	4 ⁰⁰			
	Water	50 Gals					
TOUR 3			4 ⁰⁰	4 ⁰⁰			Set Rig Chock Bops Jall Spare Jall
	GEL	600 ⁺	4 ¹⁵	10 ⁰⁰			
			10 ⁰⁰	10 ⁰⁰			
			12 ⁰⁰	12 ⁰⁰			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

HOURS	PM	12:00 PM	4:30	17:30
3.6				
4.3				
3 9.3				
4.1				
2 7.2				
5 9.5				
3.30				

DESILTING

	UNDERFLOW	OVERFLOW	SUCTION	Rate	Time
9 AM	9.8	9.3	9.4	1 GAL / 2 MIN	9:00 PM
9 AM	10.2	9.3	9.4	1 GAL / 1 MIN	10:00 PM

CONDITION	UNDERFLOW	OVERFLOW	SUCTION	Rate	Time
	9.8	9.3 ⁺	9.4	1 GAL / 2 MIN	9:00 PM
	9.7	9.3 ⁺	9.4	1 GAL / 1 MIN	10:00 PM
	9.7	9.4	9.4	1 GAL / 55 SEC	4:00 PM
	9.8	9.3	9.3	1 GAL / 45 SEC	6:00 PM
	9.8	9.3	9.3	1 GAL / 60 SEC	8:00 PM
	9.7	9.3	9.3	1 GAL / 60 SEC	10:00 PM

Reading	1 1/2"	1 1/8"
Christensen Stabilizer	454	20 hrs
	453	NOT in string
Cumulative	439 1/4 hrs	
	518 3/4 hrs	

Ed. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P.*

RIG NO *15*

SUBC SHA

MUD and CHEMICALS

Kind

FIELD *W160145*

WELL NAME *CK 4T #1*

LSD *N66* SEC *42* TWP *W187*

Rd# *20* W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

MAR 12

19

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR									
STANDS	D.P.	NO <i>66</i>	<i>62</i>	<i>49</i>	<i>50</i>	FT	NO <i>66</i>				FT	NO <i>66</i>				FT	
SINGLE	D.P.	NO.				FT	NO <i>62</i>	<i>81</i>	<i>30</i>		FT	NO <i>62</i>	<i>81</i>	<i>30</i>		FT	
X OVER SUB	<i>678</i> O.D.				<i>300</i>	FT				<i>300</i>	FT				<i>300</i>	FT	
OTHER TO SUBS	O.D.				<i>1200</i>	FT				<i>1200</i>	FT				<i>1200</i>	FT	
DRILL COLLARS	<i>7</i> O.D.	<i>19</i>			<i>582</i>	<i>53</i>	FT			<i>582</i>	<i>53</i>	FT			<i>582</i>	<i>53</i>	FT
DRILL COLLARS	<i>STAR</i> O.D.	NO.			<i>462</i>	FT	NO			<i>462</i>	FT	NO			<i>462</i>	FT	
REAMER	O.D.	KIND				FT	KIND				FT	KIND				FT	
STABILIZER	O.D.	KIND				FT	KIND				FT	KIND				FT	
JARS		KIND				FT	KIND				FT	KIND				FT	
BUMPER SUB		KIND				FT	KIND				FT	KIND				FT	
BIT OR CORE BARREL						FT					FT					FT	
TOTAL D.P. & TOOLS					<i>685</i>	<i>17</i>	FT			<i>688</i>	<i>34</i>	FT			<i>688</i>	<i>34</i>	FT
KELLY DOWN (BELOW R.B.)					<i>153</i>	FT				<i>955</i>	FT				<i>1455</i>	FT	
DEPTH OF TOOLS					<i>6870</i>	<i>10</i>	FT			<i>6893</i>	<i>00</i>	FT			<i>6898</i>	<i>00</i>	FT

TOUR 1
KL 2.00
...

TOUR 2
Kazuo
...

TOUR 3

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	<i>62</i>	<i>1350</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>	<i>1750</i>
ROTARY SPEED	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>	<i>36</i>
WEIGHT ON BIT	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>
MUD WEIGHT	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>	<i>9.3</i>
VISCOSITY	<i>44</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>	<i>45</i>
W.L.F.C.	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>
p.H.	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>	<i>8.5</i>
MUD LEVEL IN TANKS	<i>3.0</i>	<i>3.0</i>	<i>2.85</i>									

2.44
2.44
...
...

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 3/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
<i>22</i>	<i>8 3/4</i>	<i>298288</i>	<i>SBC H100</i>	<i>3/16 1/8</i>	<i>78 1/4</i>	<i>6605</i>	<i>6898</i>	<i>293</i>	<i>3-5-1</i>
<i>23</i>	<i>8 3/4</i>	<i>25470</i>	<i>H.W RB7x3</i>	<i>2/16 1/8</i>					

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
					Time	AM	PM	AR
					Mud Wt			
					Visc			
					AV			
					P.V.			
					CA			

Trip at 6
CHANGE ST...
...
Christen

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>J. PETERSEN</i>	<i>A. CHAMBERS</i>	<i>A. SKINNER</i>	Kind	Depth	Reading
DERRICKMAN	<i>G. Long</i>	<i>W. DIMARCO</i>	<i>M. CHINSKI</i>	<i>Total</i>	<i>1850</i>	<i>1 1/2"</i>
HELPER	<i>R. ANDERSON</i>	<i>G. HARRIS</i>	<i>P. WAGEL</i>	<i>Total</i>	<i>6898</i>	<i>1 1/2"</i>
HELPER	<i>J. GARDNER</i>	<i>A. BRENZ</i>	<i>V. VOGEL</i>			
HELPER	<i>S. TUDRICK</i>	<i>J. FLAHERTY</i>	<i>W. WAGSTAFF</i>			
FIREMAN						
TOOL PUSHER						

SORC SHAFFER CK 4T

022

19
ON TOUR
FT
13
300
200
253
462
FT
FT
FT
FT
FT
345
555
800
TOUR
8
5
5
FEET
FEET
FEET
HOURS
12:00 P.M. 12:00 P.M.

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		1200	215	DRILLING
FLUE	100	215		Key Submer, Repair Control Chamber
SHALIN	50		330	Install New Valves on
		330	800	Compound Air Compressor
				DRILLING
TOUR 2		800	1000	DRILL
Keenan	200	1000	1100	Pig Survey 1200' Pig Savers
See	200	1100	2000	DRILL
Shalins	100	2000	2300	Survey
Water	500	2300	4000	DRILL
TOUR 3		400	500	DRILL
		500	500	DRILL
		500	900	Drop Sunday
		900	900	Blow Kelly Point 3.4" #22 @ 6898
		900	1200	Set Key off on floor of new Pans. Change Stabilizer
				Run in bit 3000 @ 5:30

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

RESULTS

CONDITION	FLOW	V.F.P. or Suction RATE
2 AM	9.2	7.9
8 AM	9.2	9.7
12:00 AM	7.2	7.2
1:00 AM	7.3	7.2
2:00 AM	9.4	7.2

Trip at 6898 to change bit Hit Bridge @ 230 - circulated out
CHANGE Stabilizer Ser No. 454 at 6898 - laid down stabilizer #453

Christensen Stabilizer #453 15 hrs cumulative 514 3/4 hrs.

454 - in string at 6898 replace #453

Stabilizer 454 up from bit

Read by
0 1 1/2
8 1 1/2

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP**

RIG NO **15**

FIELD **WILDCAT**

WELL NAME **CKYT-1**

LSD **N 66° SEC 42' TWP 4127° Rge 20' W**

SOBC

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **March 11**

1971

MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS 65 D.P.	NO	6154 FT	NO 65		NO 65	
SINGLE D.P.	NO		NO 1	6186 FT	NO 2	6219 FT
X-OVER SUB 678 O.D.		300 FT		300 FT		300 FT
OTHER TO SUB O.D.		1200 FT		1200 FT		1200 FT
DRILL COLLARS 7 O.D.	19	58253 FT		58253 FT		58253 FT
DRILL COLLARS START O.D.	NO	462 FT	NO	462 FT	NO	462 FT
REAMER O.D.	KIND		KIND		KIND	
STABILIZER O.D.	KIND		KIND		KIND	
TIARS	KIND		KIND		KIND	
BUMPER SUB	KIND		KIND		KIND	
BIT OR CORE BARREL						
TOTAL D.P. & TOOLS		675650 FT		678826 FT		681995 FT
KELLY DOWN (BELOW R.B.)		28.50 FT		2774 FT		2705 FT
DEPTH OF TOOLS		678900 FT		681600 FT		684700 FT

TOUR 1
CPM
12 4 2121

TOUR 2
Gal
Wagon
Wagon

TOUR 3
38
Chaustic

TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR	6785	FEET	6816	FEET	6847	FEET
DEPTH START OF TOUR	6755	FEET	6785	FEET	6816	FEET
FOOTAGE DRILLED	30	FEET	31	FEET	31	FEET

DAY WORK	HOURS						HOURS						HOURS	
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM		
PUMP	62	62	62		62	62	62	62	62	62	62	62		
ROTARY SPEED	36	36	36	36	36	36	36	36	36	36	36	36		
WEIGHT ON BIT	45	45	45	45	45	45	45	45	45	45	45	45		
MUD WEIGHT	9.2	9.2	9.2	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3		
VISCOSITY	47	47	47	47	47	47	47	47	47	47	47	47		
W.L.F.C.	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6		
pH	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0		
MUD LEVEL IN TANKS	3.4	3.4	3.4	3.30			3.25					3.00		

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	BIT FOUND FEET
22	8 3/4	198288	2INC 4100	3/16 1/8	63 1/4	6805	6811	243	11

9 AM
12 PM
4 PM
6 PM
8 PM
10 PM

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	8	WAT	0.01
					Int. Gel			4
					Mud Wt	9.3		10 Min Gel
					Visc	44		W.L.F.C.
					pH	9.5		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	J. PATRICKSON	A. CHAMBERS	A. SKINNER	Kind	Depth	Reading
DERRICKMAN	B. LONG	W. DENVERO	W. CHAMBERS	TOTCO	6730	1'
HELPER	B. ANDERSON	G. HUBER	V. JOHNSON			
HELPER	J. BEAUMONT	A. BENTZ	V. JOHNSON			
HELPER	R. TURNER	J. FLATO	W. WAGNER			
FIREMAN						
TOOL PUSHER						

Christensen

SORC WM SHAFT-EST CK 4T 0 22

1971
 ON TOUR
 980 FT
 300 FT
 200 FT
 253 FT
 462 FT
 795 FT
 705 FT
 700 FT
 TOUR
 7 FEET
 6 FEET
 1 FEET

MUD and CHEMICALS ADDED		From	To
Kind	Amount		
TOUR 1		1300	230
		230	243
CPHOSPHATE	10 LBS	245	800
DISINFECTANT	5 LBS		
TOUR 2			
CELL	200'	1000	1030
Down hole	10'	1030	1045
Water	500 lbs	1045	400
TOUR 3		4"	2"
CAUSTIC	50	7"	7"
		7"	12"

OTHER HOURLY OPERATING DETAIL
 WORK DONE
 Drilling
 Rig Service & Reps
 Drilling
 DRPG
 Rig Service & Reps
 DRPG
 DRILL
 Rig Service & Reps
 Drilling

HOURS
 12:00 P.M.
 6.2
 11:50
 3.6
 5.45
 3.93
 7.47
 7.62
 9.3
 3.00
 9 AM
 12 noon
 2 PM
 4 PM
 6 PM
 8 PM
 10 PM
 8.5
 7
 20
 3.00
 DRD
 Reading
 1'

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

9 AM	9.5	9.3	1 GAL / 2 min
12 noon	9.9	9.37	1 GAL / 2 min
2 PM	9.8	9.3	1 GAL / 1.5 min
4 PM	9.8	9.3	1 GAL 63 sec
6 PM	9.5	9.3	1 GAL 1 1/2 min
8 PM	9.3	9.3	1 GAL / 105 SEC
10 PM	9.9	9.3	1 GAL / 1 min 32 sec

M. 12:00 P.M. 3.3 IT.

Christensen Stabilizer #453
 2 3/4 hrs Cumulative 504 3/4 hrs
 NOT IN SERVICE 419 1/2 hrs

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. WREIG** RIG NO **15**

FIELD **WINDCAT** WELL NAME **CRGT. #1** LSD **N16°** SEC **42'** TWP **41N7'** Rge **20'** W

5030

MUD AND CHEMICALS A
K-1

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 10 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR																
STANDS	DP	NO	64	60	59	19	FT	NO	64					FT	NO	64					FT					
SINGLE	DP	NO.					FT	NO	1	60	90	84	FT	NO	2	61	22	77	FT							
X-OVER SUB	6 7/8 O.D.					3	00	FT				3	00	FT				3	00	FT						
OTHER	T. 25000					12	00	FT				12	00	FT				12	00	FT						
DRILL COLLARS	7" O.D.	19				28	23	3				58	23	3				58	23	3						
DRILL COLLARS	2" O.D. SPAL2					4	62	FT	NO			4	62	FT	NO			4	62	FT						
REAMER	O.D.							FT						FT												
STABILIZER	O.D.							FT						FT												
JARS								FT						FT												
BUMPER SUB								FT						FT												
BIT OR CORE BARREL								FT						FT												
TOTAL D.P. & TOOLS						66	61	34	FT				66	72	99	FT						67	27	92	FT	
KELLY DOWN (BELOW R.B.)							28	66	FT					21	01	FT							30	08	FT	
DEPTH OF TOOLS						66	71	30	FT				67	24	00	FT							67	55	00	FT

TOUR 1
KELZAN 2
CAUTION

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	6691 FEET	6724 FEET	6755 FEET
DEPTH START OF TOUR	6660 FEET	6691 FEET	6724 FEET
FOOTAGE DRILLED	31 FEET	33 FEET	31 FEET

TOUR 2
KELZAN 2
CAUTION

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	62	62	62	62	62	62	62	62	62	62	62	62
ROTARY SPEED	36	36	36	36	36	36	36	36	36	36	36	36
WEIGHT ON BIT	45	45	45	45	45	45	45	45	45	45	45	45
MUD WEIGHT	93	93	93	93	93	93	93	93	93	93	93	93
VISCOSITY	40	41	42	43	43	43	43	44	44	44	45	45
W.L./F.C.			2.2	2.4	10	2			10.0	10.0	9.5	9.5
p.H.			9.5		10	8.5	9.5	9.5	9.5	9.5	9.5	9.5
MUD LEVEL IN TANKS								3.20				

TOUR 3
KELZAN 2
CAUTION

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
22	8 3/4	298288	SIC - H100	3/16	40	6605	6755	150	Drilling

TOUR 4
KELZAN 2
CAUTION

ORE	No.	No.	DST No	FROM	TO	MUD ENGINEER'S REPORT
TYPE			PREFLOW	mins	FHP	ps
ROM			ISI	mins	FHP	ps
O			V.O.	mins	FSTP	ps
Recovery			FSI	mins	FSTP	ps
COURS			RECOVERY			ps

