

TOUR REPORT

CONTRACTOR *C.P. DRILLING* RIG NO.

FIELD *EAGLE PLAIN* WELL NAME *N66*

SD *12* SEC *W137* TWP *22*

CHEERO

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

Jan 5 1975

MATERIALS CHEMICALS
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		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			FT		FT		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
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 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	SP. IN. P.S.I.	
ROTARY SPEED	R.P.M.	
WEIGHT ON BIT	M. lbs.	
MUD WEIGHT	lb. gal.	
VISCOSITY	sec. dt.	
W.L.F.C.	cc. 32nd	

*Felt
Big Kelly*

NO.	SIZE	SERIAL	BIT KIND AND TYPE	DEPT. IN FEET	REMARKS
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CORE	No.	No.	DST No.	FRDY	
TYPE			PREFLOW	FRDY	
FROM			V.O.	FRDY	
TO			FS	FRDY	
RECOVERY			RECOVERY		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
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DRILLER *Ed Krawchuk*
 DERRICKMAN *M Fraser*
 HELPER *Ferr Scott*
 HELPER *W. S. ...*
 HELPER *Pat ...*
 FIREMAN
 TOOL PUSHER *Ed ...*

TOUR REPORT

CONTRACTOR *C.P. DRILLING* RIG NO. _____

FIELD *EAGLE PLAIN* WELL NAME *N66*

SD *12* SEC *W137* TWP *22*

Rd _____ W _____

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

Jan 5 1975

CHEERO

MUD CHEMICALS

Kind

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

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 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 PM

PUMP	SP. IN. P.S.I.	
ROTARY SPEED	R.P.M.	
WEIGHT ON BIT	M. lbs.	
MUD WEIGHT	lb. gal.	
VISCOSITY	sec. dt.	
W.L.F.C.	cc. 32nd	

p.H.	
MUD LEVEL IN TANKS	ft. ins.

NO.	SIZE	SERIAL	BIT KIND AND TYPE	DEPT. IN FEET	REMARKS

CORE No.	No.	DST No.	FRUV	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>Ed Krausner</i>		
DERRICKMAN	<i>M. Fraser</i>		
HELPER	<i>F. E. Scott</i>		
HELPER	<i>W. S. ...</i>		
HELPER	<i>W. ...</i>		
FIREMAN			
TOOL PUSHER	<i>Ed ...</i>		

*Felt
Big Kelly*

TOUR REPORT

FIELD **EAGLE PLAIN** WELL NAME **N64**
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

CONTRACTOR **GP DRILLING** NO. **12** SEC. **137** TWP. **22**

CHEMICAL

WELL CHEMICAL

Kind

FOR 24 HOURS ENDING MONDAY **Jan 11 1972**

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	DP	NO	FT	NO	FT	NO	FT	FT	NO	FT	NO	FT
SINGLE	DP	NO	FT	NO	FT	NO	FT	FT	NO	FT	NO	FT
X OVER SUB	OD		FT		FT		FT	FT		FT		FT
OTHER	OD		FT		FT		FT	FT		FT		FT
DRILL COLLARS	OD		FT		FT		FT	FT		FT		FT
DRILL COLLARS	OD	NO	FT	NO	FT	NO	FT	FT	NO	FT	NO	FT
REAMER	OD	KIND	FT	KIND	FT	KIND	FT	FT	KIND	FT	KIND	FT
STABILIZER	OD	KIND	FT	KIND	FT	KIND	FT	FT	KIND	FT	KIND	FT
JARS		KIND	FT	KIND	FT	KIND	FT	FT	KIND	FT	KIND	FT
BUMPER SUB		KIND	FT	KIND	FT	KIND	FT	FT	KIND	FT	KIND	FT
BIT OR CORE BARREL			FT		FT		FT	FT		FT		FT
TOTAL DP & 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	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			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:30 AM	2:00 PM	4:00 PM
PUMP	/				/			
ROTARY SPEED								
WEIGHT ON BIT								
MUD WEIGHT					7.5			
VISCOSITY					10			
WL F C	/				/			
pH								
MUD LEVEL IN TANKS	Ft. Ins							

NO.	SIZE	SERIAL	BIT KIND AND TYPE	DEPT. WHEN USED	DEPT. WHEN RECORDED

CORE No.	No.	DST No.	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed Krawchuk	J. PETERSON	C. FASER
DERRICKMAN	J. FINZER	J. PETERSON	J. FINZER
HELPER	Ken Smith	Red Rogers	J. FINZER
HELPER	L. Judson	M. FINE	L. BOICE
HELPER	Red Kyle	S. JARWAST	J. FINZER
FIREMAN			
TOOL PUSHER			

REFRIGERATE
 AM BIE
 A L Co
 1/2 qt Fluor
 Plug in 3'
 mix water
 fill
 Close
 operate
 at 650
 stand
 1/2 qt w
 Plug in 4'
 plug in
 plug in

CHERRON SOBC WM PARKIN YTC - 33

VOLUME CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE	
Kind	Amount	From	To	
TOUR		1200	300	WOC
		300	320	RUN IN FEEL plug #2
		330	400	PULL UP TO RUN plug #2
		450		CIRC TO RUN plug #3
			510	WOC
		500	630	CEMENT plug #3 down to 635'
		630	700	PULL 9 STANDS
		700	800	CIRC WOC
TOUR 2		800	1000	WOC
		1100	1200	Run in Feel for plug #3
		1200	1330	CIRC
		1330	1600	PRESSURE up hole
		1600	1630	HOIST TO RUN plug #4
		1630	730	CEMENT plug #4
TOUR 3		730	745	SPARKS plug #4
		745	815	CIRC
		815	845	HOIST
		845	1200	W.O.C.

REFRIGERATION CONDUCTOR BBL

AMBIENT TEMP -35°
 ALCOHOL RETURNS 7°

Set Plug #2 at 2090' KR. @ 4:00 AM
 Plug #3 1820 - 1820 w/150 gal cement + 3% Coals during 15 min mixing time 10 min displacing time 5 min Plug down at 6:15
 Set Plug #3 at 1825' at 5:00 AM.
 Close by shut 7 pipe valve & pressure up on formation - Brake at 750 psi & pump at 1/2 RPM at 650 psi Pumped 4 BBLs and - instantaneous standing pressure 550 psi - filled to 350 psi in 51 found wt 9.5 #/gal, viscosity 90.
 Plug #4 790 - 790 w/175 gal cement + 3% Coals during 15 min mixing time 12 min displacing time 1 min Plug down at 7:40 PM.

SIGNATURE COMPANY ENGINEER

SINGLE D.P. NO. FT. NO. FT. NO. FT. NO. FT.

X-OVER SUB O.D. *12 1/4 Down & 5 1/2* FT. FT. FT. FT.

OTHER O.D. FT. FT. FT. FT.

DRILL COLLARS O.D. NO. NO. NO. NO.

REAMER O.D. KIND KIND KIND KIND

STABILIZER O.D. KIND KIND KIND KIND

JARS KIND KIND KIND KIND

BUMPER SUB KIND KIND KIND KIND

BIT OR CORE BARREL FT. FT. FT. FT.

TOTAL D.P. & TOOLS FT. FT. FT. FT.

KELLY DOWN (BELOW R.B.) FT. FT. FT. FT.

DEPTH OF TOOLS FT. FT. FT. FT.

TOUR MORNING TOUR DAYLIGHT TOUR AFTERNOON TOUR

DEPTH END OF TOUR FEET FEET FEET FEET

DEPTH START OF TOUR FEET FEET FEET FEET

FOOTAGE DRILLED FEET FEET FEET FEET

DAY WORK HOURS HOURS HOURS HOURS

PUMP S.P.M. P.S.I. 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.

ROTARY SPEED R.P.M.

WEIGHT ON BIT M. LBS.

MUD WEIGHT lb/gal

VISCOSITY sec/cst

W.L.F.C. cc/gal

p.H.

MUD LEVEL IN TANKS Ft. Ins.

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

FROM NO. DST. NO. FROM TO

TYPE PREFLOW mins. L.H.P. p.s.i. F.P. d.s.l. Time AM PM A.K.

FROM ISL F.H.P. d.s.l. F.F.P. p.s.l. Mud Wt. 10 Min. Gel

TO V.O. mins. ISIP p.s.l. G.T.S. Visc. 10 Min. Gel W.L.F.C.

RECOVERY F.S.I. F.S.I.P. mins. F.T.S. mins. A.V. Solid %

SIGNATURES MORNING TOUR DAYLIGHT TOUR AFTERNOON TOUR DEVIATION RECORD Kind Depth Feeding

DRILLER *Ed H. ...*

DERIGMAN *Ed ...*

MUD ENGINEER'S REPORT

CEMENTING TESTING

LOG # 1 2810 - 15 min

Apply Plug # 1

30 min - 15 min

10 min - 15 min

CHEVRON 508C WMI Plan No 476-33.

M. L. CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1972	Kind	Amount		
OUR	TOUR 1	172	172	RECORD OPEN END SLIP CABLE
FT		172	510	WIND UP TO 5' END OF
FT		510	545	CHANGE CEMENT PLUG # 1
FT		545	600	PULL OUT SLURRY - 8 STANDS
FT		600	730	CIRC
FT		730	800	PULL OUT PIPE WGT 7 STANDS.
FT				CIRC HOBE
FT	TOUR 2	8:50		
FT			9:00	TRIP OUT
FT		9:00	2:30	RUN IN 2 COLLARS, LAY DOWN
FT		2:30	4:00	RUN IN 2 FEET FOR PLUG MEASURE IN
FT				
FT		4:00	4:45	MEASURE IN FEET FOR PLUG
FT		4:45	5:00	TRIP FOR PLUG
FT		5:00	5:45	HOIST 7 SINGLES + CIRC
FT	TOUR 3	5:45	7:20	CEMENT PLUG # 2
FT		7:20	7:45	HOIST 10 STANDS
FT		7:45	8:00	WASH CIRC
FT		8:00		LAY DOWN D/PIPE
FT			12:00	W.D.S

CEMENTING TESTING FIRING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Plug # 1 2700 - 3010' with 110 lbs cement + 3% CaCl₂ slurry 154/gal
 10 min. Mixing. Drop curve time 15 min pumped 387 bbls
 displacement. Plug down at 5:10 AM.
 Jolt Plug # 1 at 2780' K.B.
 Run Plug # 2 2340' - 2130' with 110 lbs cement + 3% CaCl₂ slurry 154/gal
 10 min. Mixing time 10 min - Displacement time
 10 min - Plug down at 6:55 P.M.