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	J. PETERSON	A. CHAMBERS	H. SKINNER			
DRILLMAN	G. LAWRENCE	W. DROWICKO	H. CHAMBERS	Title	6605	1"
ELPER	B. ANDERSON	G. HARRIS	V. VOGEL	Title	6730	1"
ELPER	J. C. RAMM	A. BINZ	V. VOGEL			
ELPER	R. TURNER	J. FLATO	W. WAGSTAD			
REMAN						
COL. PUSHER						

80 BAR 2
CHRISTIANSEN 5

5030 UIM SHARFEER CKJT # 022


1971		MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
DN TOUR	Kind	Amount				
	TOUR 1			12 ⁰⁰	12 ⁰⁰	Drilling
277	Kelzan	200 [#]		12 ⁴⁵	12 ⁴⁵	P.C. 2000 BOPS
300	Cause	50 [#]		2 ¹²	2 ¹²	Drilling
200				2 ¹²	2 ¹²	Repair Compound CRR Pump
253				2 ¹²	2 ¹²	Drilling
462						
	TOUR 2			8 ⁰⁰	10 ⁰⁰	DRILL
	Kelzan	100 [#]		10 ⁰⁰	10 ⁰⁰	16 2000 2000 16 2000
	Caustic	20 [#]		10 ¹⁵	4 ⁰⁰	2 1/2 G.
492						
008						
500						
	TOUR 3			4 ⁰⁰	6 ⁰⁰	DRILL
	Kelzan	200[#]		6 ⁰⁰	6 ⁰⁰	DRILL
5	Kelzan	200 [#]		6 ⁰⁰	12 ⁰⁰	DRILL
4	Gels	1000 [#]				DRILL
1	Water	50 BBS				DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

CONDITION	W.P.S. KIPR	WINDSPEED	TEMPERATURE	WISC.	IPAT.	TIME
	9.9	9.3	9.3	9.3	75 sec/gal	10 AM
	10.1	9.3	9.3	9.3	85 sec/gal	2 PM
	9.9	9.3	9.3	9.3	90 sec/gal	5 PM
	9.9	9.3	9.3	9.3	76 sec/gal	8 PM
	9.7	9.3	9.3	9.3	74 sec/gal	10 PM

80 sac sand used on rig matting.

1" Christensen Stabilizer #453. 22 1/2 hrs. Cumulative 481 1/2 hrs
 1" " " #454. NOT installing " " 415 1/4 hrs


 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR B.M. VTBG. RIG NO 15

FIELD Wildcat WELL NAME CRYTH

LSD N.66 SEC 42 TWP (13) Rge W

SORC

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT MARCH 9 1971

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D.P.	NO <u>63</u>	<u>599588</u>	FT	NO <u>63</u>	<u>599588</u>	FT	NO <u>63</u>		FT
SINGLE	D.P.	NO <u>1</u>		FT	NO <u>1</u>		FT	NO <u>2</u>	<u>602644</u>	FT
X-OVER SUB	O.D.		<u>300</u>	FT		<u>3300</u>	FT		<u>300</u>	FT
OTHER <u>T.O.</u>	O.D.		<u>1200</u>	FT		<u>1200</u>	FT		<u>1200</u>	FT
DRILL COLLARS <u>7</u>	O.D.	<u>19</u>	<u>58253</u>	FT		<u>58253</u>	FT		<u>58253</u>	FT
DRILL COLLARS <u>2</u>	O.D.	NO	<u>462</u>	FT	NO	<u>462</u>	FT	NO	<u>462</u>	FT
REAMER	O.D.	KIND		FT	KIND		FT	KIND		FT
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND		FT
JARS		KIND		FT	KIND		FT	KIND		FT
BUMPER SUB		KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL				FT			FT			FT
TOTAL D.P. & TOOLS			<u>659803</u>	FT		<u>659803</u>	FT		<u>662859</u>	FT
KELLY DOWN (BELOW R.B.)			<u>1220</u>	FT		<u>3677</u>	FT		<u>2141</u>	FT
DEPTH OF TOOLS			<u>661025</u>	FT		<u>663500</u>	FT		<u>666000</u>	FT

TOUR 1
Recon

TOUR 2
-AA

TOUR 3
Recon
Change Mud
Gel

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<u>6610</u> FEET	<u>6635</u> FEET	<u>6660</u> FEET
DEPTH START OF TOUR	<u>6605</u> FEET	<u>6610</u> FEET	<u>6635</u> FEET
FOOTAGE DRILLED	<u>5</u> FEET	<u>25</u> FEET	<u>25</u> FEET

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/						/					
ROTARY SPEED	<u>36</u>						<u>36</u>					
WEIGHT ON BIT	<u>35</u>						<u>40</u>					
MUD WEIGHT	/						<u>93</u>					
VISCOSITY	/						<u>40</u>					
W.L.F.C.	/						<u>80</u>					
pH	/						<u>9.0</u>					
MUD LEVEL IN TANKS	/						<u>6605</u>					

2800
48
10

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES (IN 1/32)	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION
<u>22</u>	<u>8 3/4</u>	<u>29828</u>	<u>SEC H 100</u>	<u>7/16</u>	<u>17 1/2</u>	<u>6605</u>	<u>6660</u>	<u>55</u>	<u>17</u>

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT	
TYPE		PREFLOW	mins	I.H.P.	ps	Time <u>11</u> PAI <u>AK 0.1</u>
FROM		I.S.I	mins	F.H.P.	ps	Mud Wt <u>9.3</u> Int. Gr <u>4</u>
TO		V.O.	mins	I.S.I.P.	ps	Visc <u>42</u> W.L.F.C. <u>88/2</u>
Recovery		F.S.I	mins	F.S.I.P.	ps	AV <u>9.5</u>
HOURS		RECOVERY			ps	<u>10</u> Spd <u>7</u>
					ps	<u>11</u> Calc. <u>400</u>

Christensen

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	<u>Ed KAHWENK</u>	<u>J. Peterson</u>	<u>ALBERT CLANDERS</u>	Kind
MERRICKMAN	<u>LES WHITING</u>	<u>G. KONG</u>	<u>W. DIMITAKO</u>	Depth <u>6605</u>
HELPER	<u>R. MCCOY</u>	<u>B. ANDERSON</u>	<u>G. HARRIS</u>	Realign
HELPER	<u>I. WADLER</u>	<u>J. BRADMAN</u>	<u>A. GARNZ</u>	
HELPER	<u>G. JACOBSON</u>	<u>R. TURVIER</u>	<u>S. FLATO</u>	
IREVAN				
COIL PUSHER				

Christensen

SURC W. SHREVEPORT CRV 140-22

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				
12:1		12:00	12:15	Run down behind table
12:2		12:15	12:30	Make up bit table
12:3	50'	12:30		pick up heavy cement bridge
12:4			5:45	From 6322 cut
12:5		5:45	8:00	TRIP IN CHEMICALS
13:0				DRPG
TOUR 2				
13:1	AA	8:00	8:15	Run down 40' P.S. SPOURS
13:2		8:15	4:15	Drilling
TOUR 3				
13:3		4:30	5:10	DRPG
13:4	AA	5:10	5:20	Run down 15' P.S. SPOURS
13:5	Cement	5:20	8:15	DRPG
14:0	Gel	8:20	8:45	WORK TIME (TOUR 4 300-400)
14:1		8:45	12:00	DRPG

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

DISKING

WIND	Flow	Temp Flow	Suction	R.P.M.	TIME
3	9.9	9.2	9.3	1500/9000	4:50 PM
2	9.8	9.2	7.5	1500/10000	5:12 PM
1	10.0	9.3	9.3	1500/10000	11:00 PM

REPORT Christensen Blade Stabilizer 42' up from bit

0.1
 4
 8 1/2
 9.5
 7
 400

Christensen Stabilizer # 453 - 17 1/2 hrs. Cumulative 459 hrs.
 " " # 454 - NOT IN STRING " " 419 1/4 hrs

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *E.P. O'NEILL* RIG NO. *113*

FIELD *CRKT 11* WELL NAME *CRKT 11* *100 N-66 SEC 42 TWP 12131 R4 100 W*

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *MINUTE 8* 19*81*

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO <i>603</i>	<i>596425</i> FT	NO <i>68</i>	<i>596425</i> FT	NO	<i>596425</i> FT
SINGLE	D.P.	NO		NO		NO	
X OVER SUB	O.D.		<i>300</i> FT		<i>300</i> FT		<i>300</i> FT
OTHER <i>T.O. SUB</i>	O.D.		<i>1200</i> FT		<i>1200</i> FT		<i>1200</i> FT
DRILL COLLARS	O.D.	<i>14</i>	<i>58253</i> FT		<i>58253</i> FT		<i>58253</i> FT
DRILL COLLARS <i>STABILIZ</i>	O.D.	NO	<i>462</i> FT	NO		NO	
REAMER	O.D.						
STABILIZE <i>check 568</i>	KIND				<i>306</i> FT		<i>306</i> FT
JACK <i>UP SUB</i>	KIND				<i>84</i> FT		<i>84</i> FT
BUMPER <i>W/WT</i>	KIND				<i>248</i> FT		<i>248</i> FT
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS			<i>656640</i> FT		<i>656816</i> FT		<i>656816</i> FT
KELLY DOWN (BELOW R.B.)			<i>3922</i> FT		<i>3746</i> FT		<i>3746</i> FT
DEPTH OF TOOLS			<i>660562</i> FT		<i>660562</i> FT		<i>660562</i> FT
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR			<i>6605</i> FEET		<i>6595</i> FEET		<i>6605</i> FEET
DEPTH START OF TOUR			<i>6595</i> FEET				
FOOTAGE DRILLED			<i>10</i> FEET		<i>0</i> FEET		

DAY WORK	HOURS											
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP	/											
ROTARY SPEED	<i>36</i>											
WEIGHT ON BIT	<i>45</i>											
MUD WEIGHT	<i>11</i>											
VISCOSITY	<i>3</i>											
W L F C	<i>1.0</i>											
pH	<i>7.5</i>											
MUD LEVEL IN TANKS	Ft. Ins											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	RECEIVED IN TANKS	FEET	FROM	TO	REMARKS
<i>21</i>	<i>2 1/4</i>	<i>29187</i>	<i>HW 155R</i>	<i>40 1/4</i>	<i>112</i>	<i>6537</i>	<i>6605</i>	<i>68 4.2 3-1-E</i>

CORE No.	No.	DST No.	FROM	TO	REMARKS
					<i>6 1/2 D.I</i>
TYPE		PREFLOW	min. F.P.	min. F.P.	
FROM		ISI	min. F.P.	min. F.P.	<i>9.3</i>
TO		V.O.	min. F.P.	min. F.P.	<i>45</i>
Recovery		F.S.I.	min. F.P.	min. F.P.	<i>24</i>
HOURS		RECOVERY			<i>15</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	REMARKS
DRILLER	<i>Ed Krauschuk</i>	<i>J. P. ...</i>	<i>NCHIMBIRPS</i>	
DERMICKMAN	<i>Les Whitling</i>	<i>B. Long</i>	<i>W. D. ...</i>	<i>6605</i>
HELPER	<i>D. McCoug</i>	<i>B. Anderson</i>	<i>G. HNBIRP</i>	
HELPER	<i>Jim Wanda</i>	<i>J. Graham</i>	<i>A. Benz</i>	
HELPER	<i>J. Jacobson</i>	<i>K. Trench</i>	<i>J. Fiato</i>	
FOREMAN				
TOOL PUSHER	<i>James ...</i>			

Tally out
 Trippe on
 Ran in well
 Worked ma
 numerous
 that would
 large chun
 6 1/2 ft
 9.3
 45
 24
 15
 17
 8
 10
 100

MATERIALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE		
1971	Kind	Amount	From	To	
ON TOUR	TOUR 1		1245	3:15	WORK
4	25 FT		3:2	3:30	ROCK SURVEY
	FT		3:3	3:40	TUG GENV BOP
2	10 FT		11:45	12:00	HOIST MAN OVERCUT
2	10 FT				
2	13 FT		8:00	8:15	
	FT		8:15	10:30	By Service, Check Rep. by Service
	FT		10:30	11:00	Wait on magnet
2	10 FT		11:00	11:15	Make up magnet & subs
	FT		1:15		Trip in w/ magnet
2	4 FT		2:30		Pick up Kelly, Escalator
	FT		2:30		Clean bridge @ 4590 - 4610
8	16 FT				Trip in to 5660. Clean bridge
7	16 FT				5660 - 5690
5	2 FT				
TOUR	TOUR 3		4:00	5:00	Finish Running in
5	FEET	600 [±]	5:00	7:15	Align MISCWRT to station 6600 - 6605
	FEET	400 SUBS	7:15	8:00	WORK MISCWRT + JUNK SUBS ON 3rd
	FEET		8:00	11:15	HOIST MISCWRT AND 1 + 3. S. STAND 7. GHT
	FEET		11:15	1:15	CRUISE 1st MISCWRT + JUNK SUBS
	FEET				Close 4/13/14 Rm

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

UICW
 101
 101
 101

Tally out
 SLM 6667.64
 Board 6667.63
 Diff 0.03 - No. Gen. Made

6:00 P.M. 101 4.25 4.25
 Tripped out bit 2" at 6665. Evidence of iron in hole
 Ran in with magnet & junk sub - numerous bridges in hole
 Worker magnet & junk sub on bottom. Tripped out - recovered
 numerous small pieces of iron mostly unidentifiable - nothing
 that would tear up bit the way it was. Junk sub contained
 large chunks of black shale.

Signature
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR

G.I. DRILL RIG NO 13

FIELD *UNION*

WELL NAME *OKY 7*

SECTION *10-66* SEC *42* TWP *22* R *10* S *10* W

SOLIC

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

19

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR					
STANDS	DP NO				FT	NO				FT	NO				FT
SINGLE	DP NO				FT	NO				FT	NO				FT
X OVER SUB	OD				FT					FT					FT
OTHER	OD				FT					FT					FT
DRILL COLLARS	OD				FT					FT					FT
DRILL COLLARS	OD				FT					FT					FT
REAMER	OD				FT					FT					FT
STABILIZER	OD				FT					FT					FT
JARS					FT					FT					FT
BUMPER SUB					FT					FT					FT
BIT OR CORE BARREL					FT					FT					FT
TOTAL DP & TOOLS					FT					FT					FT
KELLY DOWN (BELOW RB)					FT					FT					FT
DEPTH OF TOOLS					FT					FT					FT
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR					
DEPTH END OF TOUR					FEET					FEET					FEET
DEPTH START OF TOUR					FEET					FEET					FEET
FOOTAGE DRILLED					FEET					FEET					FEET

DAY WORK	HOURS											
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM
PUMP												
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT												
VISCOSITY												
W.L.F.C												
p.H.												
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET AREA (IN ²)	ESTIMATED LIFE (HOURS)	FROM	TO
21	8 3/4	24167	L55P	7.64	6537		

CORE No.	No.	DST No.	FROM	TO	RECOVERED	RECOVERY

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>E Krawabuk</i>	<i>J P... ..</i>	<i>A SHANNERS</i>
DERRICKMAN	<i>L Whit... ..</i>	<i>G LON G</i>	<i>M DR... ..</i>
HELPER	<i>B Huberer</i>	<i>B Anderson</i>	<i>G HAR... ..</i>
HELPER	<i>A Benz</i>	<i>B Turk... ..</i>	<i>A B... ..</i>
HELPER	<i>J Fl... ..</i>	<i>J G... ..</i>	<i>J FLATO</i>
FIREMAN			
TOOL PUSHER			

KELZAN WATER

Underflow
10.3
10.7
11.2

Ran in bit
30 feet fill
on bottom
ahead.

Christ...

SOTAC W M Shafter CR VT 0-22

19 ON TOUR	CHEMICALS ADDED		From		To		OTHER HOURLY OPERATING DETAIL WORK DONE
	Kind	Amount					
4 25 FT			1300				HIGH PRESSURE TESTS CHAIN CUT - 1 FOUR 1/2 IN. 12 IN. DIAM. AT 100 PSI PRESS. & (WAS 1100) SET UP WITH CHECK BLIND RAMS Ry Service & Rep. by Savel Trip in w/Bit #21 Pull pipe, clean 80' to bit Drilling Work from past pit Drilling.
8 00 FT							
2 00 FT							
2 53 FT							
4 63 FT							
FT			800	815			
FT			815	10 00			
FT			1000	11 00			
FT			11 00	12 30			
FT			12 30	1 30			
6 40 FT			1 30				
8 60 FT							
5 00 FT							
TOUR			4 25	7 00			2 46
TOUR	KELZAN	150	7 00	7 15			156 2470 - 300'S
ST FEET	WATER	5066	7 15	12 00			12 46
5 FEET							
10 FEET							
HOURS							
0 P.M.							
12 00 P.M.							

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

TIME	DATE	TIME	DATE	TIME	DATE
6 36		7 15		7 15	
15 45		7 15		12 00	
9.3		1 30			
46		1 30			
98					
9.5					

Underflow	Overflow	Suction	Rate	Time
10.3	9.2	9.3	1000/4 sec	6:30 P.M.
10.2	9.3	9.2	1000/4 sec	9:00 P.M.
10.2	9.2	9.2	1000/4 sec	10:30 P.M.

S REPORT
 Ran in bit #21. Cleaned out bit run 80' - occasional bridge test
 30 feet full. Drilled 5' to 6" 2" - severe torque - could not rotate
 on bottom. Worked pipe for 1 hr - torque eased off - drilled
 ahead.

Christensen Stabilizer #453 - 12 3/4 hrs Cumulative 43 7/14 hrs
 " " " " #454 - not in string 419 1/14 hrs

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR G. F. ORRIG RIG NO 12
LSD 14-66 SEC 42 TWP 137

S-8C UNIT

FIELD WILCAT WELL NAME 14-66
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

MARCH 6 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO 62	5901.05 FT	5901.05 FT	5901.05 FT
SINGLE D.P. NO 5			
X OVER SUB O.D.	300 FT	300 FT	
OTHER O.D.			
DRILL COLLARS O.D. 19	582.53 FT	582.53 FT	582.53 FT
DRILL COLLARS O.D. NO	462 FT	462 FT	462 FT
REAMER O.D. KIND	1200 FT	1200 FT	1200 FT
STABILIZER O.D. KIND			
JARS O.D. KIND			
BUMPER SUB O.D. KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	6503.20 FT		6503.20 FT
KELLY DOWN (BELOW R.B.)	23.22 FT		23.80 FT
DEPTH OF TOOLS	6526.42 FT		6527.00 FT

6527
Kellon
6527
6528
6527

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	6528 FEET		6537 FEET
DEPTH START OF TOUR	6505 FEET		6528 FEET
FOOTAGE DRILLED	23 FEET		9 FEET

	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	
PUMP S.P.M. P.S.I.	53/60	53/60	53/60					1800/63	1800/63			
ROTARY SPEED R.P.M.	48	48	48					26	36			
WEIGHT ON BIT M.lbs.	35	35	35					40	40			
MUD WEIGHT lb.gal								9.3				
VISCOSITY sec.qt								46				
W.L.F.C. c.c. 32nd												
p.H.												
MUD LEVEL IN TANKS Ft. Ins												

110
100
100
100
100
6 PM

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS
19	8 3/4	711390	Sec H88	3-9	53 1/4	6266	6528	252
20	8 3/4	212184	Sec H88	7/8 1/10		6528		

Trip at 6528
cones. loc.
Blind v

CORE No	No	DST No	FROM	TO	REMARKS
TYPE		PREFLOW	mins. H.P.	mins. H.P.	5 1/2
FROM		ISI	mins. H.P.	mins. H.P.	7.3
TO		VO	mins. H.P.	mins. H.P.	45
Recovery		F.S.I	mins. H.P.	mins. H.P.	20
HOURS		RECOVERY			12

Ran in bit
Chained?
seat was
Hite very
10th stan
Kelly before

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed Kowalski	Jim Peterson	A CHAMBERS
DERRICKMAN	Les White	G Long	W. P. WILKINS
HELPER	D. McFarley	B. Anderson	B. WILKINS
HELPER	J. Waudler	Jim Graham	A. B. WILKINS
HELPER	C. Jacobsen	Bob Turner	J. FLITTO
FIREMAN			
TOOL PUSHER			

Christensen

SUBC UTM SURFACE CRV # 0-22

ON TOUR	CHEMICALS ADDED		From		To		OTHER HOURLY OPERATING DETAIL WORK DONE
	Amount	Amount	12:00	12:15	12:15	6:15	
1071							RIG SERVO STOP
465 FT	Kelena	50 ^{lb}	6:15	6:35	6:15	8:00	Surf 6528
FT			6:35	8:00			Close Kelly Head out 19
253 FT							
463 FT							
200 FT	TOUR		8:00	10:00			Hoisting
FT			10:00				Rig Service start desander
FT							Throw out standard
FT			11:00	12:15			Finish Hoisting Change bits
FT			12:15	1:00			Run in D.C
320 FT			1:00	2:00			Slip & cut line
3280 FT			2:00	4:00			Run in
3750 FT	TOUR		4:15	4:45			Finish Running in
FT			4:45	4:20			Throw Kelly out of Pat. Hole
FT			4:20	5:20			Break Circ + Churn 20 to Bottom
FT			5:20	8:30			W.P.L.G.
FT			8:30	10:30			Losing 2 Press Check Pumps + Surfactant
FT			10:30	11:5			Hoist Hole Tight Pick up Kelly Pump on
FT							Swirl
FT			11:5	12:0			Hoisting Hole Tight w/ P.D.I.E.

CEMENTING, TESTING, TISHING, RECORD JOB DETAILS - INCLUDING ENGINEERING SUMMARIES

TIME	FLOW	WATER	WATER
2:00	10.0	1.2	1.2
3:00	10.0	1.2	1.2
4:00	9.7	1.2	1.3
6:00 PM	10.2	9.3	9.3

1-1 Trip at 6528 to change bit. Last row of buttons broken at all cones. Base button insert pulled out on outside row. Blind run checked for open & close - O.K. Kelly.

Ran in bit # 20 - drilled 9 feet - had 600 psi pressure drop. Chained Tony out at hole. Jet nozzle 9/32 gone Jet nozzle seat washed. Bit otherwise in good shape. Hole very tight tripping out - had to pump out 1st 4 singles. 10th stand stuck for 15 minutes while circulating with Kelly before coming loose. Remainder of hole good.

28 3/4
 Christensen Stabilizer #453 9 hrs Cumulative 495 1/2 hrs, 42' up
 " " " #454 - not in string Cumulative 415 1/4 hrs.
 [Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP DRLG** RIG NO **15**
 LSD **N-66 SEC 42 TWP W-137** Rpt **10** W

5013C W

FIELD **WILDCAT** WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 5 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR			
STANDS	DP NO 61	5806	05 FT	NO 61	5806	05 FT	NO 61	5862	46 FT
SINGLE	DP NO 1								
CROSS OVER SUB	OD		300 FT		300	00 FT			
OTHER	OD								
DRILL COLLARS	19 OD								
DRILL COLLARS	OD NO	582	53 FT	NO	582	53 FT	NO	582	53 FT
REAMER	OD KIND		462 FT		462	FT		462	FT
STABILIZER	OD KIND		1200 FT		1200	FT		1200	FT
GAIRS	KIND								
BUMPER SUB	KIND								
BIT OR CORE BARREL									
TOTAL DP & TOOLS		6408	20 FT	6439	98 FT		6471	61 FT	
KELLY DOWN (BELOW R B)		22	22 FT	28	2 FT		33	39 FT	
DEPTH OF TOOLS		6430	42 FT	6468	00 FT		6505	00 FT	
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR			
DEPTH END OF TOUR		6450 FEET		6468 FEET		6505 FEET			
DEPTH START OF TOUR		6385 FEET		6430 FEET		6468 FEET			
FOOTAGE DRILLED		45 FEET		38 FEET		37 FEET			

Get

Get

	HOURS								HOURS				
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM	
PUMP	6			63	10				12	62	100	53	33
ROTARY SPEED			30	30	30				34	48	34	48	34
WEIGHT ON BIT	30	30	30	35					35	35	35	35	
MUD WEIGHT	9.2	9.2	9.1	9.1			3		9.3	9.3	9.3	9.2	
VISCOSITY	45	45	45	45					45	45	45	45	
W.L.F.C	10		10	2					9.5		9.0		
pH				10									
MUD LEVEL IN TANKS													

4 PM
 7:40
 11:00

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO
19	8 3/4	911390	SEC H88	3/9		6266	

CORE No.	No	DST No	FROM	TO	MUD ENGINEER'S REPORT				
					Time	8	20	AN	005
					Mud Wt	9.3			10
					Vis	44			12/2
					Wt	24			90
					Wt	14			8
					Wt	20			50
					Wt				480

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	ED HRAWICHUK	W Peterson	A CHAMBERS
DERRICKMAN	L WHITING		W DIRVIRKO
HELPER	D McCURRIS	B. Anderson	G HABER
HELPER	J WANDLER	J. Bladner	A BIENZ
HELPER	G JACOBSON	R Tordal	J FALTO
FIREMAN			
TOOL PUSHER			

Kind	Depth	Results
TOTCO	6440	1 3/4

Christensen S

5013C Wm Shafter CK 47 0-22

1971		CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	Amount					
246 FT		12 ⁰⁰	11 ⁰⁰			DRIG
		11 ¹⁵	11 ⁰⁰			...
		11 ¹⁵	8 ⁰⁰			...
253 FT						
462 FT		9 ⁰⁰	11 ¹⁵			Drilling
200 FT		11 ¹⁵	12 ⁰⁰			Survey by Service & Logs
		12 ⁰⁰	4 ⁰⁰			Drilling
161 FT	Gel	300 ^g				
339 FT						
500 FT						
TOUR	Gel	300 ^g	4 ⁰⁰	8 ⁴⁵		DRIG
51 FEET			8 ⁴⁵	9 ⁰⁰		RIG SHUT
8 FEET			9 ⁰⁰	9 ¹⁵		w/on Pumps
7 FEET			9 ¹⁵	12 ⁰⁰		DRIG

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Driller

Time	1. Flow	2. Flow	3. Flow
5:35			
2:42			
3:42			
4:00			
11:00			
2:00			
4 PM			
REPORT	10.4	9.3	9.2 1000/75 sec
	10.13	9.8	9.2 1000/30 sec

Chromasone Stabilizer # 453 22 1/2 hrs Cumulative 416 1/2 hrs
 " 454 - NOT in string " " 419 1/4 hrs

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR

PT DRAS - NO 15

FIELD WILDCAT WELL NAME

USD N-66 SEC 42 TWP W 13 R 4

2130

DRILLING [] DEEPENING [] COMPLETING

REDRILLING [] ABANDONING [] REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

MARCH 4

1971

Main data table with columns for Drilling Assembly, End of Morning Tour, End of Daylight Tour, End of Afternoon Tour, and various tool measurements.

Day Work table with columns for hours from 2:00 AM to 11:00 PM and rows for Pump, Rotary Speed, Weight on Bit, Mud Weight, Viscosity, W/L F.C., pH, and Mud Level.

Table with columns for No., Size, Serial, Bit Kind and Type, Jet Size, and other technical specifications.

Table with columns for Signatures, Morning Tour, Daylight Tour, and Afternoon Tour, listing names of personnel.

Handwritten notes on the right side of the page, including 'OK', '2130', and '7:30 PM'.