REFRIGERATION CONDUCTOR BIBL
 AMBIENT TEMP - 35°
 HLCOTHO' 4 TURNS 100

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *BIT DRILLING*

FIELD *EAGLE PLAINS* WELL NAME *W66*

LOG NO *12* DATE *W131 22*

Case

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

JAN 12

1974

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO	<i>28' 71'</i>	<i>75'</i>		<i>75'</i>
SINGLE	D.P.	NO				
X OVER SUB	O.D.		<i>300'</i>			<i>300'</i>
OTHER	O.D.					
DRILL COLLARS	O.D.	<i>16</i>	<i>444'</i>	<i>18'</i>		<i>424'</i>
DRILL COLLARS	O.D.	NO				
FLAMER	O.D.	KIND				
STABILIZER	O.D.	KIND				
JARS	O.D.	KIND				
BUMPER SUB	O.D.	KIND				
BIT OR CORE BARREL	O.D.	KIND				
TOTAL D.P. & TOOLS			<i>4090'</i>	<i>93'</i>		<i>4093'</i>
KELLY DOWN BELOW B			<i>3218'</i>			<i>3218'</i>
DEPTH OF TOOLS			<i>4123'</i>	<i>11'</i>		<i>4113'</i>

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR	<i>5123'</i>	<i>4113'</i>	<i>4113'</i>
FOOTAGE DRILLED			

DAY WORK	2:30 AM	4:00 AM	6:00 AM	8:00 AM	10:30 AM	12:00 PM	2:00 PM	4:00 PM	6:00 PM
PUMP	<i>ARIP</i>								
ROTARY SPEED	<i>ARIP</i>								
WEIGHT ON BIT	<i>ARIP</i>								
MUD WEIGHT	<i>ARIP</i>								
VISCOSITY	<i>ARIP</i>								
W.L.F.C.	<i>ARIP</i>								
pH	<i>ARIP</i>								
MUD LEVEL IN TANKS	<i>ARIP</i>								

NO.	SIZE	SERIAL	BIT KIND	NO. OF TOOTH	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>Ed K... HOK</i>		
DERRICKMAN	<i>M... SON</i>		
HELPER	<i>B... SWIFT</i>		
HELPER	<i>D... SULLIVAN</i>		
HELPER	<i>Rid Kyle</i>		
FIREMAN			
TOOL PUSHER			

*REFRIGERANT
FLAMMABLE
ALCOHOL
DST #6
IN 4 1/2"
JOINT - TO
RECORDED
INTERVAL
PREFLOW
5:10 AM
GOOD IN
AND VERY
SURFACE
400*

CHEVRON SUBC UNIT #1011 & TC-33

CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE		
1974	Kind	Amount	From	To	
OUR	TOUR 1		1500	115	PICK UP TAIL LINE
05			115	215	PUT DOWN LINE TOWARD INTAKE SHUT OFF HEADS & TAIL LINE ^{HOOK UP TO STORE}
00			215	215	PUT FLAIR LINE W AIR EXHAUST TO STEAM
08			515	515	HEATING STEAMING TEST TOOLS AND MAKE SHAME UP
			515	800	RUN IN TEST TOOL SHUT
	TOUR 2		800	830	STOP UP TESTING TOOL
			830	215	TO STEAM
			215	230	SHUT OFF TESTING TOOL
			230	400	HOIST TEST #6 2100
03			400	500	HOIST TEST #6 2100
04			500	1015	LAY DOWN TEST TOOLS & SERVICE
01	TOUR 3		1015	1045	HOIST TAIL PIPE
			1045	1100	TO SERVICE
			1100	1115	WAIT ON ORDERS
			1115	1200	SUN IS FOR END, MEASURE IN

VENTING TESTING FISHING DETAIL TOP DETAILS PACKING OPERATING T.M.V.A. 15

REFRIGERATION CONDUCTOR BBL:
 AMBIENT TEMP. -30°
 ALCOHOL RETURNS: 8° (7 3/4" P.T. RUBBERS) M.F.E. TOOL
 DST #6 1530-1630 KAN LOANSTON DUAL STRADDLE PACKERS
 ON 4 1/2" F.H. DRILL PIPE KAN 6 3/4" LEE HYDRAULIC JARS - SAFETY
 JOINT - PUMP-OUT SUB 90' ABOVE TOOL, 3-AKI PRESSURE
 RECORDERS - ONE INSIDE ~~AB~~ IN THE TOOL - ONE OUTSIDE IN THE
 INTERVAL - ONE OUTSIDE BELOW BOTTOM PACKERS TANK 500
 PREFLOW 10:05 - 10:10 AM - GOOD AIR BLOW - INITIAL SHUT IN 45 MIN
 10:10 AM to 9:55 AM. V.O. 70 MINS 10:05 AM - 11:35 AM
 GOOD INITIAL PUFF (AIR) AFTER 30 MINS DECAYING TO WEAK
 AND VERY FAINT AT END OF FLOW PERIOD. NO GAS TO
 SURFACE. F.S.I. 150 MINS 11:40 AM - 14:10 P.M.
 el of water recovered 200 ppm el of mud recovered on test
 400 ppm.

H. Perkins
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD NAME **EAGLE PLAINS** WELL NAME

N 66° 12' W 137° 22'

CONTRACTOR **G.P. DRILL**

WELL NO **14**

CHEVRON SUB

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12:00 NIGHT

JAN 11

1972

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR				
STANDS	D.P.	NO 38	35	91	75	NO	35	91	75			
SINGLE	D.P.	NO										
X-OVER SUB	O.D.			300	FT			300	FT			
OTHER	O.D.				FT			496	18			
DRILL COLLARS	O.D.			496	18							
DRILL COLLARS	O.D.	NO			FT	NO						
REAMER	O.D.	KIND			FT	KIND						
STABILIZER	O.D.	KIND		435	FT	KIND						
JARS	KIND				FT	KIND						
BUMPER SUB	KIND				FT	KIND						
BIT OR CORE BARREL					FT							
TOTAL D.P. & TOOLS				4095	28			4090	93			
KELLY DOWN (BELOW R.B.)				2800	FT			3218	FT			
DEPTH OF TOOLS				4123	28			4123	11			

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR	4123	4123	4123
FOOTAGE DRILLED			

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	LOGGING											
ROTARY SPEED	1150 / 54 / 1450 / 20											
WEIGHT ON BIT	AP											
MUD WEIGHT												
VISCOSITY												
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN INCHES	TOTAL FEET DRILLED	FROM	TO	REMARKS

CORE No	No	DST No	FROM	TO	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	R. CHRISTENSEN	E.D. KRANICHUK	C. THASER
DERRICKMAN	P. JONES	M. FINEST	K. JENSEN
HELPER	K. SCOTT	R. ROGER	K. SCHMIDT
HELPER	W. FINLAY	MI. KING	K. SCHMIDT
HELPER	B. FINLAY	ROD KYLE	M. SCHMIDT
FIREMAN			
TOOL PUSHER	Alan Sadegh		

REFRIGERATION
 FROM BIEN
 AT COLLAR

4015 1 1/4
 65
 70
 9.5
 400

CHEVRON S.O.B.C. Wm PARKIN JTC-33

OTHER HOURLY OPERATING DETAIL WORK DONE

1972	Kind	Amount	From	To	LOGGING
TOUR 1			1200	800	
TOUR 2			800	815	RIG SERV BLIND TRENDS
			815	1045	MAKE UP BIT TRIT IN
			1045		STEEL OUT KELLY HOSE AND SWIVER
				1145	MAKE SAME UP.
			1145	1215	BREAK CIRC CLEAN TO BT 110 FT FILL
			1215		CIRC HOSE
TOUR 3			400	415	Circ To Log
			1115	700	Blow Kelly, Hoist to Log
			700	730	Rig up to Log
			730	815	Logging
			815	900	Log Pump Log Equipment
			900	915	Rig Service + Blind Rams
			915	1200	Blow up 8400 ft Tail Pipe Measure

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR PBL:
 AMBIENT TEMP. - 74°
 AT CONTROL RETURNS. 10°

Hen Stabilizer

hs

Con

[Signature]
 SIGNATURE COMPANY ENGINEER

6
 50/132
 9.5
 9.5
 70
 400
 Reading
 1 1/4

TOUR REPORT

CONTRACTOR **GP 14** JOB NO **14**

CHEVRON SOL

FIELD **EMME PRINGS** WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

LSD **N66° 12' W 137° 22'** SEC **22** TWP **JAN 10 1972**

DRILLING ASSEMBLY	END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO 38	359175 FT	NO 38	359175 FT	NO	359175 FT		
SINGLE	DP	NO		NO		NO			
X OVER SUB	OD		300 FT		300 FT		300 FT		
OTHER	OD				49618 FT		49618 FT		
DRILL COLLARS	OD		49618 FT						
DRILL COLLARS	OD	NO		NO		NO			
REAMER	OD	KIND		KIND	435 FT	KIND	435 FT		
STABILIZER	OD	KIND	435 FT	KIND		KIND			
JARS		KIND		KIND		KIND			
BUMPER SUB		KIND		KIND		KIND			
BIT OR CORE BARREL									
TOTAL DP & TOOLS			409528 FT		409528 FT		109528 FT		
KELLY DOWN (BELOW R B)			2800 FT		2800 FT		2800 FT		
DEPTH OF TOOLS			412328 FT		412328 FT		412328 FT		

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR	4123 FEET	4123 FEET	4123 FEET
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	LOGGING				LOGGING				LOGGING			
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 INCH	ROTAL HOURS	FROM	TO	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	K CHRISTENSEN		E. K. ...
DERRICKMAN	P JONES		J PETERSON
HELPER	K SCOTT		R ...
HELPER	W FINLAY		M ...
HELPER	B FINLAY		S ...
FIREMAN			
COOL PUSHER			

KEFRIGG
AM BIE
ALCOH
RAN ...
...
...

CHEVRON SUBC Wm PARKIN 475 33

OTHER HOURLY OPERATING DETAIL
WORK DONE

MATERIAL CHEMICALS ADDED		From	To	
Kind	Amount			
TOUR 1		12:00	7:00	1:00:00
TOUR 2		8	4:00	1:00:00
TOUR 3		4	12:00	1:00:00

CEMENTING TESTING FINISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR BBL.

AMBIENT TEMP: -30°

ALCOHOL RETURNS 1.0

RAK Schlumberger BAC Sonic Flow wa temp integrated
 FORMATION Density log (Expanded)
 Fluid & mud Schlumberger Microlog (Expanded)
 RAKon Data Interval on loggers log, SPT per SPT,
 Lake Sediment Soap & Kerogen (over log 24).

6
4.8
1.0
1.5
70
400

xtra stabilizer - this core 205 1/2 hrs.

A. J. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *E.P. DRUG.* WELL NO. *14*

Chlorow 50

FIELD *EAGLE PLAINS* WELL NAME

DRILLING DEEPENING COMPLETING *N46° 12' W 137° 22'*
 REDRILLING ABANDONING REWORKING FOR 24 HOURS (ENDING 12 MIDNIGHT) *JAN 9*

1972

Kind

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS <i>4 1/2</i> D.P. NO. <i>38</i>	<i>3591</i>	<i>75</i> FT	<i>3591</i>	<i>75</i> FT	<i>3591</i>	<i>75</i> FT
SINGLE D.P. NO.						
X OVER SUR. O.D.		<i>300</i> FT		<i>300</i> FT		<i>300</i> FT
OTHER O.D.						
DRILL COLLARS <i>16 7"</i> O.D.		<i>49618</i> FT		<i>49618</i> FT		<i>49618</i> FT
DRILL COLLARS O.D. NO. KIND						
REAMER O.D. KIND		<i>435</i> FT		<i>435</i> FT		<i>435</i> FT
<i>CHRISTENSEN</i> STABILIZER O.D. KIND						
JARS O.D. KIND						
BUMPER SUB. O.D. KIND						
BIT OR CORE BARREL O.D. KIND						
TOTAL D.P. & TOOLS	<i>4095</i>	<i>28</i> FT	<i>4095</i>	<i>28</i> FT	<i>4095</i>	<i>28</i> FT
KELLY DOWN (BELOW R.B.)		<i>1172</i> FT		<i>2800</i> FT		<i>2800</i> FT
DEPTH OF TOOLS	<i>4107</i>	<i>00</i> FT	<i>4123</i>	<i>28</i> FT	<i>4123</i>	<i>28</i> FT

TOUR 1
KENZAN AK GEN

TOUR 2
600

TOUR 3

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>4107</i> FEET	<i>4123</i> FEET	
DEPTH START OF TOUR	<i>4060</i> FEET	<i>4107</i> FEET	<i>4123</i> FEET
FOOTAGE DRILLED	<i>47</i> FEET	<i>16</i> FEET	

DAY WORK	HOURS				HOURS				TOTAL
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	
PUMP S.P.M. P.S.I.	<i>54</i>	<i>54</i>	<i>54</i>	<i>54</i>					
ROTARY S.P.L.E.D. R.P.M.	<i>50</i>	<i>50</i>	<i>50</i>	<i>50</i>					
WEIGHT ON BIT M.lbs.	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>					
MUD WEIGHT lb.gal	<i>11.0</i>	<i>11.0</i>	<i>11.0</i>	<i>11.0</i>					
VISCOSITY sec.cst	<i>51</i>	<i>53</i>	<i>53</i>	<i>55</i>					
W.L.F.C. c.c. 32nd									
pH									
MUD LEVEL IN TANKS Ft. lvs.									

TRIP Logging

*REFRIGER
AMBIENT
ACCORIAL
DOUBLE
SW 2040*

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FEET PER HOUR	TOUR
<i>21</i>	<i>8 3/4</i>	<i>773144</i>	<i>SEC H. 88</i>	<i>2-10</i> <i>1-11</i>	<i>4015 4123</i>

CORE No.	No.	DST No.	PRE FLOW	FROM	TO	RECOVERY	HOURS
							<i>20</i> <i>24</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>K. CHRISTENSEN</i>	<i>E. KILGUS</i>	
DERRICKMAN	<i>P. JONES</i>	<i>J. PETERSON</i>	<i>4015 174</i>
HELPER	<i>K. SCOTT</i>	<i>R. ROGERS</i>	
HELPER	<i>W. FINLAY</i>	<i>M. FINLAY</i>	
HELPER	<i>B. FINLAY</i>	<i>S. THOMPSON</i>	
FIREMAN			
TOXIC PUSHER			

Christensen

CHEVRON S.O.B.C. Wm PARKIN YTC-33

OUR	AJD and CHEMICALS ADDED		From		To	OTHER HOURLY OPERATING DETAIL WORK DONE
	Kind	Amount				
1972			1200	145		DRAG W/ 35 m
	TOLR 1		145	230		BLEED. O.P. ✓
75	KENZAN AK	150 [#]	230	800		DRAG W/ 35 m
	GEN	800 [#]				
00						
8						
5	TOLR 2		700	1045		DRAG W/ 35 m
			1045	1100		Blow Kelly Pipe Gun.
	CEL 600 [#]		1100	230		Hoist to top side m.
			230			THAW OUT C. REEGS.
				400		LAY DOWN 5 m
8						
00						
8	TOLR 3		400	1500		Reg. W. SCHLUMBERGER.
						Lay out SHALE.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR BTL!
 AMBIENT TEMP: -43°
 ACCOIAL RETURNS +7°
 DOUBLE MEASURE PIPE LID 4135.62
 AND 4135.16 in King Ac-corr-action
 ON SCHLUMBERGER DUAL INDUCTION LATERAL LOG 423-823.

6
 14
 5.0 1/2
 9.0
 7.5
 4.00

Christensen Stabilizer! 70% hrs Com. 205 1/2

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *C.A. DRKO.* RIG NO. *14*

FIELD *EMMA FRANKS* WELL NAME

LSD SEC TWP R4N W

SUBC. CHEM

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *JAN 8 1972*

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR		
STANDS	D.P. NO. <i>37</i>	<i>3496</i>	<i>52</i> FT	NO. <i>37</i>	<i>3496</i>	<i>52</i> FT	NO. <i>3496</i>	<i>52</i> FT
SINGLE	D.P. NO.		<i>3181</i> FT	NO.		<i>3181</i> FT	NO.	<i>3181</i> FT
X-OVER SUB	O.D.		<i>300</i> FT		<i>300</i> FT	<i>X 0</i>		<i>300</i> FT
<i>OTHER SUB</i>	O.D.		<i>335</i> FT					
DRILL COLLARS	<i>15</i> O.D.		<i>10518</i> FT		<i>49625</i> FT		<i>49625</i> FT	
DRILL COLLARS	O.D. NO.			NO.				
REAMER	O.D. KIND				<i>435</i> FT	KIND	<i>STAB</i>	<i>435</i> FT
<i>CHRISTENSEN</i>	O.D. KIND		<i>435</i> FT			KIND		
STABILIZER	O.D. KIND					KIND		
JARS	O.D. KIND					KIND		
BUMPER SUB	O.D. KIND					KIND		
BIT OR CORE BARREL					<i>400012</i>			
TOTAL D.P. & TOOLS			<i>3496</i> FT		<i>1900</i> FT		<i>402193</i>	
KELLY DOWN (BELOW R.B.)			<i>1217</i> FT				<i>2900</i>	
DEPTH OF TOOLS			<i>401900</i> FT		<i>401912</i>		<i>406093</i>	
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR		
DEPTH END OF TOUR		<i>4015</i>	FEET	<i>4019</i>	FEET	<i>4060</i>	FEET	
DEPTH START OF TOUR		<i>3180</i>	FEET	<i>4012</i>	FEET	<i>4019</i>	FEET	
FOOTAGE DRILLED		<i>20</i>	FEET	<i>4</i>	FEET	<i>41</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
PUMP	<i>54</i>	<i>54</i>					<i>54</i>	<i>54</i>	<i>54</i>
ROTARY SPEED	<i>50</i>	<i>50</i>					<i>50</i>	<i>50</i>	<i>50</i>
WEIGHT ON BIT	<i>35</i>	<i>35</i>					<i>35</i>	<i>35</i>	<i>35</i>
MUD WEIGHT	<i>11.2</i>	<i>11.2</i>					<i>11.2</i>	<i>11.2</i>	<i>11.2</i>
VISCOSITY	<i>52</i>	<i>52</i>					<i>53</i>	<i>53</i>	<i>52</i>
W.L.F.C.									

MUD LEVEL IN TANKS	Ft. Ins.								
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NO.	SIZE	SERIAL	BIT KIND AREA TYPE	BIT SIZES (IN)	NEW CHANGES	FOUND	REMARKS
<i>20</i>	<i>8 7/8</i>	<i>911034</i>	<i>SEC. H-88</i>	<i>2-10</i>		<i>2623860</i>	<i>4015 155 7.4.2</i>
<i>21</i>	<i>8 7/8</i>	<i>2731842</i>	<i>SEC. H 88</i>	<i>2-10</i>		<i>4015</i>	

CORE	No.	No.	DST No.	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>K. CHRISTENSEN</i>		<i>E. P. W. CHUR</i>
DERRICKMAN	<i>P. JONES</i>		<i>T. PETERSEN</i>
HELPER	<i>K. SCOTT</i>		<i>R. ROZAR</i>
HELPER	<i>M. FINLEY</i>		<i>M. FINE</i>
HELPER	<i>B. FINLEY</i>		<i>S. T. G. W. J. S.</i>
FIREMAN			
TOOL PUSHER			

TOUR 1
TOUR 2
TOUR 3

REFRIGERANT
ANTISEPTIC
ALCOHOL

Christ

SUBC. CHEWON PARKIN 4TC-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

AJD and CHEMICALS ADDED		From	To	WORK DONE
Kind	Amount			
1222		1200	400	DRAG W/ 35 M
1222	TOUR 1	400	500	WORK ON AIRLINES, STEAM LINE.
2 FT		500	515	PIP SER.
1 FT		515	615	LAPELINE SURVEY @ 4015 1 1/4"
0 FT		615	700	BLOW KELLS HOIST
FT		700	730	WORK ON AIRLINES
25 FT		730	800	HOIST.
5 FT	TOUR 2	1300	1000	FINISH HOISTING
FT		1000	1015	PIP SERVICE CLOSE BIVAL PAINS
FT		1015	1100	LAY DOWN JUNK SUB PICK UP BTM
FT		1100	100	HAZE COLLAGE RUN IN W/ BIT # 21
FT		100		BLOW KELLY HOSE W/ STEAM MAKE
3 FT			200	UP SAME THAW OUT SWIVEL
0 FT		200	300	CLEAN TO BTM
3 FT	TOUR 3	300	400	DRAG W/ 12 AT
FEET		400	430	HAZE W/ 25 AT
FEET	KELLEN	430	445	PIP SERVICE BUIS
FEET	100*	445	500	REPLACE TURINE IN KELL?
HOURS		500	515	THAW OUT TANK
12:00 P.M.		515	1200	DRAG W/ 35 M

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

REFRIGERATION CONDUCTOR BBL.
 AMBIENT TEMP: -44°
 ALCOHOL RETURNS: + 8°

Christiansen Stabilizer: 12 1/2 hrs Com: 195

SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **EAGLE PLAINS** WELL NAME

CONTRACTOR

G.P. DRUG

WELL NO

14

DRILLING DEEPENING COMPLETING

N66° 12' W 137° 22'

JAN 7

1972

REDRILLING ABANDONING FEWORKING

FOR 24 HOURS ENDING AT MIDNIGHT

CHEVRON
KIND

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P.	NO 36 340224 FT	NO 36 342224 FT	NO 37 349652 FT
SINGLE D.P.	NO	NO 2 6249 FT	
X OVER SUB O.D.	300 FT	300 FT	300 FT
Junk Sub O.D.	335 FT	Junk Sub 335 FT	335 FT
DRILL COLLARS 16 7 O.D.	46518 FT	46518 FT	46518 FT
DRILL COLLARS O.D.			
REAMER O.D.			
CHRISTENSEN STABILIZER O.D.	435 FT	CHRISTENSEN 435 FT	435 FT
JARS O.D.			
BUMPER SUB O.D.			
BIT OR CORE BARREL			397240
TOTAL D.P. & TOOLS	387812 FT	394061 FT	2310
KELLY DOWN BELOW R.B.	2100 FT	2000 FT	390540
DEPTH OF TOOLS	390700 FT	396061 FT	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	3908 FEET	3960 FEET	3995
DEPTH START OF TOUR	3860 FEET	3908 FEET	3860
FOOTAGE DRILLED	48 FEET	52 FEET	35

DAY WORK	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
PUMP	54 1450	54 1450	54 1450	54 1450	54 1450	54 1450	54 1450	54 1450	54 1450	54 1450	54 1450
ROTARY SPEED	50	50	50	50	50	50	50	50	50	50	50
WEIGHT ON BIT	35	35	35	35	35	35	35	35	35	35	35
MUD WEIGHT	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
VISCOSITY	61	63	67	63	64	64	63	62	64	64	63
W.L.F.C.	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
pH	9.0			9.0							
MUD LEVEL IN TANKS											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FEET	REMARKS
20	8 3/4	911034	SEC H-88	2-10 1-11	3855

CORE No.	No.	DST N	PREP LOW	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	K. CHRISTENSEN	Ed KRAWCHUK	
DERRICKMAN	P. JAMES	JENS PETERSEN 5757	
HELPER	W. FINLAY	P. ROSS	
HELPER	B. FINLAY	M. KINE	
HELPER		S. TARRON	
FIREMAN			
TOOL PUSHER	H. Sodergren		

KEEPING
A. J. BIE
H. J. BIE

Christie

CHEVRON S.O.B.C. Wm Parkin JTC - 33

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1922		1200	415	DRLG w/35 m
UR	TOUR 1	415	430	PC SER. B.O.P. ✓
2 FT		430	800	WILE w/35 m.
0 FT				
5 FT				
8 FT				
5 FT	TOUR 2	800	215	DRLG w/35 m
0 FT		215	230	R.B. SER. B.O.P.
0 FT		230	100	DRLG w/35 m
0 FT				
0 FT				
0 FT				
0 FT				
0 FT	TOUR 3	400	630	DRLG w/35 m
0 FT		630	645	R.B. SER. B.O.P.
0 FT		645	715	WILE w/35 m
0 FT		715	930	Remove Kelly Line Stand Pipe REPLACE
0 FT		930	1200	PC SER. B.O.P. AND 300 IN. 1/4 IN. I.P.
0 FT				DRLG w/35 m

CEMENTING TESTING FISHING SPECIAL FOR DETAILS INCLUDING ENGINEERING SUMMARIES

50
35
112.
113.