5080 WNW SHAFTS CR 4 T M

1971
 N TOUR
 721 FT
 FT
 FT
 FT
 253 FT
 462 FT
 200 FT
 1 FT
 1 FT
 FT
 FT
 636 FT
 864 FT
 500 FT
 TOUR
 5 FT
 0 FT
 5 FT
 HOURS
 10:30 PM
 63
 210
 6 36
 5 35
 3
 2 00 AM
 4 00 AM
 6 00 AM
 8 00 AM
 10 AM
 12 PM
 1 PM
 7:30 PM
 9:00 PM
 0 05
 15
 11 1/2
 9.0
 40
 450
 1 1/2

CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Amount				
		1200	100	DRPG
		100	115	Rig Survey
		1 1/2	800	DRPG
TOUR				
		800	1100	Drilling
CELT	1200	1100	1115	Rig Survey & Bays
M. L. H.	10	1115	400	Drilling
CELT	10			
Water	50			
TOUR				
CELTIC	50	400	400	DRPG
		400	300	offshore Survey & Rig SURV. Bays
		300	1200	DRPG

CEMENTING TESTING RECORDS FOR DETAILS INCLUDING ENGINEERING SUMMARIES

Disiller

Time	11600	12000	12400	12800	Notes
2:00 AM	0.4	1.2	1.2	1.2	10 min
4:00 AM	10.7	12.0	12.0	12.0	10 min
6:00 AM	10.0	10.0	10.0	10.0	10 min
8:00 AM	10.7	10.0	10.0	10.0	10 min
10 AM	10.0	10.0	10.0	10.0	
12 PM	10.0	10.0	10.0	10.0	
1 PM	10.0	10.0	10.0	10.0	
7:30 PM	10.4	9.3	9.3	9.3	10 min 50 sec
9:00 PM	10.0	9.0	9.0	9.0	
10:05 PM	10.0	9.2	9.2	9.2	10 min 60 sec

C. K. Jensen Stabilizer #453 - 22 3/4 hrs Cumulative 394 hrs
 #454 - not in string " 419 1/4 hrs

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GD DRLG** RIG NO **157**
 (SD) **N-66 SEC 42 TWP W127 R4 20 W**

5060

FIELD **Wildcat** WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 11 MIDNIGHT

March 3 1971

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS D.P. NO			571280 FT	NO 1	571280 FT	NO 59			
SINGLE D.P. NO				NO 1	3002 FT	NO 2	5742	10	
X OVER SUB O.D.			300 FT		300 FT				
OTHER O.D.									
DRILL COLLARS 7 O.D. NO 16			49076 FT		49076 FT		582	53	
DRILL COLLARS STAB O.D. NO			462 FT	NO	462 FT	NO		462	
REAMER TOP O.D. KIND			1200 FT	KIND	1200 FT	KIND		1200	
STABILIZER O.D. KIND				KIND		KIND			
JARS KIND				KIND		KIND			
BUMPER SUB KIND				KIND		KIND			
BIT OR CORE BARREL									
TOTAL D.P. & TOOLS			622318 FT		625320 FT		6250	16	
KELLY DOWN BELOW R.B.			2522 FT		1280 FT			1982	
DEPTH OF TOOLS			624840 FT		626600 FT		6270	00	
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			6248 FEET		6266 FEET		6270		
DEPTH START OF TOUR			6213 FEET		6248 FEET		6266		
FOOTAGE DRILLED			35 FEET		18 FEET		4		

DAY WORK	HOURS											
	2:30 AM	4:00 AM	6:00 AM	8:30 AM	11:30 AM	12:30 AM	2:30 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP S.P.M. D.S.	62	62	62									
ROTAARY SPEED R.P.M.	38	38	38						36	36		
WEIGHT ON B.T. M lbs	40	40	40						40	40		
MUD WEIGHT lb gal	13	13	13									
VISCOSITY sec at												
W.L.F.C. cc 32nd	100	100	100									

pH
 MUD LEVEL IN TANKS Ft lbs

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET DOWN	WAL	FRIM	TO
18	8 3/4	71675	seSG3	3/4		266	111
19	8 3/4	711390	Sue. H88	3/4	35	6266	

Rick up
 Col. mid

CORE No	No	DST No	FRIM	TO

Trip at 6
 no one

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed MRAWCHUK & Peterson		A CHAMBERS
DERRICKMAN	LES WHITING & Long		W DREWKO
HELPER	D McCURRY B ANDERSON		C HAIBAR
HELPER	J WANDLER B TUSNAK		A BIZINZIE
HELPER	G JACOBSON & BARNARD		J. FLATO
FIREMAN			
TOOL PUSHER			

Christensen

TOUR REPORT

CONTRACTOR **GP Drilling** WELL NO **15**

5080

FIELD **WINDCAT** WELL NAME

SECTION **N-66 SEC 47 TWP W-17 R-20**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **MARCH 2 1971**

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO 59	FT	NO 29	565252	FT	NO 60	566812	FT
SINGLE	DP	NO 1	561813	FT	NO 2	564952	FT		
X-OVER SUB	OD			FT			FT		
OTHER	OD			FT			FT		
DRILL COLLARS	7 ¹⁶ O.D.	NO 16	49076	FT	NO 16	49076	FT	NO 16	49076
DRILL COLLARS	7 ³ O.D.	NO 7	462	FT	NO 7	462	FT	NO 7	462
REAMER	7 ⁷ O.D.	KIND	1200	FT	KIND	1200	FT	KIND	1200
STABILIZER	7 ⁷ O.D.	KIND	300	FT	KIND	300	FT	KIND	300
JARS				FT			FT		
BUMPER SUB				FT			FT		
BIT OR CORE BARREL				FT			FT		
TOTAL D.P. & TOOLS			612851	FT		615990	FT		621300
KELLY DOWN BELOW R.B.			3669	FT		2822	FT		2150
DEPTH OF TOOLS			616520	FT		618812	FT		621300
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			6165	FEET		6188	FEET		6213
DEPTH START OF TOUR			6155	FEET		6165	FEET		6188
FOOTAGE DRILLED			10	FEET		23	FEET		28

DAY WORK	HOURS							
	2:30 AM	4:00 AM	5:30 AM	7:00 AM	8:30 AM	10:00 AM	11:30 AM	12:00 PM
PUMP	150	150	150	170	170	170	180	
ROTARY SPEED	38	38	38	38	38	38	38	
WEIGHT ON BIT	35	35	35	40	40	40	42	
MUD WEIGHT	93	93	93					
VISCOSITY	45	47	47					
W.L.F.	112	112	112					
PH	9.5	9.5	9.5					
MUD LEVEL IN TANKS								

NO	SIZE	SERIAL	BIT KIND	NO	DATE	TIME	BY
18	8 3/4	77675	Ring	SCS G-J	3/19	2014	6155 6213 58

CORE No	NO	DST No	PREFLOW	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	H SKINNER	Ed KRAUCHER	A CHAMBERS
DERRICKMAN	M. C. HURSK	LES WHITING	G. LONG
HELPER	P. JOGAI	D. MACAUGH	B. ANDERSON
HELPER	V. JOGAI	I. WANDLER	B. TURNER
HELPER	W. WAGS-NIP	J. JACOBSON	S. BRANNEN
FIREMAN			
PUSHER			

Decision
 1:00
 3:00
 6:00
 12:00
 2:00
 5:00
 12:00

Christensen

SOBC Wm Shafter CK 17-0-22

OTHER HOURLY OPERATING DETAIL WORK DONE

1971	MEASUREMENTS	AMOUNTS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR 1	12:00		12:00	1:00	Run in
	1:00		1:00	1:15	Check 9 Check Bulb
	1:15		1:15	3:00	Check 13 1/2 Bottom
	3:00		3:00	8:00	Work
TOUR 2	9:00		9:00	10:00	DRILL
	10:00		10:00	10:15	Run 500 Clean Core
	10:15		10:15	11:00	DRILL
TOUR 3	11:00		11:00	12:00	DRILL
	12:00		12:00	12:15	Run 500 - 300'S
	12:15		12:15	12:30	DRILL

Time	Injection Flow	Injection	Discharge	Remarks
6:38	Disidite			
6:42	Time			
7:00	3.0	12	4.0	BAL 110 SEC
7:30	4.0	12	13	11:00 11:00
8:00	6.0	12	13	10:00 11:00
12:00 P.M.	6.2	12	8.1	
9:00 P.M.	10.6	12	13	
9:30	10.6	12	13	
10:00	10.4	12	13	
12:00	11.2	12	13	

Christensen Stabilizer #453 - 20 1/4 hrs Cumulative 356 1/2 hrs - 42 up
 454 - not in string 419 1/4 "

0.1
 4
 13
 0.4/2
 9.0
 7.5
 432

1 1/4

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.**
 FIELD **W 1d cat** WELL NAME **N 66° 42'**
 LSD **W 137° SEC 20' TWP**

RIG ID **15**
 Rge **W**

SCBC

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **Jan 25 1971**

DRILLING ASSEMBLY			END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR					
STANDS	D.P.	NO.				FT	NO.				FT	NO.				FT
SINGLE	D.P.	NO.				FT	NO.				FT	NO.				FT
X-OVER SUB	O.D.					FT					FT					FT
OTHER	O.D.					FT					FT					FT
DRILL COLLARS	O.D.					FT					FT					FT
DRILL COLLARS	O.D.	NO.				FT	NO.				FT	NO.				FT
REAMER	O.U.	KIND				FT	KIND				FT	KIND				FT
STABILIZER	O.D.	KIND				FT	KIND				FT	KIND				FT
JARS		KIND				FT	KIND				FT	KIND				FT
BUMPER SUB		KIND				FT	KIND				FT	KIND				FT
BIT OR CORE BARREL						FT					FT					FT
TOTAL D.P. & TOOLS						FT					FT					FT
KELLY DOWN (BELOW R.B.)						FT					FT					FT
DEPTH OF TOOLS						FT					FT					FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		FEET	FEET
DEPTH START OF TOUR		FEET	FEET
FOOTAGE DRILLED		FEET	FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:30 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
W.L.F.C.	/											
p.H.	/											
MUD LEVEL IN TANKS	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FT HR	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT						
TYPE			PREFLOW	mins	HP	ps	IFP	ps	Time	A.M.	AK
FROM			ISI	mins	FHP	ps	F.F.P.	ps	Mud Wt	10 Min	Gal
TO			VO	mins	F.F.P.	ps	G.T.S.	ps	Visc	W.L.F.C.	
Recovery			F.S.I	mins	F.F.S.I.P.	ps	F.F.T.S.	ps	A.V.	p.H.	
HOURS			RECOVERY						P.V.	Sand	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>A Chambers</i>	<i>A Skowron</i>	<i>C FRASEK</i>	Kind	Depth	Reading
ERRICKMAN	<i>W Denesko</i>	<i>M CHENISKI</i>	<i>C FRASEK</i>			<i>1205 1 1/4</i>
ELPER	<i>C Haberer</i>	<i>P. VOQUEL</i>	<i>J. RAUER</i>			
ELPER	<i>A Bury</i>	<i>V. VOQUEL</i>	<i>C JOCESSON</i>			
ELPER	<i>J. Flato</i>	<i>W. WAGSTAFF</i>	<i>J. WANDER</i>			
REMAN	<i>[Signature]</i>					
DOL. PUSHER	<i>[Signature]</i>					

*Pressure w
and diesel
Blind Rammer
Pressure Test
back pipe
Pressure Test
1600 psi for
Pressure Test
psi - O.K.
Pressure Test
Pressure Test
manifold a ft
Pressure Test
Pressure Test*

TOUR REPORT

CONTRACTOR **G.P.**
 FIELD **W 1d cat** WELL NAME **N 66° 42'**
 LSD **W 137° SEC 20' TWP**

RIG ID **15**
 Rge **W**

SCBC

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT **Jan 25 1971**

DRILLING ASSEMBLY			END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR					
STANDS	D.P.	NO.				FT	NO.				FT	NO.				FT
SINGLE	D.P.	NO.				FT	NO.				FT	NO.				FT
X-OVER SUB	O.D.					FT					FT					FT
OTHER	O.D.					FT					FT					FT
DRILL COLLARS	O.D.					FT					FT					FT
DRILL COLLARS	O.D.	NO.				FT	NO.				FT	NO.				FT
REAMER	O.U.	KIND				FT	KIND				FT	KIND				FT
STABILIZER	O.D.	KIND				FT	KIND				FT	KIND				FT
JARS		KIND				FT	KIND				FT	KIND				FT
BUMPER SUB		KIND				FT	KIND				FT	KIND				FT
BIT OR CORE BARREL						FT					FT					FT
TOTAL D.P. & TOOLS						FT					FT					FT
KELLY DOWN (BELOW R.B.)						FT					FT					FT
DEPTH OF TOOLS						FT					FT					FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		FEET	FEET
DEPTH START OF TOUR		FEET	FEET
FOOTAGE DRILLED		FEET	FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:30 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
W.L.F.C.	/											
p.H.	/											
MUD LEVEL IN TANKS	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	FT. HR.	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE			PREFLOW	mins	HP	ps	IFP	ps	Time
FROM			ISI	mins	FHP	ps	FEP	ps	Mud Wt
TO			VO	mins	FHP	ps	GTS	ps	Visc
Recovery			F.S.I	mins	F.S.I.P	ps	F.T.S	ps	A.V
HOURS			RECOVERY						P.V

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>A Chambers</i>	<i>A Skowron</i>	<i>C FRASEK</i>	Kind	Depth	Reading
ERRICKMAN	<i>W Denesko</i>	<i>M CHENISKI</i>	<i>C FRASEK</i>			<i>1205 1 1/4</i>
ELPER	<i>C Haberer</i>	<i>P. VOQUEL</i>	<i>J. RAUER</i>			
ELPER	<i>A Bury</i>	<i>V. VOQUEL</i>	<i>C JOSEPHSON</i>			
ELPER	<i>J. Flato</i>	<i>W. WAGSTAFF</i>	<i>J. WANDER</i>			
REMAN	<i>[Signature]</i>					
DOL. PUSHER	<i>[Signature]</i>					

*Pressure w
and diesel
Blind Ramo d*

*Pressure Test
back pipe*

*Pressure Test
1600 psi for
Pressure Test
psi - O.K.
Pressure Test
Pressure Test
manifold a ft
Pressure Test
Pressure Test*

SOBC WM Shafter CKVT #1

1971

TOUR

FT

FT

FT

FT

FT

FT

FT

FT

FT

FT

FT

FT

FT

FT

FT

TOUR

FEET

FEET

FEET

HOURS

P.M. 12:00 P.M.

OTHER HOURLY OPERATING DETAIL
WORK DONE

MUD & CHEMICALS ADDED

From

To

TOUR

Amount

12⁰⁰

6⁰⁰

Finish rig up BOP, and
hook up steam line under manifold
Pressure up on blind rams
to 1600 psi for 30 min
Flare out blocks
Pressure test w/ B.S unit
using diesel fuel

TOUR 2

8⁰⁰

8¹⁵

Service R.V.
Make up bit & ball sub & run
in hole

8¹⁵

9³⁰

Distribute 10 bbl diesel
fuel to annulus

9³⁰

10⁰⁰

Close pipe rams and pressure
test to 1500 psi for 20 min
Pressure test Hydril & BOP valves

10⁰⁰

1⁰⁰

4⁰⁰

TOUR 3

11⁰⁰

Repair valve on manifold
Pressure manifold to 1500 psi
Pressure flare line & rock valve on
manifold to 1500 psi
Pressure test Kelly cock 1500 psi
Pressure test stabbing valve 1500 psi

12⁰⁰

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Pressure up blind rams to 1600 psi using B.S pumper
and diesel fuel. Held pressure for 30 minutes - no bleed
back. Blind Rams O.K.

Pressure test pipe rams to 1500 psi - 20 minutes - no bleed
back. pipe rams O.K.

Pressure test Hydril & inside valves on kill & flow line to
1600 psi for 15 minutes - no bleed back - Hydril & inside valves O.K.

Pressure test Hydril and outside valves on kill & flow line to 1500
psi - O.K.

Pressure test check valve on kill line to 1500 psi - 15 min - O.K.

Pressure test all valves on manifold and flare line to 1500 psi
manifold & flare line O.K.

Pressure tested Kelly cock to 1400 psi - held - Kelly cock O.K.

Pressure tested stabbing valve to 1500 psi - O.K.