REFRIGERATION CONDUCTOR FBL:
 AMBIENT TEMP. - 48°
 ALCOHOL RETURNS +5°

10,16
4.9 3/4
0
10
120
600

Christiansen vitan Stabilizer 20 lbs 1/2% Cem.

Handwritten signature

TOUR REPORT

CONTRACTOR **E.P. DRIC** DIST NO **14**

CHEVRON

FIELD **EAGLE PLAINS** WELL NAME

END SEC TWP R4S W
 DRILLING DEEPENING COMPLETING **N 66° 12' W 137° 22'**
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **JAN 6**

1972

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO 35	330764 FT	NO	330764 FT	NO	330764 FT
SINGLE	D.P. NO 1	3182 FT	NO	6349 FT	NO	6349 FT
X OVER SUB	O.D.	300 FT		300 FT	X O	300 FT
JUNK SUB.	O.D.	335 FT		335 FT	JUNK SUB	335 FT
DRILL COLLARS	O.D.	15	46518 FT	46518 FT		46518 FT
DRILL COLLARS	O.D.	NO	FT	NO	FT	NO
REAMER	O.D.	KIND	FT	KIND	FT	KIND
STABILIZER	O.D.	KIND	FT	KIND	FT	STAB.
JACKS	O.D.	KIND	FT	KIND	FT	KIND
BUMPER SUB	O.D.	KIND	FT	KIND	FT	KIND
BIT OR CORE BARREL	O.D.	FT	FT	FT	FT	FT
TOTAL D.P. & TOOLS		381099 FT		384266 FT		384701 FT
KELLY DOWN BELOW R.B.		4140 FT		1310 FT		1300 FT
DEPTH OF TOOLS		385239 FT		385566 FT		386001 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	3852 FEET	3855 FEET	3860 FEET
DEPTH START OF TOUR	3751 FEET	3752 FEET	3750 FEET
FOOTAGE DRILLED	1 FEET	3 FEET	8 FEET

DAY WORK	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
PUMP	54 1000 54 1000 54 1000				1250 64 1250 64 1250 64				
ROTARY SPEED	55 55				47 47				
WEIGHT ON BIT	10 12 15				14 20				
MUD WEIGHT									
VISCOSITY									
W.L.F.C.									
pH									
MUD LEVEL IN TANKS									

1' MADE W. KEEF RIG. 17 MTS ALCOHOL

NO	SIZE	SERIAL	BIT KIND AND TYPE	FEET DRILLED	FEET REMAINING	REMARKS
19	8 3/4	329520	SEC H 77	3-12 1 1/2	3851 3858	4
20	8 3/4	911034	SEC H 88	7/11	3858	

CORE	No	No	DST NO	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	K CHRISTENSEN		E. F. ...
DERRICKMAN	P TOADES		I ...
HELPER	J FURK		R ...
HELPER	W FINKAY		M ...
HELPER	B FINKAY		S ...
FIREMAN			
TEXT PUSHER	...		

CHEVRON S.O.D.C Wm HARKIN JTC-33

MLD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1972		1830	215	HOIST MAGNET CHAIN OUT
UR	TOUR 1	215	230	RIG SERVICE, CLOSE BLIND RAMS
4 FT		230		LAY DOWN STM. P.C. BREAK OFF
9 FT			330	STAB MAKEUP BIT & JUNK SUB.
0 FT		330	530	RUN IN SLOW
5 FT		530	615	THAW OUT SWIVEL BREAK CIRC.
8 FT		615		CLEAN TO BTM. DRAG ON CONE
			800	WORK JUNK SUB
	TOUR 2	800	845	DRAG ON CONE, WORKING JUNK SUB
2 FT		845	1015	DRAG
		1015	1030	CIRC. WORK JUNK SUB
		1030	1145	BLOW KELLY @ HOIST
		145		CLEAN OUT JUNK SUB
1 FT			1400	SHIP @ CUT LINE
	TOUR 3	400	1115	RIG SERV BLIND RAMS
		1115		PICK UP JUNK SUB MAKEUP BIT
			800	PICK UP STAB TRIP IN SLOW
		800	115	THAW SWIVEL OUT BREAK CIRC
		115	1030	CLEAN TO BTM WORK JUNK SUB
		1030	1200	DRAG

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

1' MADE WHITE DRAG UP CONE.
 REFRIGERATION CONDUCTOR BBL.
 AMBIENT TEMP: -38°
 ALCOHOL RETURNS: -40

5
11
1.8
2/32
1.5
10
120
600

Christian... to... 4... 2... 1... 6... 1...

W. Harkin
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **GP DRAG**

RIG NO **14**

FIELD **EAGLE PLAINS** WELL NAME

DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING

LSD **N 66° 12' W 137° 22'** SEC **JAN 5**

R.P. W

FOR 24 HOURS ENDING 12 MIDNIGHT

1972

SOBC WM
MATERIAL CHEMICAL Kind

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO 34	321268 FT	NO	330764 FT	NO	330764 FT
SINGLE	D.P.	NO	6309 FT	NO	3182 FT	NO	8X82 FT
X-OVER SUB	O.D.		300 FT		300 FT		240 FT
OTHER	O.D.						
DRILL COLLARS	O.D.		49625 FT		49625 FT		49625 FT
DRILL COLLARS	O.D.	NO		NO		NO 505	110 FT
REAMER	O.D.	KIND		KIND		KIND 1709	240 FT
CHRISTENSEN STABILIZER	O.D.	KIND	435 FT	KIND	435 FT	KIND	435 FT
JARS	O.D.	KIND		KIND		KIND	
BUMPER SUB	O.D.	KIND		KIND		KIND	
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS			377937 FT		384306 FT		381474 FT
KELLY DOWN BELOW R.B.			2263 FT		500 FT		2700 FT
DEPTH OF TOOLS			380130 FT		385106 FT		385174 FT

WT MATERIAL **KELZAN AK**

TOUR 2
1-17-72

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	3801 FEET	3851 FEET	
DEPTH START OF TOUR	3754 FEET	3801 FEET	3851 FEET
FOOTAGE DRILLED	47 FEET	50 FEET	

TOUR 3

	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	54	54	54	54	54	54	54	54	54
ROTARY SPEED	48	48	48	48	48	48	48	48	48
WEIGHT ON BIT	35	35	35	35	35	35	35	35	35
MUD WEIGHT	11.0	11.0	11.0	11.1	11.1	11.1	11.2		
VISCOSITY	60	60	61	65	63	65	75		
W.L.F.C.	48			48					
p.H.	9.5			9.5					

TRIP

REFRIG AMBIEN ALCOHOL

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FEET SWES IN LOG	TOTAL HOURS	FROM	TO	REMARKS	
18	8 7/8	912128	SEC H 88	3-12	52 1/4	3499	3851	352	LOST 1 CONG

CORE No.	No.	DST No.	FROM	TO	RECOVERY

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	K. CHRISTENSEN	E. PEDERSON	E. KARJUNEN
DERRICKMAN	P. TONFS	J. PEDERSON	LINE 3757
HELPER	E. FULK	ROD ROGERS	
HELPER	W. FINLAY	M. RING	
HELPER	B. FINLAY	S. TARRANT JR.	
FIREMAN			
TOOL PUSHER			

CHRISTENSEN

SOBC WM PARKIN JTC-33

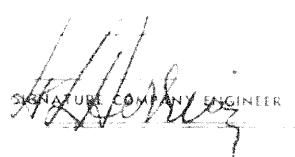
MUD and CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL	
Kind	Amount	From	To	WORK DONE
TOUR 1				
WT. MATERIAL	2000#	12:00	12:30	DRAG w/ 35 m
KEK 2 AN MA	100#	12:30	1:15	SURVES @ 3757 1° HIL SERVICE
			8:00	DOT / BRAKE ✓
				DRAG w/ 35 m.
TOUR 2				
		8:00	10:45	DRAG w/ 35 m
		10:45	11:00	RIG SERVICE BUMP
WELTIN	25#	11:00	3:15	WALK w/ 35 m
WELTIN	2000#	3:15	4:00	CIRC BILL HOLE SAMPLE
TOUR 3				
		4:00	7:00	Blow KELLY HOIST PIPE
		7:00	7:15	RIG SER Blind PAULS
		7:15	10:00	PICK UP RING MAKE SAME UP
			10:00	TRIP IN
		10:00	11:00	BREAK CIRC CHAIN TO STM
		11:00	12:00	Blow KELLY HOIST RING

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR BBL:
 AMBIENT TEMP: -30°
 ALCOHOL RETURNS: 0°

12
17
1.62
32
0.5
10
60
600

Reading 1° Christian tabitz 2017 82316 16" 1/2 2 1/2 m 157 h

SIGNATURE COMPANY ENGINEER


TOUR REPORT

CONTRACTOR *C.P. Drilling* RIG NO *14*

FIELD *King's Plains* WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

COORDINATES *N66° 12' W 137° 22'*
 FOR 24 HOURS ENDING 12 MIDNIGHT *JAN 4/92*

19

MEVCON
 MUD CHEMICALS
 Kind

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	NO	<i>311742</i> FT	NO	<i>311742</i> FT	NO	<i>321268</i> FT
SINGLE	NO. 1			<i>6345</i> FT		
X OVER SUB		<i>300</i> FT		<i>300</i> FT		<i>300</i> FT
OTHER						
DRILL COLLARS						
DRILL COLLARS	<i>7</i> O.D. NO <i>16</i>	<i>49625</i> FT		<i>49625</i> FT		<i>49625</i> FT
REAMER						
STABILIZER	KIND <i>1</i>	<i>135</i> FT		<i>435</i> FT		<i>435</i> FT
JARS						
BUMPER SUB						
BIT OR CORE BARREL						
TOTAL D.P. & TOOLS		<i>362102</i> FT		<i>368447</i> FT		<i>371628</i> FT
KELLY DOWN BELOW R.B.		<i>3540</i> FT		<i>1500</i> FT		<i>3800</i> FT
DEPTH OF TOOLS		<i>365642</i> FT		<i>369947</i> FT		<i>375428</i> FT

TOUR
 TOUR 3
 WATER
 REFRIGER
 AMBI
 ALCOHOL

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>3656</i> FEET	<i>3699</i> FEET	<i>3754</i> FEET
DEPTH START OF TOUR	<i>3630</i> FEET	<i>3656</i> FEET	<i>3699</i> FEET
FOOTAGE DRILLED	<i>26</i> FEET	<i>43</i> FEET	<i>55</i> FEET

DAY WORK	HOURS				HOURS				HOURS			
	2:30 AM	4:00 AM	6:00 AM	8:30 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		<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>	<i>34</i>
ROTARY SPEED		<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>	<i>48</i>
WEIGHT ON BIT		<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>	<i>35</i>
MUD WEIGHT		<i>11.0</i>	<i>11.0</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>
VISCOSITY		<i>60</i>	<i>61</i>	<i>60</i>	<i>60</i>	<i>60</i>	<i>64</i>	<i>62</i>	<i>67</i>	<i>65</i>	<i>65</i>	<i>65</i>
W.L.F.C.							<i>10.5</i>					
pH							<i>10.5</i>					
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND	USED ENPL	ETWENT	FROM	TO
<i>16</i>	<i>8 3/4</i>	<i>712'28</i>	<i>Soc.</i>	<i>488</i>	<i>3/12</i>	<i>3499</i>	