L. J. G. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. DRIG* RIG NO *15*
 FIELD *WINDCAT* WELL NAME *N 66" 42'* LSDW *157* SEC *10* TWP Rgr W

5036

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT *Jan 23* 1971

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS <i>4 1/2</i> D.P.	NO <i>6</i>		<i>56726</i> FT	NO			NO		
SINGLE D.P.	NO <i>2</i>		<i>6320</i> FT	NO			NO		
X OVER SUB <i>7"</i> O.D.			<i>300</i> FT						
OTHER <i>7"</i> O.D.			<i>49105</i> FT						
DRILL COLLARS O.D.									
DRILL COLLARS O.D.	NO			NO			NO		
REAMER O.D.	KIND			KIND			KIND		
STABILIZER O.D.	KIND			KIND			KIND		
JARS	KIND			KIND			KIND		
BUMPER SUB	KIND			KIND			KIND		
BIT OR CORE BARREL									
TOTAL D.P. & TOOLS									
KELLY DOWN (BELOW R.B.)			<i>3900</i> FT						
DEPTH OF TOOLS			<i>116301</i> FT						

TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR									
DEPTH START OF TOUR			<i>1205</i> FEET						
FOOTAGE DRILLED									

DAY WORK	HOURS											
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP <i>s.p.m.</i> <i>p.s.i.</i>												
ROTARY SPEED <i>R.P.M.</i>												
WEIGHT ON BIT <i>M.lbs.</i>												
MUD WEIGHT <i>lb/gal.</i>												
VISCOSITY <i>sec/qt.</i>												
W.L.F.C. <i>c.c. 32nd.</i>												
p.H.												
MUD LEVEL IN TANKS <i>Ft.-Ins.</i>												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1, 2	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION

CORE No.	No.	DST No.	FROM				TO				MUD ENGINEER'S REPORT		
			PREFLOW	mins.	I.H.P.	p.s.i.	I.F.P.	p.s.i.	Time	AM	PM	Alk	
			I.S.I.	mins.	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt			10 Min. Gel	
			V.O.	mins.	I.S.I.P.	p.s.i.	G.T.S.	p.s.i.	Visc			W.L.F.C.	
			F.S.I.	mins.	F.S.I.P.	p.s.i.	F.T.S.	p.s.i.	A.V.			p.H.	
			RECOVERY						P.V.			Solid	
									Y.P.			C.A. ppm	
												C.L. ppm	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	<i>R. DAMBROS</i>	<i>A. S. ...</i>	<i>C. ...</i>			
DERRICKMAN	<i>W. DAMBROS</i>	<i>M. ...</i>	<i>J. ...</i>			
HELPER	<i>G. HARBIR</i>	<i>P. ...</i>	<i>J. ...</i>			
HELPER	<i>R. BIRN</i>	<i>V. ...</i>	<i>J. ...</i>			
HELPER	<i>J. I-KATO</i>	<i>B. ...</i>	<i>J. ...</i>			
FIREMAN						
TOOL PUSHER						

8:45 am - dro
and ...
annulus app
Cleaned
down 2 feet
Completed
...

8:00 pm - usual
...

S O B C W M Shafter CK Y T #1

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	8 ⁰⁰ 7 ⁰⁰	CIRC w/ WARM WATER
TOUR 2		8 ⁰⁰	4 ⁰⁰	Circulate surface casing w/ warm water
TOUR 3		4 ⁰⁰	12 ⁰⁰	Circulate inside surface casing with warm water +60°

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

8⁰⁰ AM - drove 1" pipe 10' down in annulus between surface pipe and conductor 661 - would not go any further. cement in annulus appears to be setting up.

Cleaned out annulus between conductor & surface casing down 2 feet - Recemented with normal cement plus 3% soda. Cemented bottom foot of collar. 15 sac cement - 1/2 sac collar

Bit box tie down for flare line 29 sac cement
2 sac collar

8⁰⁰ PM - cement sampler taken from annulus after cementing with one inch pipe setting up 8.40

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRUG** RIG NO **15**

FIELD **WIDEOR** WELL NAME **N 66° 42'**

LSD **137°** SEC **20'** TWP Rge W

SOBC WM.

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **JAN 22 1971**

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS 4 1/2" DP	NO 6	56726	FT	NO 6	56726	FT	NO 6	56726	FT
SINGLE DP	NO 2	6370	FT	NO 2	6370	FT	NO 2	6300	FT
X OVER SUB OD			FT			FT			FT
OTHER OD		300	FT		300	FT		300	FT
DRILL COLLARS 7" OD	16	49105	FT		49105	FT			FT
DRILL COLLARS OD	NO		FT	NO		FT	NO		FT
REAMER OD	KIND		FT	KIND		FT	KIND		FT
STABILIZER OD	KIND		FT	KIND		FT	KIND		FT
JARS	KIND		FT	KIND		FT	KIND		FT
BUMPER SUB	KIND		FT	KIND		FT	KIND		FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS			FT			FT			FT
KELLY DOWN (BELOW R.B.)		3900	FT		3900	FT		3900	FT
DEPTH OF TOOLS		116301	FT		116301	FT		116301	FT
TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			FEET			FEET			FEET
DEPTH START OF TOUR		12057	FEET			FEET		1225	FEET
FOOTAGE DRILLED			FEET			FEET			FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP s.p.m. p.s.i.	/											
ROTARY SPEED R.P.M.	/											
WEIGHT ON BIT M lbs.	/											
MUD WEIGHT lb/gal	/											
VISCOSITY sec/qt	/											
W.L.F.C c.c./32nd	/											
p.H.	/											
MUD LEVEL IN TANKS Ft.-ins.	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION

CORE No.	No.	DST No.	FROM				TO				MUD ENGINEER'S REPORT		
			PREFLOW	mins	I.H.P.	p.s.i.	F.P.P.	p.s.i.	Time	A.M.	P.M.	Aik	
			IS.I.	mins	F.H.P.	p.s.i.	F.F.P.	p.s.i.	Mud Wt			Int. Gel	10 Min. Gel
			V.O.	mins	I.S.I.P.	p.s.i.	G.T.S.	p.s.i.	Visc			W.L.F.C.	
			F.S.I.	mins	F.S.I.P.	p.s.i.	F.T.S.	p.s.i.	A.V.			p.H.	
			RECOVERY						P.V.			Sand	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	A. CHAMBERS	A. SKINNIN	G. FRASER			
DERRICKMAN	W. DANIRKO	M. CHENSKI	G. FRASER			
HELPER	G. HUBER	P. VOGEL	J. RANOK			
HELPER	A. BUNZ	V. VOGEL	G. JACOBSON			
HELPER	J. FLIETO	W. WAGSTAFF	J. WANDLER			
FIREMAN						
TOOL PUSHER						

10 sac gal

Flow down depth at 3
Cemented
Cement 3"
Shut down p
hot circular
pump
pump out.
returns
@ 11:30 pm

S O D C W M S U A R F I R R C K I T # 1

OTHER HOURLY OPERATING DETAIL WORK DONE

1971		MATERIALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR	Amount					
7 26 FT	12.00	1 20			"Cork" up mud Tank GATES & Field Water - Run in 2 Blocks To Run in Run in + measure (OPEN 17.00) Pick up anchors to get to plug. Run Hot Pump - Put on Kelly Hose. Circ w/ warm water. Top at cement 11:04 A.M.	
3 00 FT	1.30	2 25				
3 00 FT	2.25	3 20				
3 00 FT	3.20	4 15				
3 00 FT	3.42	5 00				
TOUR 2	5.00	8 00	4 00		Circ surface casing with warm water - approx + 50°-+60° F	
TOUR 3		8 00	10 00		Circ	
		10 00	12 00		Cementing w/ 1" pipe	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Ran down outside of surface casing with 2" 11" pipe to a depth of 350 h.B. - used 140' of 2" pipe - rest 1" pipe. Cemented with 108 sac permatrust cement & 90 sac normal cement 3% CaCl₂. mixing time 60 min from 10³⁰ pm to 11³⁰ pm. Shut down pump to get out cellar for 15 min - started pump - could not circulate @ 2000 psi. - Pulled cementing string - had to pump ~~out~~ each joint out with BJ skid unit pump after joint broke out - cemented up 80' at 1" pipe - could not pump out. Had returns throughout entire job with cement returns quite noticeable before shutting down pump. C.I.P @ 11³⁰ pm

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *W. Idant* WELL NAME *N 66° 42' LSD W 137° SEC 20' TWP* CONTRACTOR *G.P.* RIG NO *15*

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT *Jan 21 1971*

S O B C
 CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS .. D.P.	NO. <i>6</i>	<i>56995</i> FT	NO. <i>6</i>	<i>56995</i> FT	NO	FT
SINGLE .. D.P.	NO. <i>1</i>	<i>3098</i> FT	NO. <i>1</i>	<i>3098</i> FT	NO	FT
X OVER SUB .. O.D.		<i>300</i> FT		<i>300</i> FT		FT
OTHER .. <i>7" O.D.</i>	<i>16</i>	<i>49105</i> FT				FT
DRILL COLLAR .. <i>7" O.D.</i>			<i>16.7"</i>	<i>49105</i> FT		FT
DRILL COLLARS .. O.D.	NO.	FT	NO.	FT	NO	FT
REAMER .. O.D.	KIND	FT	KIND	FT	KIND	FT
STABILIZER .. O.D.	KIND	FT	KIND	FT	KIND	FT
JARS	KIND	FT	KIND	FT	KIND	FT
BUMPER SUB	KIND	FT	KIND	FT	KIND	FT
BIT OR CORE BARREL		FT		FT		FT
TOTAL D.P. & TOOLS		FT		FT		FT
KELLY DOWN (BELOW R.B.)		<i>4120</i> FT		<i>4180</i> FT		FT
DEPTH OF TOOLS		<i>12050</i> FT		<i>12050</i> FT		FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>1205</i> FEET		
DEPTH START OF TOUR	<i>1205</i> FEET		
FOOTAGE DRILLED			

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP .. s.p.m. p.s.i.	/	/	/	/	/	/	/	/	/	/	/	/
ROTARY SPEED .. R.P.M.												
WEIGHT ON BIT .. M lbs.												
MUD WEIGHT .. lb/gal												
VISCOSITY .. sec/qt												
W.L.F.C. .. c.c./32nd	/	/	/	/	/	/	/	/	/	/	/	/
p.H												
MUD LEVEL IN TANKS .. Ft. Ins												

Ran 38 ft range 1 & 2 float collar welded and at 3:20 pm Jan 20 ran as per

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	TOTAL BIT FOOTAGE	FT. HR.	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE			PREFLOW mins	IHP	ps.i.	IFP	ps.i.	Time	AM PM
FROM			ISI mins	FHP	ps.i.	FFP	ps.i.	Mud Wt.	Air Int Gel 10 Min Gel
TO			VO mins	ISIP	ps.i.	GTS	ps.i.	Visc	W.L.F.C.
Recovery			F.S.I. mins	FSIP	ps.i.	F.T.S.	ps.i.	A.V.	pH
HOURS			RECOVERY					P.V.	Solid %

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Y.P.	DEVIATION RECORD		
					Kind	Depth	Reading
DRILLER	<i>A. Chambers</i>	<i>H. Skinner</i>	<i>C. Fraser</i>				
DERRICKMAN	<i>W. Darnell</i>	<i>M. Chelwick</i>	<i>C. Fraser</i>		<i>LINE</i>	<i>1205</i>	<i>1 1/4</i>
HELPER	<i>C. Habir</i>	<i>V. Vogel</i>	<i>J. Rando</i>				
HELPER	<i>A. Benz</i>	<i>V. Vogel</i>	<i>G. Jacobson</i>				
HELPER	<i>J. Flato</i>	<i>W. Wagsstaff</i>	<i>J. Wandler</i>				
FIREMAN							
TOOL PUSHER	<i>James O. ...</i>						

Casing was 5' or more pumped into mixing water at water at back casing

S O B C W M Shafter CR 4 T #1

1971		CHEMICALS ADDED		OTHER HOURLY OPERATING DETAIL	
		From	To	WORK DONE	
TOUR		12:00	1:30	FINISH RUNNING CSG.	
FT		1:30	3:00	RIG UP TO CURE CSG.	
FT		3:00	4:00	CURE + W/CSG.	
FT		4:00	4:30	RIG TO CEMENT.	
FT		4:30	7:12	CEMENTING SURFACE CSG.	
FT		7:12	8:00	HOT PHUG CO + DISPLACING.	
TOUR 2		8:00	8:15	FINISH DISPLACE	
FT		8:15		CLEAN OUT CELLAR, CUT CONDUCTOR	
FT				BRK + PICK UP SAME, PUT ON CSG CHECK	
FT				BLOCK UP SAME FROM CELLAR FLOOR SET	
FT				CONDUCTOR ERL DOWN. TAKE OFF FLOW LINE	
FT				WELDER MAKE NIPPLE TO WELD TO CSG.	
FT				CUT CSG OFF + CUT HOLES IN CSG TOWARD IN	
FT				NIPPLE CLEAN AND TEST & DRAIN IN	
TOUR 3		4:00	4:00	PUMP	
OUR				FINISH WELDING ON NIPPLES	
FEET				CUT 1' CSG + LAY DOWN	
FEET				RE-UP FLOW LINE	
FEET				CLEAN ICE OUT OF HUB TANKS	
HOURS				PUT BE HOLE EQUIPMENT AWAY	
P.M. 12:00 P.M.			12:00		

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Ran 38 ft (1184.70) 13 3/8 x 5.45" / 11.755 Sumitomo seamless ground range 1 & 2 surface casing equipped with Davis float shoe, Davis float collar and 5 centralizers. The first 3 joints were electrically welded and thread locked to form a continuous unit. Started casing at 3:30 pm Jan 20 - casing on bottom 2:21 am Jan 21. String was made up and ran as follows:

1-13 3/8" Davis Float Shoe	1.80
147-13 3/8 x 5.45" / 11.755 seamless Csg	31.03
1-13 3/8" Davis Float Collar	1.46
37 ft x 13 3/8 x 5.45" / 11.755 seamless Csg	1150.41
Total string	1184.70
H.B. to top of collar	15.96
Csg landed at	1200.66
Over hole	4.54
Total depth	1205.20

Casing was cemented using BT skid mounted unit. Started mixing at 5:30 am at average slurry weight of 15.5 gal. Mixed 1200 sac 3% CaCl₂ and pumped into casing in 2 hours 15 minutes. Cement temperature -30°F. Mixing water temperature +60°F to +80°F. Displaced plug with 183.6 bbls of water at approximately 50°F in 40 minutes. Final pressure 1500 psi. Plug back casing - floats holding cement in place at 8:50 am.