CORE	No	No	DST No	FROM	TO	RECOVER
TYPE						
FROM						
TO						
RECOVERY						
HOURS						

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C. FRASER</i>		<i>Ed KINUSCHUK</i>
DERRICKMAN	<i>K. FRASER</i>		<i>J. FRASER</i>
HELPER	<i>K. SHIELDS</i>		<i>KENSCOTT</i>
HELPER	<i>B. BOICE</i>		<i>R. KYIE</i>
HELPER	<i>N. HARPLE</i>		<i>J. NICHOLSON</i>
FIREMAN			<i>STAN TRANTER</i>
TOOL PUSHER	<i>C.P. Drilling</i>		

NEVRON SOBE WM PARKIN YTC-33

CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
		12 00	12 15	PIO SERVICE
		12 15	12 30	FINISH SURVEYING
		12 30		PACK #1 PUMP TIGHTEN BELTS
			11 30	PUT GUARDS IN PLACES, PUT CHAIN
		11 30	8 00	ON PUMP DRIVE
				Drilling
		8 00	8 30	PIO SERV. CHECK BLOW OUT EQUIPMENT
		8 30	14 00	Drilling
GET		14 00		WORK ON PUMP #1 CHANGED
ZAN	# 100		4 00	HIGH PRESSURE VALVE
ASTEK	# 30			
ASTIC	# 20			
CEL	# 100			
		4 00	7 45	DRILLING 8 3/4 HOLE
		7 45	8 00	HIGH PRESSURE CHECK PIPE BUILT
TER	1/4" ST	8 00	12 00	WELL

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR BBL:
 AMBIENT TEMP: -30°
 CONTROL RETURNS: 0°

Visitansen Tokt... 2013... 2

[Handwritten Signature]
 SIGNATURE COMPANY MEMBER

TOUR REPORT

FIELD *King Plains* WELL NAME *U66° 12' W 137° 22'* CONTRACTOR *G.P. Drilling* RIG NO. *14*
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *JAN 3 1972* 19

CHEVRON
 MUD CHEMICALS
 Kind

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO	302288 FT	NO	2208 FT	NO	302288 FT
SINGLE	D.P.	NO		NO	2173 FT	NO	6265 FT
X OVER SUB	O.D.		300 FT		300 FT		300 FT
OTHER	O.D.						
DRILL COLLARS	O.D.				496.5 FT	16	496.25 FT
DRILL COLLARS	7 O.D.	NO 16	496.25 FT	NO		NO	
REAMER	O.D.	KIND		KIND	435 FT	KIND	435 FT
STABILIZER	O.D.	KIND	435 FT	KIND		KIND	
JARS		KIND		KIND		KIND	
BUMPER SUB		KIND		KIND		KIND	
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS			352648 FT		35582.1 FT		358913 FT
KELLY DOWN (BELOW R.B.)			1440 FT		3200 FT		4100 FT
DEPTH OF TOOLS			354088 FT		359021 FT		363013 FT
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		3540 FEET		3540 FEET		3630 FEET	
DEPTH START OF TOUR		3504 FEET		3540 FEET		3570 FEET	
FOOTAGE DRILLED		36 FEET		50 FEET		40 FEET	

TOUR 1
KELZAN
PLASTER
CAUSTIC
WT. MAT.
1" STAINLESS STEEL
FOR 34.

TOUR 2
WT MAT

TOUR 3
WT MAT
KELZAN

	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	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150	44/1150
ROTARY SPEED	45	45	45	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT	25	25	25	30	30	30	35	35	35	35	35	35
MUD WEIGHT	11.1	11.1	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9	11.0	11.0
VISCOSITY	69	70	72	70	65	68	65	63	63	61	60	60
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

REFRIGERANT
AMBIEN
ALCOHOL

NO.	SIZE	SERIAL	BIT KIND AND TYPE	DEPT. (IN)	FRONT
18	8 3/4	912128	Sec. 488	3/12	3499

CORE No.	No.	DST No.	FROM	TO	RECOVERY

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C. FRASER</i>		<i>F. KAPRANCHUK</i>
DERRICKMAN	<i>K. FRASER</i>		<i>J. FRASER</i>
HELPER	<i>K. SHIELDS</i>		<i>KEVIN SCOTT</i>
HELPER	<i>B. BOICE</i>		<i>BOB KYLE</i>
HELPER	<i>J. HAYPLE</i>		<i>J. NICHOLSON</i>
FIREMAN			
TOOL PUSHER	<i>CR Standen</i>		

WELL ENGINEER'S REPORT
 11.1
 65
 20
 25
 1 1/2
 1 1/4

HEVON SOBC WM PARKIN YTC-33

CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
		12 00	12 15	RIG SERVICE
		12 15	6 45	Drilling
ZAN	# 200	6 45	7 30	SURVEY @ 3527
TAX	# 50	7 30	8 00	Drilling
TIC	# 100			
MAT.	6300			
		8 00	12 15	DRILLING 8 3/4 HOLE W 30 M
	3500	12 15	1 00	RIG SERVICE SURVEY @ 3569
MAT	3500	1 00	4 00	DRILL W 35 000
		4 00	6 00	DRILL 8 3/4 HOLE W 35 000
		6 00		RIG SERV 20 M FULL SEAT IN
MAT	4200		7 15	REPAIR BUN UP TANKS.
ZAN	100	7 15	9 15	DRILL W 35 000
		9 15	9 30	WORKS ON #1 PUMP DRIVER
		9 30	11 15	DRILL W 35 000
		11 15	12 00	SURVEY W 3520

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR BBL:
 AMBIENT TEMP: -26°
 COIL RETURNS: +6°

instrumental... 12/13/63... 12 15

[Signature]
 OPERATING ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO. *14*

FIELD *Keokuk Plains* WELL NAME
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

LSD SEC TWP Rpt W
N 66° 12' W 137° 22' *JAN 2/92* 19

NEVRON
 CHEMICAL Kind

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP NO	29	29	40	NO		29	29	40	
SINGLE	DP NO				NO					
X OVER SUB	OD	1		300					300	
OTHER	OD									
DRILL COLLARS	OD									
DRILL COLLARS	16 O.D. NO			496	NO		16		496	
REAMER	OD									
STABILIZER	OD								435	
JARS										
BUMPER SUB										
BL <i>TEST TOOL</i>				86						
TOTAL DP & TOOLS				351					346	
KELLY DOWN (BELOW R B)				70					40	
DEPTH OF TOOLS									350	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			3504
DEPTH START OF TOUR	3499	3499	3499
FOOTAGE DRILLED			5

	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	<i>TESTING</i>											
ROTARY SPEED	<i>ARIP 45</i>											
WEIGHT ON BIT	<i>25 22</i>											
MUD WEIGHT	<i>72.125</i>											
VISCOSITY	<i>72.1 72</i>											
WLF C												
pH												
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES (in.)	TOTAL FEET	FROM	TO
<i>182</i>	<i>8 3/4</i>	<i>912128</i>	<i>SECURITY H 88</i>	<i>3-12</i>	<i>3499</i>		

CORE	No	No	DST No	FROM	TO	RECOVERY

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>A. FRASER</i>	<i>K. CHRISTENSEN</i>	<i>Ed KRAVUTNIK</i>
DERRICKMAN	<i>K. FRASER</i>	<i>P. JONES</i>	<i>S. FRASER</i>
HELPER	<i>K. SHIELDS</i>	<i>W. DENEIKO</i>	<i>KEN SCOTT</i>
HELPER	<i>R. BOICE</i>	<i>B. FINLAY</i>	<i>ROD KYLE</i>
HELPER	<i>J. MARPK</i>	<i>R. KYLE</i>	<i>J. NICHOLSON</i>
FOREMAN	<i>AK Shambus</i>		

TOUR 1
 TOUR 2
 TOUR 3

REFRIGERANT
 AMBIEN
 ALCOHOL
 DST. 45
 7 3/4" PACKER
 PRESSURE R
 PIPE (30")
 GOOD IN 1100
 (8:10 AM - 9
 TO WEAK IN
 NO GAS TO
 RECOVERED
 I.H.P. 192 P
 MUD WT 80
 B.H.T. 79°
 OK

Ken Stabil

CHEVRON SOBC WM PARKIN YTC-33

MATERIALS AND CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12:00	1:15	FINISH HOIST & DOUBLE MEASURE
		1:15	1:30	RE SERVICE & BLIND RAM'S
		1:30	2:30	SLOW FLARE LINES, CHECK 1/2 DRILL PIPE RAM'S
		2:30	4:30	MOTOR SHUT OFF, HOPE WATER TO MOTOR EXHAUST'S
		4:30	6:30	PICK UP TESTING TOOL & MAKE UP
		6:30	6:45	RUN IN SLOW
		6:45	8:00	HAND UP TEST #5
				TESTING
		8:00	12:15	SLOW OUT EQUIPMENT (CHECKED JAN 2/72) (OK)
TOUR 2				TESTING
		12:15	12:30	PULL PACKER LOOSE BREAK DOWN TEST HEAD
		12:30	3:00	HOIST DST. 5" SHOW
		3:00	4:00	RECOVER CHARTS. BREAK DOWN TOOL
		4:00		BREAK DOWN SERVICE TESTING TOOLS
TOUR 3				LAY DOWN SAME
		5:30	5:45	RIG SERV BLIND RAM'S.
		5:45	6:15	CHANGED PACKING IN PUMP
		6:15	8:30	MAKE UP BIT PICKUP STABILIZER
			8:30	TRIP IN SHOW
		8:30	10:30	BREAK CIRC CLEAN TO BTM 90 FT
		10:30		DRILL 8 3/4 HOLE W/ 25 M.

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

CONDUCTOR
REFRIGERATION ~~ALCOHOL~~ BBL.:

25' AMBIENT TEMP: +4°

25.1' ALCOHOL RETURNS: +1.8°

72' DST. # 5 3300' - 3499' RAM ~~...~~ JOHNSTON TESTING TOOL (DUAL 1 3/4" PACKER RUBBERS) ON 4 1/2" F.H. DRILL PIPE. RAM SAFETY JUNT, 2 (TWO) PRESSURE RECORDERS (ONE OUTSIDE - ONE INSIDE) M.I.F.E. TOOL RAN 199' TAIL PIPE (34" PERFORATED). RAN LEE HYDRAULIC JARS. RAM 5 MIN PREFLOW.

GOOD INITIAL PUFF. INITIAL SHUT IN 45 MINS (7:15 AM - 8:10 AM.) V.O. 30 MIN (8:10 AM - 9:40 AM.) STRONG INITIAL PUFF - GOOD AIR BLOW DECREASING TO WEAK IN FORTY (40) MINS. CONTINUING WEAK TO END OF FLOW PERIOD.

NO GAS TO SURFACE FINAL SHUT-IN 150 MINS 9:40 AM - 12:10 PM. RECOVERED 90' DRILL MUD. CI content before 550' CI content after 550' ppm

I.H.P. 922 PSI. F.I.P. 1901 PSI. I.F.P. 30 PSI. F.F.P. 59 PSI. I.S.I.P. 50 PSI. F.S.I.P. 150 PSI. MUD WT before test 11.1 g/gal after test 11.1 g/gal.

B.H.T. 79° F.S.I.P. incomplete in 150 MINS. GOOD TEST. ~~...~~

Check Data ~~...~~

2' ...
...
...