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRUG** RIG NO **15**
 WELL NAME **66° 42' W 137° 20' SEC** TWP **137° 20' SEC** Rge **W**

S08C SHA
 M.D. CHEMICALS AD

FIELD **Wild Cat** WELL NAME **66° 42' W 137° 20' SEC** TWP **137° 20' SEC** Rge **W**
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **JAN 20 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR				
STANDS	D.P.	NO. 6	256995	FT	NO. 6	56995	FT	NO.						
SINGLE	D.P.	NO. 1	3098	FT	NO.	3098	FT	NO.						
X OVER SUB	O.D.		300	FT		300	FT							
OTHER	O.D.		466	FT		466	FT							
DRILL COLLARS	10" O.D.	2	6049	FT		6049	FT							
DRILL COLLARS	7" O.D.	NO. 16	49105	FT	NO.	49105	FT	NO.						
REAMER	O.D.	KIND	385	FT	KIND		FT	KIND						
STABILIZER	O.D.	KIND		FT	KIND		FT	KIND						
JARS		KIND		FT	KIND		FT	KIND						
BUMPER SUB		KIND		FT	KIND		FT	KIND						
BIT OR CORE BARREL				FT		180	FT							
TOTAL D.P. & TOOLS				FT			FT							
KELLY DOWN (BELOW R.B.)			4180	FT		4180	FT							
DEPTH OF TOOLS			120578	FT		120393	FT							

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	FEET	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	FEET	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP											58	6:00
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT											10.2	
VISCOSITY											115	
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

Double T
 R
 S.L
 D

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	TOTAL FEET	FT HR	BIT CONDITION
392	1 1/2	X4929	HW OSCIG	3/14						

CORE No.	No.	DST No.	FROM		TO		MUD ENGINEER'S REPORT					
			PREFLOW	mins	IHP	psi	I.F.P.	psi	Time	AM P.M.	Air	
			IS I	mins	FHP	psi	F.F.P.	psi	Mud Wt		int. Gel	10 Min. Gel
			VO	mins	ISIP	psi	G.T.S.	psi	Visc		W.L.F.C.	
			F.S.I.	mins	F.S.I.P.	psi	F.T.S.	psi	A.V.		p.H.	
			RECOVERY						P.V.		Solid	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	A. CHAMBERS	H. SKINNE	G. FRASER			
DERRICKMAN	J. DANALSO	M. CHEVICK	D. HAYDEN	line	1200	1'14
HELPER	G. HAIRER	V. VOZEL	G. FRASER			
HELPER	A. BIRN	V. VOZEL				
HELPER	J. FLATO	W. WAGSTAFF	J. FRASER			
FIREMAN						
TOOL PUSHER						

SOBC. SHARFERR. CRJY # 1

1971		MATERIALS CHEMICALS ADDED		OTHER HOURLY OPERATING DETAIL	
		From	To	WORK DONE	
TOUR 1		12 ⁰⁰	12 ⁴⁵	Push blocks down to floor	
		12 ⁴⁵	2 ¹²	warm up blocks + Pump Diesel into string	
		2 ¹²	4 ¹⁵	Run in hole + lay down. Pick up. Pump	
		4 ¹⁵	4 ¹⁵	THROW out Core Head + Take off stand	
		4 ⁴⁵	5 ¹⁵	THROW Kelly out of 1st Hole + THROW out.	
		5 ¹⁵	7 ⁰⁰	Swirl + mud liners in Pump House	
		7 ⁰⁰	7 ¹⁵	CHAIN TO BOTTOM	
		7 ¹⁵	7 ⁴⁵	Circ w/ Pipe	
		7 ⁴⁵	8 ⁰⁰	Surveys	
TOUR 2					
		8 ⁰⁰	10 ¹⁵	- Blow Kelly make Dummy Trip	
		10 ¹⁵	10 ⁴⁵	Circulate - work pipe	
		10 ⁴⁵	2 ⁰⁰	- Trip out - lay down 10" D.C.	
		2 ⁰⁰	3 ⁰⁰	Pig to casing	
		3 ⁰⁰	4 ⁰⁰	Run casing. Weis on casing	
		4⁰⁰	12⁰⁰	Run casing	
TOUR 3		4 ⁰⁰	12 ⁰⁰	Run casing	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Double Tally:

Running Tally 1205.78

S.L.M 1205.20

D.H. 0.58 - No Corrⁿ made.

L. J. [Signature]
SIGNATURE COMPANY ENGINEER

S.D.B.C. Wm. SHAEFFER CKYT. 1[#]

OTHER HOURLY OPERATING DETAIL
WORK DONE

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	12⁰⁰	Blow KILLS TAKE OFF KILLS HOSE PULL ROTATING HEAD HOIST TO LOG. TIE UP LOGGERS & LOG.
		12 ³⁰	12 ³⁰	
		1 ⁴⁵	1 ⁴⁵	
		8 ⁰⁰	8 ⁰⁰	
		8 ⁰⁰	12 ⁰⁰	LOGGING
		12 ⁰⁰	12 ³⁰	Tear out LOGGERS
TOUR 2		12 ³⁰	12 ³⁰	Tear out ROTATING HEAD & CUT OFF CONDUCTOR BBL. TO CHANGE SIZE
			4 ⁰⁰	
		4 ⁰⁰	4 ⁰⁵	LAY DOWN CONDUCTOR BBL - Rotating HEAD
		4 ⁰⁵	6 ³⁰	WEIRD ON CONDUCTOR BBL.
		6 ³⁰	7 ⁴⁵	HOOK UP FLOW LINE & CHAIN DOWN CONDUCTOR BBL.
		7 ⁴⁵		BLOCKS WOULDNT COME DOWN RIG UP SANDLINE & SNATCH BLOCKS WOULDNT HOLD RIG UP WEIGH TANK TO BULL BLOCK DOWN
TOUR 3		4 ⁰⁰	4 ⁰⁵	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Ran Schlumberger logs from 50' to 1198'

IES

Caliper

MHG

FDC GR

SMP

SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **WILDCAT**

WELL NAME **66 412**

CONTRACTOR **E.P. W137** SEC **70'** TWP

RIG NO **15**

SO BC Wm S

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS END: **3 12 MIDNIGHT JAN. 18 1971**

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	5 4 1/2 D.P.	NO	47438 FT	NO 6	60275 FT	NO 6	60275 FT
SINGLE	2 4 1/2 D.P.	NO	6242 FT	NO 1	3098 FT	NO 1	3098 FT
X OVER SUB	O.D.		300 FT		300 FT		300 FT
OTHER	O.D.		466 FT		466 FT		466 FT
DRILL COLLARS	2 10" O.D.		6049 FT		6049 FT		6049 FT
DRILL COLLARS	16 7" O.D.	NO	49105 FT	NO	49105 FT	NO	49105 FT
REAMER	1 7 1/2 O.D.	KIND	385 FT	KIND	385 FT	KIND	385 FT
STABILIZER	O.D.	KIND		KIND		KIND	
JARS		KIND		KIND		KIND	
BUMPER SUB		KIND		KIND		KIND	
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS			109935 FT		116520 FT		116520 FT
KELLY DOWN (BELOW R.B.)			2880 FT		3280 FT		3980 FT
DEPTH OF TOOLS			112865 FT		119800 FT		120500 FT
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR					119800 FEET		120500 FEET
DEPTH START OF TOUR					112800 FEET		119800 FEET
FOOTAGE DRILLED					70 FEET		7 FEET

TOUR	TOUR
GEN	GEN
GEN	GEN

	HOURS				HOURS				HOURS			
	2:00 AM	5:00 AM	8:00 AM	11:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	7:00 PM	10:00 PM	12:00 PM	
PUMP	52 400	52 400	52 400	52 400	60 800	60 800	60 800	51 800			60 800	
ROTARY SPEED	100	100	100	100	100	100	100	100			100	
WEIGHT ON BIT	10-12m	10-12m	10-12m	10-12m	10-12m	10-12m	10-12m	10			10	
MUD WEIGHT	99	99	99	99	10	10.1	10.2	10.1			10.2	
VISCOSITY	46	46	47	67	70	80	85	110			110	
W.L.F.C.												
pH												
MUD LEVEL IN TANKS												

GRAVEYARDS -
DARK NIGHTS -

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZE	TOTAL	FROM	TO	FEET HR	BT CON. DOWN
HOPE DRENCHER									
1 7/8 O.D. 1 1/4 I.D. 2 1/4 SERIES - B17 X 5567 LENGTH 385									

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT						
TYPE		PREFLOW	mins	FHP	ps	F.P.P.	ps	Time	AM	PLD	AK
FROM		ISI	mins	FHP	ps	F.P.P.	ps	Mud Wt	10	Mud Wt	
TO		VO	mins	ISI P	ps	GTS	ps	Vac	W.C.P.		
Recovery		FSI	mins	FSI P	ps	F.T.S.	ps	A.V.	PH		
HOURS		RECOVERY						P.V.	Sand		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	K. CHRISTENSEN	A. CHAMBERS	A. SKINNER	Kind	Depth	Reading
BERRICKMAN	C. LONG	W. DENENKO	M. CHENSKI	line	1135	1'14
HELPER	B. JABS	G. HAZEL	P. VOGEL		1200	1'18
HELPER	J. GRAHAM	A. BONZ	V. VOGEL			
HELPER	J. MACYNAK	S. KATA	W. WAGSTAFF			
FIREMAN						
TOOL PUSHER	James Yraser					

SOBC Wm SHAEFFER CKYT 1#

1971
 TOUR
 275 FT
 298 FT
 300 FT
 166 FT
 249 FT
 105 FT
 385 FT
 FT
 FT
 FT
 520 FT
 780 FT
 500 FT
 TOUR
 51 FEET
 8 FEET
 7 FEET
 HOURS
 P.M. 12:00 P.M.
 60
 800
 100
 102
 110
 MENTION
 5
 REPORT
 Gel
 Min. Ge.
 P.C.
 d
 P.P.M.
 P.P.M.
 WORD
 Reading
 1'14
 1'18

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12:00	12:45	RIG SERVICE WORK ON ROTATING HEAD NUT BREAK CIRC. ROTATING HEAD LEAKING PULL OFF ROTATING HEAD TURN RUBBERS INSIDE OUT TIGHTEN DOWN SAME REAMING W/ 10-12 m.
GEN	2400#	12:15	1:30	
		1:30	4:15	
		4:15	8:00	
TOUR 2		8:00	8:45	REAMING w/ Pilot Reamer, CIRC-CONNECT + SURVEY RIG SURV. REAMING w/ Pilot Reamer.
GEN	1600#	8:45	9:15	
		9:15	4:00	
TOUR 3		4:00	4:50	REAMING w/ Pilot Reamer DRILL CIRC w/ PIPE TOP DOUBLE MENS. PUT ON ROTATING HEAD CIRC SURVEY
		4:50	6:15	
		6:15	6:45	
		6:45	10:00	
		10:00	11:00	
		11:00	11:45	
		11:45	12:00	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

GRAVEL ARDS - REAMED FROM 1028 - 1128 40',
 DAYLIGHTS - REAMED FROM 1128 TO 1178 - 70'

Wm Shaeffer
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **WILDCAT** WELL NAME **66° 12' 66° 12' 12'** CONTRACTOR **G.P.** RIG NO **15**
 DRILLING DEEPENING COMPLETING REWORKING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **JAN 17 1971**

SOBC. Wm
MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS 4 4 1/2 O.P.	NO	37988 FT	NO 5	47792 FT	NO 5	47792 FT
SINGLE 2 4 1/2 O.P.	NO.	6223 FT	NO 1	3153 FT	NO	3153 FT
X-OVER SUB .. O.D.		300 FT		300 FT		300 FT
OTHER .. O.D.		466 FT		466 FT		466 FT
DRILL COLLARS 2 10" O.D.		6049 FT		6049 FT		6049 FT
DRILL COLLARS 16 7" O.D.	NO	49060 FT	NO	49060 FT	NO	49060 FT
REAMER .. O.D.	KIND	FT	KIND	FT	KIND	FT
STABILIZER 7 1/8 O.D.	KIND	FT	KIND	FT	KIND	885 FT
JARS	KIND	FT	KIND	FT	KIND	FT
BUMPER SUB	KIND	FT	KIND	FT	KIND	FT
BIT OR CORE BARREL		278 FT		FT		FT
TOTAL D.P. & TOOLS		3917 / 100066 FT		106820 FT		107225 FT
KELLY DOWN (BELOW R.B.)		3017 FT		1980 FT		1980 FT
DEPTH OF TOOLS		103983 FT		108800 FT		109185 FT

TOUR
GEL
Caustic

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	
DEPTH END OF TOUR												
DEPTH START OF TOUR												
FOOTAGE DRILLED												

TOUR

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN IN.	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION	
RR-2	17 1/2	26929	HW OSCIG J	2-16 / 1-22	23 3/4	924	1088	164	7	2-1-1 - balling up
Rm	17 1/2	BIT 2562	See H-1. Operator							
RR-2	12 1/4	26981	H.W. OSC. 3J							

GRAVELARDS
BRICKETS

Ran in Seam
Length 3.8

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT						
					Time	AM	PM	AK			
TYPE		PREFLOW	mins	IHP	psi	IFP	psi	Time	AM	PM	AK
FROM		ISI	mins	FHP	psi	FFP	psi	Mud Wt	10 Min. (min)		
TO		VO	mins	ISIP	psi	GTS	psi	Visc	W.L.F.C.		
Recovery		FSI	mins	FSIP	psi	FTS	psi	AV	pH		
HOURS		RECOVERY						PV	Solid		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	K CHRISTENSEN	A CHAMBERS				
DERRICKMAN	E LONG	W DEVINCO				
HELPER	B JABS	G HARRIS				
HELPER	J GRAHAM	A BENTZ				
HELPER	J MACHNAK	J FLATO				
FIREMAN						
TOOL PUSHER						

S.O.B.C. Wm. SHAEFFER CKY.T. 1st

1971
 ON TOUR
 792 FT
 153 FT
 300 FT
 466 FT
 049 FT
 060 FT
 385 FT
 225 FT
 980 FT
 185 FT
 TOUR
 FEET
 2 FEET
 FEET
 HOURS
 00 P.M. 12:00 P.M.