Xton Stabilizer # 52316 ... COMNRS

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* AREA NO *14*

FIELD *Eagle Arms* WELL NAME

DRILLING DEEPENING COMPLETING

N 46° 12' W 137° 22'

REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 M ON DATE *Jan 1 72*

19

MEYRON
KIND

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO	<i>283439</i>	FT	NO <i>31</i>	<i>292940</i>	FT	<i>292940</i>
SINGLE	D.P. NO	<i>6336</i>	FT	NO <i>1</i>	<i>3106</i>	FT	<i>3106</i>
X OVER SUB	O.D.	<i>300</i>	FT		<i>300</i>	FT	<i>300</i>
OTHER	O.D.		FT			FT	
DRILL COLLARS	O.D.		FT			FT	
DRILL COLLARS	<i>7</i> O.D. NO <i>16</i>	<i>49625</i>	FT	NO	<i>49625</i>	FT	<i>49625</i>
REAMER	O.D. KIND		FT	KIND		FT	
STABILIZER	O.D. KIND	<i>435</i>	FT	KIND	<i>435</i>	FT	<i>435</i>
JARS	KIND		FT	KIND		FT	
BUMPER SUB	KIND		FT	KIND		FT	
BIT OR CORF BARREL			FT			FT	
TOTAL D.P. & TOOLS		<i>340132</i>	FT		<i>346406</i>	FT	<i>346406</i>
KELLY DOWN (BELOW R.B.)		<i>3500</i>	FT		<i>2694</i>	FT	<i>3500</i>
DEPTH OF TOOLS		<i>343635</i>	FT		<i>349100</i>	FT	<i>349906</i>
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		<i>3436</i>	FEET	<i>3491</i>	FEET	<i>3499</i>	FEET
DEPTH START OF TOUR		<i>3412</i>	FEET	<i>3436</i>	FEET	<i>3491</i>	FEET
FOOTAGE DRILLED		<i>24</i>	FEET	<i>55</i>	FEET	<i>8</i>	FEET

GET
PLASTER
KELGAN AT
WT. MATERIAL
CAUSTIC
1/2 STREAM WATER

WT MATERIAL
PLASTER

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR		
	2:30 A.M.	4:00 A.M.	6:30 A.M.	8:00 A.M.	10:30 A.M.	12:30 A.M.	2:30 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.
PUMP			<i>52</i>	<i>52</i>	<i>52</i>	<i>52</i>	<i>52</i>	<i>52</i>	<i>52</i>	<i>52</i>	<i>52</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>
WEIGHT ON BIT			<i>20/35</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			<i>11.1</i>	<i>10.8</i>	<i>10.9</i>	<i>10.8</i>	<i>10.9</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>
VISCOSITY			<i>69</i>	<i>70</i>	<i>49</i>	<i>61</i>	<i>59</i>	<i>61</i>	<i>77</i>	<i>71</i>	<i>71</i>
W.L.F.C.				<i>5.2</i>	<i>4.32</i>		<i>5.2</i>	<i>4.32</i>	<i>6.2</i>	<i>3.72</i>	
pH				<i>9.5</i>		<i>9.3</i>		<i>9.3</i>	<i>8.0</i>		
MUD LEVEL IN TANKS											

REFRIGER
AMBIENT
ALCOHOL

NO.	SIZE	SERIAL	BIT KIND / W.L.F.C.	REMARKS
<i>174</i>	<i>8 3/4</i>	<i>912063</i>	<i>588 SECURITY 3/2</i>	<i>3412</i>

CORE No.	No.	USE	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C. FARSEK</i>	<i>K. CHRISTENSEN</i>	<i>E. KRANICHUK</i>
DERRICKMAN	<i>K. FARSEK</i>	<i>P. JONES</i>	<i>P. FARSEK</i> LINE 3440 1/4
HELPER	<i>K. SHIELDS</i>	<i>J. FULK</i>	<i>D. COLLINS</i>
HELPER	<i>B. BOICH</i>	<i>B. FINLAY</i>	<i>R. KYLE</i>
HELPER	<i>J. MARPLE</i>	<i>R. KYLE</i>	<i>J. NICHOLSON</i>
FIREMAN			
TOOL PUSHER	<i>Colt Hambus</i>		

NEVRON SOBC WM PRAKIN YC-33

CHEMICALS ADDED		DATE		OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount	From	To	
		12 00	12 15	HOIST DR, CHANGE BITS
		12 15	12 30	RIG SERVICE & BLIND RAN'S
		12 30	2:30	RUN IN SLOW W/BIT #17
Gal #	300	2 30	3 00	WORK ON AIR LINES
		2 30	4 00	BANK CIRC & REAM 10ft TO BIT
		4 00	8 00	DRILLING
		8 00	8 15	DRAG W/35 M
TER	30#	8 15	9 00	SURVEY @ 3440 1 1/4" RIG SERVICE
AN AL	150#	9 00	9 00	BOP J, CROWDMATIC
MATERIAL	4500#	9 00	7 00	DRAG W/35 M
TIC	50#			
TREATM WATER				
		4 00	7 45	DRAG W/35M 8 3/4 HOLE
MATERIAL	2000#	7 45	9 00	GUN UP TANKS CIRC HOLE
STER	50#	9 00	9 30	TO TEST.
		9 30	12 00	SURVEY @ 3494
				SHOW KELLY DOUBLE SHM TRIP
				OUT

CEMENTING TESTING FINISHING SPECIAL TOP DETAILS INCLUDING ENGINEERING SUMMARIES

REFRIGERATION CONDUCTOR BBL.
 AMBIENT TEMP: 14°
 COOL RETURNS: 30°

[Handwritten Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO *14*

FIELD *Jack Pans* WELL NAME *Y 7-2*
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

33 LSD *SE* TAP *RB*
 N66°12'W137°22'

FUR IN HOURS END NO 12 M ONVERT *Dec 31 19*

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO	<i>274011</i> FT	NO <i>30</i>	<i>283439</i> FT	NO <i>30</i>	<i>283439</i> FT
SINGLE	D.P.	NO	<i>6308</i> FT	NO <i>1</i>	<i>3166</i> FT	NO <i>2</i>	<i>6336</i> FT
X OVER SUB	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>16</i>	<i>49625</i> FT		<i>49625</i> FT		<i>49625</i> FT
REAMER	O.D.						
STABILIZER	O.D.		<i>435</i> FT		<i>435</i> FT		<i>435</i> FT
JARS							
BUMPER SUB							
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS			<i>330680</i> FT		<i>336965</i> FT		<i>340135</i> FT
KELLY DOWN BELOW R.B.			<i>3840</i> FT		<i>1835</i> FT		
DEPTH OF TOOLS			<i>334530</i> FT		<i>338800</i> FT		<i>341235</i> FT
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR			<i>3345</i> FEET		<i>3388</i> FEET		<i>3412</i> FEET
DEPTH START OF TOUR			<i>3309</i> FEET		<i>3345</i> FEET		<i>3388</i> FEET
FOOTAGE DRILLED			<i>36</i> FEET		<i>43</i> FEET		<i>24</i> FEET

GEL
 PLASTER
 KELZAN AH
 12 STREAM

GEL
 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 AM
PUMP	<i>52/1000</i>	<i>52/1000</i>	<i>52/1000</i>	<i>52/1000</i>	<i>52/1000</i>	<i>52/1050</i>	<i>52/1050</i>	<i>52/1050</i>	<i>52/1050</i>	<i>52/1050</i>	<i>52/1050</i>	<i>52/1050</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>35/15</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>30</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>
MUD WEIGHT	<i>11.4</i>	<i>11.4</i>	<i>11.2</i>	<i>11.2</i>	<i>11.1</i>	<i>11.2</i>	<i>11.2</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>
VISCOSITY	<i>70</i>	<i>75</i>	<i>66</i>	<i>67</i>	<i>63</i>	<i>65</i>	<i>67</i>	<i>70</i>	<i>62</i>	<i>62</i>	<i>62</i>	<i>62</i>
W.L.F.C.			<i>6.0/32</i>	<i>5.9/32</i>				<i>5.9/32</i>				
pH			<i>9.5</i>	<i>9.5</i>				<i>7.5</i>				
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND	WEAR TYPE	FEET	IN	FEET	IN	FEET	IN
<i>18</i>	<i>8 3/4</i>	<i>340940</i>	<i>M88</i>	<i>SECURITY</i>	<i>3/2</i>	<i>33</i>	<i>3221</i>	<i>2410</i>	<i>191</i>	<i>33-1</i>

CORE NO.	NO.	DST NO.	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C. FANSEK</i>	<i>K. CHRISTENSEN</i>	<i>Ed KRAWCHUK</i>
DRILLING	<i>K. FANSEK</i>	<i>P. JONES</i>	<i>C. FANSEK</i>
HELPER	<i>K. SHIELDS</i>	<i>J. FRANK</i>	<i>D. COLLINS</i>
HELPER	<i>B. BOICE</i>	<i>B. FINNAN</i>	<i>R. KYLE</i>
HELPER	<i>J. MAXWELL</i>	<i>R. KYLE</i>	
FIREMAN			
TOOL PUSHER			

CHEVRON SOBC WA PARK. W MC-33

MATERIALS AND CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
19		12 ⁰⁰	1 ⁰⁰	Drilling
DUR	TOUR 1	1 ⁰⁰	1 ³⁰	SURVEY @ 3307
9 FT		1 ³⁰	1 ⁴⁵	Rig SERVICE
6 FT	GEL # 300	1 ⁴⁵	4 ⁰⁰	Drilling
0 FT				
5 FT				
5 FT	TOUR 2	8 ⁰⁰	9 ¹⁵	DRAG W/ 25 m
5 FT	PLASTER 20#	9 ¹⁵		SURVEY @ 3345 1 1/2 Rig SERVICE
FT	KELZAN AH 100#		9 ⁴⁵	BOP ✓ BRAKE ✓
FT	1/2" STREAM WATER	9 ⁴⁵	2 ³⁰	DRAG W/ 20 m
FT		2 ³⁰	3 ⁰⁰	SURVEY @ 3379 1 1/4
5 FT		3 ⁰⁰	4 ⁰⁰	DRAG W 135 m
5 FT				
5 FT	TOUR 3	4 ⁰⁰	6 ⁴⁵	DRAG 8 3/4 HOLE W 35 m
FEET	GEL 800 800.	6 ⁴⁵	7 ⁰⁰	Rig SERV BOP.
FEET	WATER 1 1/2"	7 ⁰⁰	8 ⁰⁰	WORK ON PUMP CLEAN OUT VALVE
FEET		8 ⁰⁰	9 ¹⁵	DRAG.
HOURS		9 ¹⁵	9 ¹⁵	CIRC BTM HOLE SAMPLE.
12:30 PM		9 ¹⁵	9 ⁴⁵	SURVEY @ 3412.
		9 ⁴⁵	12 ⁰⁰	Blow Riggy Hoist OUT

CEMENTING TESTING - BENCH - SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