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	3 ⁰⁰	READING FROM 934'
CEL	700 #	3 ⁰⁰	3 ³⁰	RIG SERVICE SURVEY @ 980' 1 1/8"
Caustic	50 #	3 ³⁰		READING
TOUR 2		8 ⁰⁰	8 ³⁰	CIRC + CONNECTION + SURVEY
		8 ³⁰	11 ⁴⁵	FROM 2 1/4" TO 17 1/2" HOLE.
		11 ⁴⁵	12 ⁴⁵	CIRC - CONNECTION + SURVEY
		12 ⁴⁵	1 ¹⁵	READING
		1 ¹⁵	2 ¹⁵	WARMUP FUEL LINES + START MOTORS
		2 ¹⁵	3 ³⁰	READING
		3 ³⁰	8 ⁰⁰	CIRC + w/ PAP.
TOUR 3		4 ⁰⁰	4 ⁰⁰	CIRC
		4 ⁰⁰	6 ⁰⁰	HOIST HOLE TIGHT
		6 ⁰⁰	7 ⁰⁰	BREAK OFF 17 1/2 BIT. MAKE UP 17 1/2"
		7 ⁰⁰		HOLE OPENER + 12 1/4 BIT.
			8 ⁰⁰	WELDER WELD CLEATS FROM 12 1/4 BIT
			10 ⁰⁰	TO HOLE OPENER.
			10 ⁰⁰	RUN IN HOLE
			12 ⁰⁰	WORKING ON ROTATING HEAD NUT

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

GRAVESARDS - REAMED 106' 17 1/2" HOLE. Reamed depth 1040
 DRIFTS - REAMED 48' 17 1/2" HOLE 1040 TO 1088

Ran in Security Hole opener 17 1/2" with 12 1/4" bit group welded
 Length 3.85" - 0.12. 7 1/8"

CONDITION
 called up
 REPORT
 Wt. Gel
 0 Min. Gel
 V L F C
 H
 Solid %
 A. ppm
 L. ppm
 RECORD
 th Reading
 0 1 1/2
 0 1

[Handwritten Signature]

SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **WILDCAT**

WELL NAME **66° 42' LSD W 137° SEC 20' TWP**

CONTRACTOR **G.P.**

RIG NO **15**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

Jan 16

1971

50.33 Wm

MUD CHEMICALS AD

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS 6-42 D.P.	NO. 56995 FT	NO. 6 57300 FT	NO. 3+2 34827 FT
SINGLE D.P.	NO.	NO. 3009 FT	NO.
X OVER SUB O.D.	300 FT	300 FT	300 FT
OTHER O.D.	466 FT	466 FT	466 FT
DRILL COLLARS 2-10" O.D.	6049 FT	6049 FT	6049 FT
DRILL COLLARS 16-7" O.D.	NO. 49060 FT	NO. 49060 FT	NO. 49060 FT
REAMER O.D.	KIND	KIND	KIND
STABILIZER O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
BUMPER SUB	KIND	KIND	KIND
BIT OR CORE BARREL	218 FT		218 FT
TOTAL D.P. & TOOLS	113088 FT	116100 FT	90920 FT
KELLY DOWN (BELOW R.B.)	3713 FT	4100 FT	3119 FT
DEPTH OF TOOLS	116801 FT	120200 FT	94010 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	1168 FEET	1202 FEET	940 FEET
DEPTH START OF TOUR	1070 FEET	1168 FEET	928 FEET
FOOTAGE DRILLED	98 FEET	34 FEET	116 FEET

**700' GEL
50' CLUSTIC**

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:30 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	47 500	47 500	47 500	47 500	47 500	47 500					40 45	40 45
ROTARY SPEED	100	100	100	100	100	100					100	100
WEIGHT ON BIT	12	5	5	5	2-3	2-3					8/10	10
MUD WEIGHT	94	94	94	94	94	94					9.4	9.3
VISCOSITY	42	42	42	41	43	46					47	46
W.L.F.C.												
pH												
MUD LEVEL IN TANKS												

**MEASURED
IN
10212
2.88
40**

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT LENGTH IN
3	12 1/4	26981	H.W. OSC 3-5	3-18	18 1/4	924	1202	27815	2-1-1
RR-2	17 1/2	KH829	H.W. OSC 16 5	Reaming 2 1/2 - 1/2	1 1/2	924	940	16	Reaming 29

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
					Time	W.M.	API	
					Mod Wt	10	API	
					Visc	W.F.		
					AV	API		
					P.V.	Solid		
					Y.P.	CA, ppm		
						IG, ppm		

SIGNATURES	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR		DEVIATION RECORD		
	Kind	Depth	Kind	Depth	Kind	Depth	Kind	Depth	Reading
DRILLER	K. CHRISTENSEN		R. CHAMBERS		A. SKINNER				
DERRICKMAN	C. LONG		W. DANAKO		W. CHENICK	LINE	1108		1 1/4
HELPER	B. TADS		G. HAIZIR		P. VOGEL		1165		1 1/4
HELPER	T. GRAHAM		A. BIRN		V. VOGEL		1200		1 1/4
HELPER	J. MASHNAK		J. FLATO		W. WIGSTAFF				
FIREMAN									
TOOL PUSHER									

S.O.B.C. Wm. SHAEFFER CKYT 1[#]

1971		MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount					
TOUR 1		12 ⁰⁰	2 ³⁰			DRAG 12 1/4 HOLE
		2 ³⁰	3 ⁰⁰			RIG SERVICE & SURVEY @ 1108 1 1/4"
		3 ⁰⁰	8 ⁰⁰			DRAG W/ 5m.
TOUR 2		8 ⁰⁰	8 ³⁰			CIRC DOWN + SURVEY
		8 ³⁰	12 ⁰⁰			DRILL w/ 2-3 m ON OBIT
		12 ⁰⁰	12 ²⁰			CIRC w/ 7.2m
		12 ²⁰	1 ⁰⁰			SURVEY w/ WIRE LINE
		1 ⁰⁰	1 ³⁰			BLOW KELLY - TAKE OFF ROTATOR
		1 ³⁰	2 ⁴⁵			HOIST & W/ PIPE TO LOSING UP BLOCKS
		2 ⁴⁵	3 ⁰⁰			RIG SURV.
		3 ⁰⁰	4 ⁰⁰			RUN IN & LAY DOWN SINGLES
TOUR 3		4 ⁰⁰	4 ¹⁰			LAY DOWN SINGLES
		4 ¹⁰	5 ⁰⁰			SEA RIG
		5 ⁰⁰	5 ⁰⁰			PUT ON ROTATING HEAD
		5 ¹⁰	6 ¹⁵			TRAW KELLY OUT OF RIG HOLE
		6 ¹⁵	9 ⁰⁰			TAKE OFF KELLY HOSE - TRAW SAME
		9 ⁰⁰	9 ³⁰			REAR FROM 12 1/4 TO 17 1/2
		9 ³⁰	11 ⁰⁰			FUEL LINE GETS CO AT DRYPANX HEAT FUEL LINE
		11 ⁰⁰	12 ⁰⁰			& START MILERS
						REMAINING

700# GEL
50# CAUSTIC

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

MEASURED OUT -70° Very Very Cold

Running Tanking	1203.65
Towing	1301.74
Disse	1.11

NO CORRECTION MADE.

L. F. [Signature]

SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD WILDCAT WELL NAME 66 42 W/39' SEC 20 TWP CONTRACTOR C.P. RIG NO 15
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

DATE JAN 15 1971 RIG W
 SUBC. W. MUD CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS .. D.P.	NO. <u>3</u>	<u>28501</u> FT	NO	<u>28501</u> FT	NO. <u>5</u>	<u>47448</u> FT
SINGLE .. D.P.	NO.	<u>3159</u> FT	NO	<u>6326</u> FT	NO	
X OVER SUB .. O.D.		<u>300</u> FT		<u>300</u> FT		<u>300</u> FT
OTHER .. O.D.		<u>466</u> FT		<u>466</u> FT		<u>466</u> FT
DRILL COLLARS <u>2-10"</u> O.D.		<u>6049</u> FT	<u>2-10"</u>	<u>6049</u> FT		<u>6049</u> FT
DRILL COLLARS <u>16-7"</u> O.D.	NO.	<u>49060</u> FT	<u>16-07"</u>	<u>49060</u> FT	NO.	<u>49060</u> FT
REAMER .. O.D.	KIND		KIND		KIND	
STABILIZER .. O.D.	KIND		KIND		KIND	
JARS	KIND		KIND		KIND	
BUMPER SUB.	KIND		KIND		KIND	
BIT OR CORE BARREL		<u>218</u> FT				<u>218</u> FT
TOTAL D.P. & TOOLS		<u>87535</u> FT		<u>90820</u> FT		<u>103541</u> FT
KELLY DOWN (BELOW R.B.)		<u>2298</u> FT		<u>3180</u> FT		<u>3480</u> FT
DEPTH OF TOOLS		<u>90001</u> FT		<u>94000</u> FT		<u>107021</u> FT
TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		<u>900</u> FEET		<u>940</u> FEET		<u>1070</u> FEET
DEPTH START OF TOUR	806	<u>806</u> FEET		<u>900</u> FEET		<u>940</u> FEET
FOOTAGE DRILLED		<u>94</u> FEET		<u>40</u> FEET		<u>130</u> FEET

DAY WORK	HOURS						HOURS					
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP	44	45	44	45	44	45	44	45	44	45	44	45
ROTARY SPEED	100	100	100	100	99/100	99/100	99/100	100	100	100	100	100
WEIGHT ON BIT	12	12	12	12	12	12	10/12	10	10	10	10	10
MUD WEIGHT	8.8	8.8	8.8	8.8	8.9	8.9	9.1	9.1	9.1	9.1	9.1	9.1
VISCOSITY	35	35	37	37	38	38	44	40	44	44	44	44
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET PER HOUR	BIT CONDITION
<u>2</u>	<u>17 1/2"</u>	<u>XH829</u>	<u>H.W. OSCIG J</u>	<u>2-16</u> <u>1-22</u>	<u>19 1/4</u>	<u>571</u>	<u>900</u>	<u>329</u>	<u>17.6</u>
<u>3</u>	<u>12 1/4"</u>		<u>H.W. OSC 3-J</u>	<u>3-18</u>	<u>1</u>	<u>924</u>	<u>940</u>	<u>16</u>	<u>16</u>
<u>3</u>	<u>12 1/4"</u>	<u>26981</u>	<u>H.W. OSC 3-J</u>	<u>3-18</u>	<u>6 1/4</u>	<u>924</u>	<u>1070</u>	<u>146</u>	<u>26</u>

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	IHP	psi	I.F.P.	psi	Time	A.M. P.M.
FROM		I.S.I.	mins	F.H.P.	psi	F.F.P.	psi	Mud Wt.	Int. Gel 10 Min. Gel
TO		V.O.	mins	I.S.I.P.	psi	G.T.S.	psi	Visc.	W.L.F.C.
Recovery		F.S.I.	mins	F.S.I.P.	psi	F.T.S.	psi	A.V.	p.H.
HOURS		RECOVERY						P.V.	Solid % C.A. ppm C.T. ppm

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	<u>K. CHRISTENSEN</u>	<u>A. CHAMBERS</u>	<u>H. SKINNER</u>			
DERRICKMAN	<u>G. LONG</u>	<u>W. DAMINKO</u>	<u>M. CHENSKI</u>	<u>LINE</u>	<u>856</u>	<u>7/8"</u>
HELPER	<u>B. TABS</u>	<u>G. HABIBAR</u>	<u>P. VUGOT</u>		<u>915</u>	<u>1 1/4</u>
HELPER	<u>J. CRANAM</u>	<u>A. BIRN</u>	<u>V. VUGOT</u>	<u>LINE</u>	<u>980</u>	<u>1</u>
HELPER	<u>J. MACHNAK</u>	<u>S. FLATO</u>	<u>W. WAGSTAFF</u>	<u>LINE</u>	<u>1040</u>	<u>1</u>
FIREMAN						
TOOL PUSHER	<u>James O. Kramer</u>					

TOUR 1
GEL

TOUR 2

TOUR 3
GEL 900

-73 at air str.
 Trip a
 To device
 ahead w

SUBC. Wm. SHAEFFER C.K. 5 T. 1 #

1971

MUD and CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL	
Kind	Amount	From	To	WORK DONE
TOUR 1		12 ⁰⁰	3 ³⁰	DRAG
GEL	700#	3 ³⁰	7 ⁰⁰	HIG SERVICE; SURVEY @ 856' 7/8"
		4 ⁰⁰	6 ³⁰	DRAG.
		6 ³⁰	7 ¹⁵	WORK TIGHT COMM. UN BALL BIT.
		7 ¹⁵	8 ⁰⁰	DRAG.
TOUR 2		8 ⁴⁵	9 ⁴⁵	DRILLING
		9 ⁰⁰	9 ³⁰	CIRC SURVY
		9 ³⁰	9 ⁴⁵	DRILLING
		9 ⁴⁵	10 ¹²	CIRC w/PIPE
		10 ¹⁵	10 ³⁰	SURVY
		10 ³⁰	11 ⁰⁰	SHOW RIGGERS + TAKE OFF ROTATING HEAD
		11 ⁰⁰	1 ⁰⁰	HOIST BIT #2 @ 924 (HOLE TIGHT)
		1 ⁰⁰	2 ³⁰	CHANGE BITS + PULL IN
TOUR 3		2 ³⁰	3 ⁰⁰	PUT ON ROTATING HEAD
GEL 900		3 ⁰⁰	4 ⁰⁰	DRILLING
		4 ⁰⁰	4 ¹⁵	DRILL
		4 ¹⁵	4 ³⁰	WORK TIGHT COMM
		4 ³⁰	5 ¹⁵	DRILL
		5 ¹⁵	5 ⁴⁵	WORK TIGHT SURVY + WORK 22 COMPS.
		5 ⁴⁵	6 ¹⁵	DRILL
		6 ¹⁵	6 ⁴⁵	WORK TIGHT SURVY
		6 ⁴⁵	7 ²⁰	DRILL

HOURS

0 P.M.	12:00 P.M.
1:30	4:30
0	1:00
1	9:1
1	4:4

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Very Very Cold

-73 at air strip
 Trip at 924 to look at bit as hole starting to deviate. BIT in good shape - decided to pilot ahead with 12" bit to keep deviation to minimum

CONDITION

REPORT

Min Gel
 L.F.C.
 Reading

Reading
7/8"
1 1/4"
1"
1"

W. T. Shanley

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.**

RIG NO **15**

S013C W

FIELD **WILDCAT**

WELL NAME **S.O.B.C. Nm. SMOETTER SEC**

TWP

Rge

W

DRILLING DEEPENING COMPLETING **66' 42' W137 20**
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

JAN 14 1970

MUD CHEMICALS A

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS 1 1/2 D.P.	NO.	9460 FT	NO. 1	9460 FT	NO. 2	19685 FT
SINGLE " D.P.	NO.		NO. 1	3163 FT	NO. 1	8156 FT
X OVER SUB " O.D.		3300 FT		300 FT		3000 FT
OTHER " O.D.		466 FT		466 FT		4663 FT
DRILL COLLARS 2 "10" O.D.		6049 FT	2 "10"	6049 FT		6049 FT
DRILL COLLARS 16 "8 1/2" O.D.	NO/16	49060 FT	NO/16	49060 FT	NO/16	49060 FT
REAMER " O.D.	KIND		KIND		KIND	
STABILIZER " O.D.	KIND		KIND		KIND	
JARS	KIND		KIND		KIND	
BUMPER SUB.	KIND		KIND		KIND	
BIT OR CORE BARREL		218 FT				
TOTAL D.P. & TOOLS		65733 FT				
KELLY DOWN (BELOW R.B.)		4180 FT		3680 FT		2384 FT
DEPTH OF TOOLS		69927 FT		72100 FT		78604 FT

TOUR 1
GEN 69
SANDUST
CAUSTIC

TOUR 2
GEN 100
CAUSTIC
SANDUST

TOUR 3
700th Gen
6 Sandust
1/2" Streamline

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	699	721	806
DEPTH START OF TOUR	—	699	7721
FOOTAGE DRILLED	—	21	85

	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP s.p.m. / p.s.i.			500				38 / 40	38 / 40	38 / 40	38 / 40	38 / 40	38 / 40
ROTARY SPEED R.P.M.							60	80	60	60	60	100
WEIGHT ON BIT M.lbs.							12	12	12 1/2	12	12	12
MUD WEIGHT lb/gal							8.8	8.8	8.8	8.8	8.8	8.8
VISCOSITY sec/qt							34	39	37	35	40	40
W.L.F.C. cc/32nd												
p.H.												
MUD LEVEL IN TANKS Ft. Ins.												