P. [Handwritten notes and signatures]

12/14

2. 1 1/2 1/4

Signature COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO *14*

FIELD *Rock Plains* WELL NAME *YTC 33*

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

LOC *N66° 12' W 137° 22'*
 FOR 24 HOURS ENDING 12 M. D. NIGHT *Dec 30/71*

19

CHV
 Kind

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO. <i>270902</i>	FT.	NO. <i>29</i>	<i>273997</i>	NO. <i>29</i>	<i>274011</i>
SINGLE	D.P.	NO.	FT.	NO.	FT.	NO. <i>1</i>	<i>3147</i>
X-OVER SUB	O.D.		<i>300</i>		<i>300</i>		<i>300</i>
OTHER	O.D.		FT.		FT.		FT.
DRILL COLLARS	O.D.		FT.		FT.		FT.
DRILL COLLARS	<i>7</i> O.D.	NO. <i>16</i>	<i>49625</i>	NO.	<i>49625</i>	NO.	<i>49625</i>
REAMER	O.D.	KIND	FT.	KIND	FT.	KIND	FT.
STABILIZER	O.D.	KIND	<i>435</i>	KIND	<i>435</i>	KIND	<i>435</i>
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>321262</i>		<i>324357</i>		<i>327218</i>
KELLY DOWN (BELOW R.B.)			<i>1040</i>		<i>2243</i>		<i>3100</i>
DEPTH OF TOOLS			<i>322302</i>		<i>326600</i>		<i>330418</i>

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>3223</i> FEET	<i>3266</i> FEET	<i>3309</i> FEET
DEPTH START OF TOUR	<i>3221</i> FEET	<i>3223</i> FEET	<i>3266</i> FEET
FOOTAGE DRILLED	<i>2</i> FEET	<i>43</i> FEET	<i>43</i> FEET

TOUR 3
WATER
3" stream
9:00-12:00

	HOURS					HOURS					
	2:30 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	8:30 PM	10:30 PM
PUMP				<i>30</i>	<i>1000 50</i>	<i>1000 50</i>	<i>1000 50</i>	<i>1000 50</i>	<i>1000 50</i>	<i>1000 50</i>	<i>1000 50</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>
WEIGHT ON BIT				<i>30</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>	<i>35</i>
MUD WEIGHT					<i>11.1</i>	<i>11.2</i>	<i>11.3</i>	<i>11.3</i>	<i>11.4</i>	<i>11.4</i>	<i>11.4</i>
VISCOSITY					<i>75</i>	<i>76</i>	<i>74</i>	<i>74</i>	<i>76</i>	<i>78</i>	<i>72</i>
W.L.F.C.					<i>5.9 1/32</i>			<i>5.9 1/32</i>	<i>5.9 1/32</i>		
p.H.					<i>9.5</i>			<i>9.5</i>			

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET SIZES	TOTAL HOURS
<i>16</i>	<i>8 3/4</i>	<i>340943</i>	<i>M88 SECURITY</i>	<i>3/12</i>	<i>3221</i>

CORE No.	No.	DST No.	FROM	TO	RECOVERY	HOURS
						<i>37</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>G. FRASER</i>	<i>K. CHRISTENSEN</i>	<i>ED KRAUWCHUK</i>
DERRICKMAN	<i>K. FRASER</i>	<i>P. JONES</i>	<i>G. FRASER</i>
HELPER	<i>K. SHIELDS</i>	<i>C. HAIDERER</i>	<i>D. COLLINS</i>
HELPER	<i>B. BOICE</i>	<i>B. FINLAY</i>	<i>R. KYLE</i>
HELPER	<i>J. MASPLE</i>	<i>J. FURK</i>	<i>I. NICHOLSON</i>
FIREMAN			
PUSHER	<i>CR Schubert</i>		

CHEVRON SOBC WM PARKIN YTC-33

MATERIAL CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
9	Kind	Amount		
JR	TOUR 1			RIG SERVICE
1 FT		12:00	12:15	LOST BIT SLOW
7 FT		12:15	2:30	RUN IN D/C & TALLY SAME
0 FT		2:30	3:15	CHANGE HEAD IN #2 PUMP
FT		3:15	4:45	RUN IN D/PIPE & TALLY IN SLOW
FT		4:45	6:45	BREAK CIRC
5 FT		6:45	7:00	REAM 8' TO BTH
FT		7:00	7:15	DRILLING
5 FT		7:15	8:00	
FT	TOUR 2	8:00	1:30	DRAG W/ 35 m
5 FT		1:30	1:45	RIG SER. B.O.P. ✓ BRAKE ✓
FT		1:45	4:00	DRAG W/ 35 m.
8 FT				
0 FT				
8 FT	TOUR 3	4:00	7:15	DRAG 8 3/4 HOLE W/ 35000
FEET	WATER	7:15	7:30	RIG SERVICE CUR.
FEET	3/4" stream	7:30	8:00	SURVEY @ 3285
FEET	9:00-12:00 PM	8:00	12:00	DRAG W/ 35000

CEMENTING, TESTING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

52			
35			
35			
11.4			
72.			
15			
2			
9			
6 1/2			
10			
10			
150			
1 1/4			
3/4			

TOUR REPORT

CONTRACTOR **G.P. Drilling** RIG NO. **14**
 FIELD **Engle Plains** WELL NAME **Y10 33** LSD SEC TWP R40 W
 DRILLING DEEPENING COMPLETING **N66°12'W187°22'**
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **Dec. 29/71** 19

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	DP	NO	264609	FT	NO 78	264609	FT	NO	264609	FT
SINGLE	DP	NO		FT	NO 1	3131	FT	NO	3131	FT
X OVER SUB	OD		300	FT		300	FT		300	FT
OTHER	OD			FT	MAGNET	354	FT	STA#	435	FT
DRILL COLLARS	OD			FT		49625	FT			FT
DRILL COLLARS	7 OD	NO	49625	FT	NO		FT	NO 16	49625	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
TEST TOOLS			7805	FT			FT			FT
TOTAL D.P. & TOOLS			321439	FT		318119	FT		318200	FT
KELLY DOWN (BELOW R.B.)				FT		3281	FT		4000	FT
DEPTH OF TOOLS			321439	FT		321400	FT		322100	FT

TOUR	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
		3214				3214				3221		

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN		TOTAL HOURS	FROM	TO	RECOVERY
				1/2	3/4				
16	8 3/4	63949	SIMITH SOG-H	3/4	1/2	3214	3221	7	5-1-1

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	G. FRASER	K. CHRISTENSEN	Ed TIRAVICHER
DERRICKMAN	G. FRASER		G. FRASER
HELPER	K. SHIELDS		D COLLINS
HELPER	B. BOICE		R. KYLE
HELPER	J. MAJORS		I. NICHOLSON
FIREMAN			
TOOL PUSHER			

CHURON
 Kind
 TOUR 1
 TOUR 2
 TOUR 3
 DST #
 Testing
 Ran d
 pump
 Choke s
 Pump on
 Pre flow
 KU at
 Good in
 TO faint
 Recover
 Mud wt.
 CI cont
 IHP 190
 FSI P 21
 BHT 20
 Hammer
 junk su
 HIT iron
 X ten Stobo

CHEVRON SOBC 214 PARKIN YTC-38

MATERIALS AND CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
9	Kind	Amount	12:00	Check 4 drills, pipe ram's motor, shut off
JR	TOU-1			Check flow line, hook up kill line
9	FT		12:30	hook up WATER TO MOTOR EXHAUST
1	FT		12:45	Rig SERVICE
1	FT		12:45	FINISH TRIP IN WTEST #4 (100)
5	FT		1:30	HEAD UP TEST #4
5	FT		2:00	TESTING
5	FT		7:15	BRACKS - SS TESTING HEAD
5	FT		7:30	HOIST TEST #4
5	FT		8:00	HOIST D.S.T. #4
5	FT		8:30	RECOVER CHARTS, BREAK DOWN TOOL
5	FT		11:30	SERVICE SALLIE
5	FT		11:30	HR SERV. CHOSE BLIND RAMS CHECK
5	FT		12:00	PIPE RAMS
0	FT		1:30	MAKE UP MAGNET RUN IN SAME SHOW
0	FT		3:00	BREAK CIRC CLEAN TO BTM
0	FT		4:00	WORKING MAGNET
0	FT		6:15	SHOW KELLY & HOIST
0	FT		6:30	HOIST MAGNET CHAIN OUT CLEAN SAME
0	FT		6:30	RIG SERV BLIND RAMS
0	FT		7:45	WORK ON PUMP CHUTE. LOOK FOR
0	FT		7:45	FOR JUNK SUB.
0	FT		9:15	RUN IN V.I. BIT
0	FT		10:00	BREAK CIRC CLEAN TO BTM
0	FT		12:00	DRILL ON (ROW)

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

DST #4 Interval 3180 - 3214
 Testing Company - Johnson Testers. Operator J Falk
 Ran dual anchor - 7 3/4" rubbers, safety joint, hydraulic gas pump out sub in pipe chamber
 Choke size - 1/2" Tail pipe 34' Perforations 26'
 Pump out sub 90' above Tool
 Pre flow 5 min. Initial shut in at 2 25/32 am for 45 min
 VU at 3 10/32 am for 90 min. Final shut in at 4 10/32 am for 15 min
 Good initial pull. fair air blow to seat in 15 min decreasing to faint intermittent after 60 min.
 Recovered 50' of drilling mud.
 Mud wt. before test 11.2 Mud wt recovered on test 11.2
 Cl content mud before test 200 ppm Cl content mud recovered on test 200 ppm
 IHP 1907 FHP 1907 ISIP 59 in 45 min. IIP 20/ FHP 20
 FSIP 214 incomplete in 150 min -
 BHT 80°F.
 Hammer dropped down hole while breaking down test. Made junk sub run - nothing retrieved. Ran in with tooth bit hit iron - torque & once then smoothed out - drilled 7'

Xten Stabilizer #82316 - 2 hrs Cumulative 69 1/2 hrs.

L. F. Gumbel
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilg.* RIG NO *14.*

FIELD *Eagle Plains.* WELL NAME *YU-C-33*

USD *66°12'N* SEC *137°22'W.*

[] DRILLING [] DEEPENING [] COMPLETING

DATE *Dec 28*

[] REDRILLING [] ABANDONING [] REWORKING

1971

Chevron S
MUD CHEMICALS

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO	<i>255213</i> FT	NO	<i>264609</i> FT	NO	
SINGLE	D.P.	NO	<i>6353</i> FT	NO	<i>3131</i> FT	NO	
X OVER SUB	O.D.		<i>300</i> FT		<i>300</i> FT		
OTHER	O.D.						
DRILL COLLARS	O.D.		<i>49625</i> FT		<i>49625</i> FT		
DRILL COLLARS	J.D.	NO		NO		NO	
REAMER	O.D.	KIND		KIND		KIND	
STABILIZER	O.D.	KIND	<i>435</i> FT	KIND	<i>435</i> FT	KIND	
JARS		KIND		KIND		KIND	
BUMPER SUB		KIND		KIND		KIND	
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS			<i>311926</i> FT		<i>318100</i> FT		
KELLY DOWN BELOW R.B.			<i>3426</i> FT		<i>3326</i> FT		
DEPTH OF TOOLS			<i>315752</i> FT		<i>321426</i> FT		

Coal Caustic

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>3153</i> FEET	<i>3214</i> FEET	
DEPTH START OF TOUR	<i>3079</i> FEET	<i>3153</i> FEET	<i>3214</i> FEET
FOOTAGE DRILLED	<i>74</i> FEET	<i>61</i> 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
PUMP	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</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>
WEIGHT ON BIT	<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	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>	<i>11.2</i>
VISCOSITY	<i>70</i>	<i>70</i>	<i>80</i>	<i>84</i>	<i>75</i>	<i>78</i>	<i>78</i>	<i>78</i>
WL F C								
pH								
MUD LEVEL IN TANKS								

TRIP

*New K
Old K
DIS*

NO.	SIZE	SERIAL	BIT KIND AND TYPE	RETRIEVED	RETRIEVED	RETRIEVED	RETRIEVED	RETRIEVED
<i>11</i>	<i>8 3/4</i>	<i>GH904</i>	<i>ReRun #11</i>	<i>35S</i>	<i>3-10</i>	<i>30 1/4</i>	<i>2937</i>	<i>3214</i>

*Retriever
Ambie
Alcohol*

CORE	No.	No.	DST No.	GRAV	GRAV	GRAV	GRAV	GRAV
TYPE			PREFLOW					
FROM			EST					
TO			V.O.					
RECOVERY			RECOVERY					
HOURS								

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>G.H. Sodergren.</i>	<i>G. FRASER</i>	<i>K. CHRISTENSEN</i>
DERRICKMAN	<i>J. Pedersen</i>	<i>K. FRASER</i>	<i>P. JONES</i>
HELPER	<i>R. Rogers.</i>	<i>K. SHIELDS</i>	<i>B. HABERER</i>
HELPER	<i>N. Yashuk.</i>	<i>B. BOYCE</i>	<i>D. FINLAY</i>
HELPER	<i>J. Fulk.</i>	<i>J. MARIK</i>	<i>R. KYLE</i>
FIREMAN			
TOOL PUSHER	<i>W.P. Phast...</i>		

Christensen

Chevron SOBE WM Parkin.