PUMPED D
 CIRC. PRESS

lost 8

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	TOTAL BIT FOOTAGE	FEET PER HOUR	BIT CONDITION
2A	17 1/2	XH829	OSC 16 J	3-16 1-22	4	571	699			
2A	17 1/2	XH829	H.W. OSC 16 J	3-16 1-22	13	571	806	135/05		

CORE No.	No.	DST No	FROM	TO	MUD ENGINEER'S REPORT					
TYPE		PREFLOW	mins	IHP	psi	I.F.P.	psi	Time	A.M. / P.M.	Alk
FROM		ISI	mins	F.H.P.	psi	F.F.P.	psi	Mud Wt		Int. Gel / 10 Min. Gel
TO		VO	mins	ISIP	psi	G.T.S.	psi	Visc		W.L.F.C.
Recovery		F.S.I	mins	F.S.I.P.	psi	F.T.S.	psi	A.V.		p.H.
HOURS		RECOVERY						P.V.		Solid

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	H. CHRISTENSEN	D. CNDRIGERS	H. SKINNER			
DERRICKMAN	G. LONG	D. DIAMIKO	H. CHANDLER		699	119°
HELPER	B. JABS	G. HAZBARRIS	U. UJAVE		729	314°
HELPER	T. GRANAM	A. BINNE	U. UJAVE		790	1°
HELPER	J. MACHNAK	J. FLATO	W. WAGSTAFF			
FIREMAN						
TOOL PUSHER	James O. Knorr					

503C WM Shafter CK 47 #1

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1970				
TOUR 1				
GEN	6900	12:20	12:25	R.I.C SERVICE
SANDUST	40 BBS	12:25		Mix GEL; LOSS CIRC MATERIAL
CAUSTIC	150	8:20		Pumping Down Same
TOUR 2				
GEN	1000/lb	8:20	11:00	Mix w/ loss circ Pbk in Suction Tanks.
CAUSTIC	100/lb	11:00	11:45	Key Down 3 singles + THAW Kelly Hoses
SANDUST	10 SAK	11:45	12:20	CYRE slow + Check for loss of mud
		12:20	1:20	Run in to bottom.
		1:20	1:30	Clear 10' fill.
		1:30	2:00	Drill w/ 12m. 60 RPM
		2:00	2:30	Survey + PIC SURV.
		2:30	4:00	Drilling
TOUR 3				
700# Gel		4:10	4:15	Drill
6 SANDUST		4:15	5:15	WORK Pk Survey - Rig Sen.
1/2" Steam Water		5:15	10:10	Drill
		10:10	10:15	WORK Pk
		10:15	10:40	SURVEY
		10:40	12:00	Drilling

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

PUMPED DOWN APPROX 100 BBLs. MUD (SLIGHT RETURN)
CIRC. PRESS HOLDING (500 IDLING)

lost 80 BBLs of Fluid.

1/9°
3/4°
1°

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **C.P.**

RIG NO **15**

FIELD **WILDCAT**

WELL NAME **66° 42' LSD W137° SEC 2 TWP**

Rue W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

JAN 13 1971

S.O.B.C. W.

MEDICAL CHEMICALS ADD

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS .. D.P.	NO	FT	NO	FT	NO	FT	NO	FT	
SINGLE .. D.P.	NO.	FT	NO	FT	NO	FT	NO	FT	
X-OVER SUB .. O.D.		300		300		300		300	
OTHER .. O.D.		466		466		466		466	
DRILL COLLARS 2" 10' O.D.		6049		6049		6049		6049	
DRILL COLLARS 14" 6 7/8 O.D.	NO.	42960	NO	49097	NO	49060			
REAMER .. O.D.	KIND		KIND		KIND				
STABILIZER .. O.D.	KIND		KIND		KIND				
JARS	KIND		KIND		KIND				
BUMPERSUB Float Sub	KIND		KIND	218	KIND	2218			
BIT OR CORE BARREL		180				180			
TOTAL D.P. & TOOLS				62421		65783			
KELLY DOWN (BELOW R.B.)		4180		3300		4180			
DEPTH OF TOOLS		54107		65721		69927			

TOUR	DEPTH
AL STEARNE	10
DISAK	3
SULETA	15

TOUR	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED
	541	326	215	657	541	116	699	657	042

TOUR 3
 3500 GEL
 6 SAWDUST
 150 FINE SEAK

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32		TOTAL HOURS	FROM	TO	MUD ENGINEER'S REPORT
				IN 1/32	IN 1/32				
1A	17 1/2	04551	OSC-35	3-16	14 1/2	80	571	498	14 1/2
2A	17 1/2	14824	GSC16	3 1/2	22	2 1/2	571	638	
2A	17 1/2	14829	OSC16 J	3 1/2	22	4	571	699	3 1/2

Grounds
 Air volume
 Liquid
 120 GALLONS
 8.4
 27
 41
 857 GALLONS
 17 in high
 Lost SOB
 Formation

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	K. KRISTENSEN	A. CHAMBERLAIN	A. SKINNER	total	320	7/8
DERRICKMAN	E. LANG	W. DAVILA	M. CHANDLER	total	380	4/2
HELPER	B. TABS	G. HAZBIRER	J. V. GALE	total	480	4/4
HELPER	T. GRIFFIN	A. BILTZ	W. WAGSTAFF	total	500	1/4
HELPER	J. MACHNAK	J. FLATO		total	620	1/2
FIREMAN				total	698	7/8
TOOL PUSHER						

GALE BL
 ENG BL
 J. V. GALE
 7/8

S.O.B.C. Wm. SHAEFFER CKST #1

Drilling Authority # 464

MUD and CHEMICALS ADDED			From		To		OTHER HOURLY OPERATING DETAIL	
							WORK DONE	
1971	Kind	Amount						
ON TOUR	TOUR 1		12 ⁰⁰	12 ⁴⁵				RIG SERVICE, CIRC WORK PIPE SURVEY.
4 60	AL. STEARNE	10 #	12 ⁴⁵	1 ¹⁵				DRLG.
	DISAL	20 GAL	1 ¹⁵	1 ⁴⁵				WORK TIGHT CORN (NO RETURNS)
	SULFEX	15 GAL	1 ⁴⁵	2 ³⁰				DRLG.
3 00			2 ³⁰	3 ¹⁵				WORK PIPE SURVEY @ 380' 1/2"
4 66			3 ¹⁵	4 ³⁰				DRAG.
0 49			4 ³⁰	6 ⁰⁰				WORK PIPE SURVEY @ 480' 1/4" (TIGHT WORK)
0 60			6 ⁰⁰	8 ⁰⁰				PIPE FOR RETURNS.
			8 ⁰⁰	8 ¹⁵				DRAG.
	TOUR 2		8 ¹⁵	9 ⁰²				CON + CIRC TO END W/PIPE TO GET RETURNS
	GUMFOSE SNG	30 GAL	9 ⁰²	9 ³⁰				DRILL.
	AN. STEARNE	10 LBS	9 ³⁰	9 ⁴⁰				CIRC W/PIPE.
2 18	DISAL	10 GAL	9 ⁴⁰	10 ³⁰				CONTR - SURVY - TAKEN OFF ROTATING HEAD
1 50	BENIDITE	1600 LBS	10 ³⁰	11 ¹⁵				HOIST OUT 12" @ 571
7 33			11 ¹⁵	12 ⁰⁵				CHANGE BITS + RUN IN.
1 80			12 ⁰⁵	12 ⁴⁵				PUT ON ROTATING HEAD - CHANG 15' F.L.H.
9 27			12 ⁴⁵	1 ²⁸				DRILLING
TOUR	TOUR 3		1 ²⁸	2 ⁰⁰				CIRC - CON + SURVY
9	3500 GAL		2 ⁰⁰	2 ¹⁰				DRILL.
7	6 SAWDUST		2 ¹⁰	3 ⁰⁰				CIRC - CON + SURVY
2	150 FIBRE SEAK		3 ⁰⁰	4 ⁰⁰				DRILLING
			4 ¹⁰	4 ³⁰				CONNECTION - CIRC
			4 ³⁰	5 ³⁰				CONNECTION - CIRC
			5 ³⁰	6 ⁰⁰				DRILL
			6 ⁰⁰					SURVEY

CEMENTING TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

GROUNDWATER

Air volume 300 C.F.M.
 Liquid 16 gal
 WEIGHTS - 300 CF PARM W. AIR.
 AIR LIQUID RATIO - 22.8

Air volume 300 C.F.M. IN AIR
 Air liquid ratio - 22

Lost 50 Bbls of mud in formation

GAL BLW AT THE END OF THE BULLIE LINE AT 665 FEET.
 THEN FLARED AND LUBRICATED,
 THEN KILLED WITH SAND.

6⁰⁰ Well Blowing. Run
 8⁰⁰ Gas at end of bleigh
 8³⁰ Pump Down Hole Kick
 9⁰⁰ Guide Valves, Pump Down
 10⁰⁰ Hole losing mud.
 11⁰⁰ Wait on water.
 12⁰⁰ mixing mud + loss pipe
 underwind

th	Reading
0	7/8
	4/2
	4/4
	1/4
	4/2
	7/8

[Handwritten Signature]

SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *Wildcat*

WELL NAME

N. 66° 42' W 132° 20'

CONTRACTOR *G.P.*
LSD SEC TWP

RIG NO

15-

S. 0130

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

Jan 12 1971

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS .. D.P.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.
SINGLE .. D.P.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.
X-OVER SUB .. 7" O.D.		300		300		300		300				
OTHER <i>Ball</i> .. O.D.		466		466		466		466				
DRILL COLLARS .. 10 O.D.		333		333		604		604				
DRILL COLLARS .. O.D.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.	NO.	FT.
REAMER .. O.D.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.
STABILIZER .. O.D.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.
JARS	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.
BUMPER SUB	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.
BIT OR CORE BARREL		180		180		180		180				
TOTAL D.P. & TOOLS		4283		6995		6995						
KELLY DOWN (BELOW R.B.)		4180		4180		4180						
DEPTH OF TOOLS		8463		11175		11175				326		

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR	84			FEET	110			FEET			326	FEET
DEPTH START OF TOUR	73			FEET	84			FEET			110	FEET
FOOTAGE DRILLED	111			FEET	26			FEET			216	FEET

DAY WORK	HOURS				HOURS				HOURS				
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.	
<i>PUMP COMPRESSOR</i>										160	160	160	160
ROTARY SPEED R.P.M.										5m	10m	15m	15m
WEIGHT ON BIT M lbs.													
MUD WEIGHT lb/gal													
VISCOSITY sec/qt													
W.L.F.C c.c./32nd													
p.H.													
MUD LEVEL IN TANKS Ft. Ins													

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET HR	BIT CONDITION
1A	17 1/2	BK551	DSC 3 J	3/16		0	84	84 1/2	
1A	17 1/2	BK551	DSC 3 J	10-3					

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT							
					PREFLOW	mins	F.H.P.	psi	F.P.P.	psi	Visc	W.L.F.C.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER <i>A. Skovick</i>	<i>K. CHRISTENSEN</i>	<i>A. CHAMBERS</i>				
DERRICKMAN <i>M. Chawick</i>	<i>E. LONG</i>	<i>W. DANESKO</i>	TOTCO	60	1 1/8	
HELPER <i>V. VOGLER</i>	<i>B. TABS</i>	<i>G. HABERER</i>	TOTCO	140	1/4	
HELPER <i>W. Waggstaff</i>	<i>J. GRAHAM</i>	<i>A. BIZNEZ</i>	TOTCO	170	1/2	
HELPER <i>V. VOGLER</i>	<i>J. MACHNAK</i>	<i>S. FLATO</i>	11	230	1/4	
FIREMAN <i>Jan...</i>						
TOOL PUSHER <i>Jan...</i>						

SURFACE GEAR 20
ALL SHOWN 20
DIESEL OIL 20

Sp...
Drilling...

CUBIC...

Compressor
Miss Pump
Miss Pump
Barton
160' B...
20' Shaft

S.O.B.C W.M Shafter CKYT #1

MUD & CHEMICALS ADDED			From		To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	Kind	Amount				
TOUR			12 ⁰⁰	1 ⁰⁰		BREAK OFF 12" BIT TO MAKE 1 1/2 BIT SURVEY
			1 ⁰⁰	1 ⁰⁰		PICK UP Kelly + Retain Bushings +
			1 ⁰⁰	6 ¹⁰		WORK ON ROTATING HEAD
			6 ¹⁰	7 ⁰⁰		MIXING UP SOAP
			7⁰⁰	7 ⁰⁰		DRILL - Spudded
			7 ⁰⁰	8 ⁰⁰		TAKE OUT ROTATING HEAD + R. TO PICK UP 10" COLLARS
			8 ⁰⁰			PICK UP 10" D.C.
				9 ³⁰		RIG SERVICE WORK ON LUB PUMP IN COMPOUNDS. MAKE UP ROTATING HEAD
			9 ³⁰	10 ¹⁵		DRILL
			10 ¹⁵	11 ¹⁵		HOOK UP 2" WATERLINE FOR AIR SOAP MIXER
			11 ¹⁵	1 ³⁰		DRILL
			1 ³⁰	2 ¹⁵		PULL ROTATING HEAD SURVEY
			2 ¹⁵			PICK UP ROTATING HEAD, FILL ON BTM DRAIN OFF ROTATING HEAD OFF, REAM TO BTM.
				4 ⁰⁰		TAKE OFF ROTATING HEAD + MAIN CON.
				4 ¹⁵		DRILL w/ slow RPM TO GET DOWN TO 2" IN ROTATING HEAD
				5 ¹⁵		DRILL w/ 5 m
				7 ⁰⁰		CR. + SURVEY 9 ³⁰ - 10 ⁰⁰
				7 ²⁰		DRILL 10 ⁰⁰
				8 ⁰⁰		CR. w/ 17, 20 + SURVEY
				8 ³⁰		DRILLING

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Spudded 7⁰⁰ AM Jan 12/71
Drilling with Air Foam mixture

CUBIC FT PER MIN. OF AIR. - 375'

Compressor: WEN 2 Stage Gardner Denver 300psi max 800 cfm

3 Mist Pumps: Gardner Denver Triplex 4000/hr (one standby)

Mist Pump Flow Meter

Barton Graph with meter run

160' Blossey line + two Barber Gates

20" Shafter rotary head complete with rubbers

CONDITION
S REPORT
Gel
Min. Gel
I.F.C.
A.p.p.m
L.p.p.m

h	Reading
	1 1/8"
	7/4
	1/2
	1/4

[Signature]
SIGNATURE COMPANY NEER