OTHER HOURLY OPERATING DETAIL WORK DONE

MUD & CHEMICALS ADDED		From	To	
1971	Kind	Amount		
DUR	TOUR	12 ⁰⁰	12 ¹⁵	Drlg.
FT		12 ¹⁵	12 ³⁰	Rig Service Ch.B.O.P.'s Change Lub Pump D-Works.
FT	Coal	8 ⁰⁰	12 ³⁰	Drlg.
FT	Caustic	50	1 ³⁰	Survey 78° 3095'
FT		2 ⁰⁰	8 ⁰⁰	Drlg.
FT				
FT				
FT	TOUR 2	8 ⁰⁰	8 ³⁰	Rig Ser. Hydrill. pipe Rams, MOTOR SHUT OFF (etc.)
FT		8 ³⁰	9 ⁰⁰	Drilling
FT		9 ⁰⁰	9 ⁴⁵	Circ up Sample
FT		9 ⁴⁵	10 ⁰⁰	Survey @ 3214
FT		10 ⁰⁰	11 ⁰⁰	Hoist B.T #14 @ 3214
FT				
FT				
FT	TOUR 3	4 ⁰⁰	5 ¹⁵	HOISTING
FT		5 ¹⁵	5 ³⁰	R.G. SERVICE & CLOSE BLIND RAMS
FEET		5 ³⁰	8 ³⁰	SLIP & CUT D-LINE CHANGE KELLY
FEET		8 ³⁰	10 ¹⁰	MAKE UP D.S.T. 4"
FEET		10 ¹⁰	12 ⁰⁰	RUN IN SHOW
HOURS				
12:00 P.M.				

CEMENTING TESTING LIFTING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

New Kelly - 41.40
 Old Kelly - 40.26
 DIFF - 1.14 CORRECT. MADE.

Refrigeration Conductor B61
 Ambient Temperature +14°F
 Alcohol returns +28°F

3
10
5 1/2
9.7
10
20
15.0

3 3/4
7 1/2
1 1/4

Christensen Stabilizer 82316 - 12 3/4 hours Cumulative hrs 79 1/4

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Orlg.* RIG NO *14*

FIELD *Eagle Plains*, WELL NAME

DRILLING DEEPENING COMPLETING *66°12'N. 137°22'W. Dec 27 1971*
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

Chevron
MUD CHEMICAL Kind

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	D P	NO <i>25</i>	<i>236</i>	<i>506</i>	NO <i>26</i>	<i>2460</i>	<i>40</i>	NO <i>27</i>	<i>255</i>	<i>213</i>
SINGLE	D P	NO <i>2</i>		<i>6362</i>	NO <i>1</i>	<i>2975</i>				
X OVER SUB	O D			<i>300</i>		<i>300</i>				<i>300</i>
OTHER	O D							<i>49625</i>	<i>49625</i>	
DRILL COLLARS	<i>7" O D</i>	<i>16</i>		<i>49625</i>		<i>49625</i>				
DRILL COLLARS	O D	NO			NO			NO		
REAMER	O D	KIND			KIND			KIND		
STABILIZER	<i>Ser # 82316</i>	KIND		<i>435</i>	KIND	<i>435</i>		KIND		<i>435</i>
JARS										
BUMPER SUB		KIND			KIND			KIND		
BIT OR CORE BARREL										
TOTAL D P & TOOLS			<i>293228</i>			<i>299376</i>			<i>305573</i>	
KELLY DOWN (BELOW R B)			<i>3000</i>			<i>24</i>			<i>2400</i>	
DEPTH OF TOOLS			<i>296228</i>			<i>301976</i>			<i>307973</i>	
TOUR		MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR		
DEPTH END OF TOUR			<i>2962</i>	FEET		<i>3019</i>	FEET		<i>3079</i>	FEET
DEPTH START OF TOUR			<i>2937</i>	FEET		<i>2962</i>	FEET		<i>2962</i>	FEET
FOOTAGE DRILLED			<i>25</i>	FEET		<i>57</i>	FEET		<i>60</i>	FEET

TOUR
TOUR 2
TOUR 3
CEL
2161AM W.

	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			<i>1750</i>	<i>1750</i>	<i>54</i>	<i>1500</i>	<i>54</i>	<i>1500</i>	<i>56</i>	<i>1750</i>	<i>56</i>	<i>1750</i>
ROTARY SPEED		<i>55</i>	<i>55</i>	<i>55</i>	<i>54</i>	<i>54</i>	<i>54</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>
WEIGHT ON BIT		<i>25</i>	<i>30</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		<i>11.2</i>	<i>11.2</i>	<i>11.2</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>	<i>11.2</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>
VISCOSITY		<i>80</i>	<i>70</i>	<i>62</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>79</i>	<i>76</i>	<i>70</i>	<i>78</i>	<i>78</i>
W. L. F. C.								<i>5.7</i>	<i>4.2</i>			<i>5.7</i>
pH												
MUD LEVEL IN TANKS												

NO	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN INCH	TOOL JOINTS	THROW
<i>15</i>						
<i>8234</i>		<i>GH904</i>	<i>Reamer #11</i>	<i>355</i>	<i>3-10</i>	<i>2937</i>

CORE No	No	Dist No	FROM	MUD ENGINEER'S REPORT
TYPE				<i>6.15</i>
FROM				<i>11.2</i>
TO				<i>63</i>
Recovery				<i>40</i>
HOURS				<i>30</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>G.H. Sodergren</i>	<i>A. FRASK</i>	<i>K. CHRISTENSEN</i>
DERRICKMAN	<i>J. Pedersen</i>	<i>K. FRASK</i>	<i>P. JONES</i>
HELPER	<i>R. Rogers</i>	<i>K. SHIELDS</i>	<i>G. HABERER</i>
HELPER	<i>N. Yashuk</i>	<i>B. BOICE</i>	<i>W. FINNAS</i>
HELPER		<i>J. MARYK</i>	<i>B. FINNAS</i>
FIREMAN			
TOOL PUSHER			

Retrieger
Ambient
Christens

Chevron SOBC W.M. Parkin YTC-33.

1971		MATERIALS CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
OUR	FT	Kind	Amount			
		TOUR 1		12 ⁰⁰	1 ³⁰	Hook Up Flow Line-Dr. Hing Nipple
13	FT			1 ³⁰	1 ⁴⁵	Mud Saver Pan.
00	FT			1 ⁴⁵	3 ¹⁵	Rig Service Ch. B.O.P.'s
25	FT			3 ¹⁵	3 ⁴⁵	Run In w/Bit #
	FT			3 ⁴⁵	4 ¹⁵	Break Circ Clean 10' To Bottom.
	FT			4 ¹⁵	4 ⁴⁵	Drlg.
	FT			4 ⁴⁵	8 ⁰⁰	Strighzen + Tighten #1 Pump Belts.
	FT					Drlg.
	FT	TOUR 2				
35	FT			8 ⁰⁰	9 ⁰⁰	Drilling
	FT	GEL # 600		9 ⁰⁰	9 ¹⁵	Rig Serv. Check Bops, Motor shut off.
	FT	CAUSTIC # 50		9 ¹⁵	11 ⁰⁰	Drilling
	FT					B.O.P's, Motor shut off ch.
73	FT					
00	FT					
73	FT	TOUR 3		4 ⁰⁰	5 ⁰⁰	DRLG. w/35 m.
	FEET	GEL 600 #		5 ⁰⁰	5 ⁴⁵	SURVEY @ 3030 W RIG. SER.
	FEET	W STREAM WARE		5 ⁴⁵	9 ⁴⁵	DRLG. w/35 m.
	FEET			9 ⁴⁵	10 ⁰⁰	CHANGE GLAND PACKING C:350 O.P.S.
	HOURS			10 ⁰⁰	10 ³⁰	DRLG w/35 m
	3:30 P.M.			10 ³⁰	11 ³⁰	CHANGE LUB Pump Compound Work
56						ON AIR LINES.
1750				11 ³⁰	12 ⁰⁰	DRLG. w/35 m.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

55
35
11.3
78
5.7 3/4

REPORT

0.25
2
G 8
58
95
10
30
152

Refrigeration Condenser B.G.L.
Ambient Temp +15°F. Alcohol Returns +25°F.

Christensen Stabilizer # 82316 - 17 1/2 hrs Cumulative 67 1/2 hrs

J. F. Gumbelly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *Kyle Plains* WELL NAME *N 66° 12'*

CONTRACTOR *GP* RIG NO. *14*
 USD *W* SEC *137°* TWP *22'*

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *Dec 26* 197*1*

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS L.P.	NO <i>25</i> 236506 FT	NO	NO <i>25</i>
SINGLE D.P.	NO	NO	NO <i>1</i> 239480
X OVER SUB O.D.	300 FT		300
OTHER O.D.			
DRILL COLLARS O.D.	<i>16</i> 49625 FT		49625
DRILL COLLARS O.D.	NO	NO	
REAMER O.D.	KIND	KIND	
STABILIZER O.D.	KIND	KIND	435
JARS <i>Stabing Valve</i>	<i>236</i> FT		
BUMPER SUB <i>D.S.T.</i>	<i>7795</i> FT		
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	<i>294462</i> FT		289840
KELLY DOWN (BELOW R.B.) <i>SLICK UP</i>	<i>712</i> FT		3860
DEPTH OF TOOLS	<i>293750</i> FT		293700
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>2937</i> FEET		
DEPTH START OF TOUR	<i>2937</i> FEET		<i>2937</i>
FOOTAGE DRILLED	<i>0</i> 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

PUMP	S.P.M. / P.S.	
ROTARY SPEED	R.P.M.	
WEIGHT ON BIT	M. lbs.	
MUD WEIGHT	lb/gal	<i>Testing</i>
VISCOSITY	sec qt	
W.L.F.C.	at 32nd	
pH		
MUD LEVEL IN TANKS	Ft. m.	

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET DOWN	WELL	DEPTH	RECORD NO.	NEEDED	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>G.H. Sodargren</i>	<i>C Fraser</i>	<i>K CHRISTENSEN</i>
DERRICKMAN	<i>J. Pedersen</i>	<i>K Fraser</i>	<i>P JONES</i> Torco 2937 1/2"
HELPER	<i>R. Rogers</i>	<i>Shiell</i>	<i>G HAGERER</i>
HELPER	<i>N. Yastuk</i>	<i>B Boice</i>	<i>W FINNAN</i>
HELPER	<i>B. Finlay</i>	<i>J Murple</i>	<i>B FINNAN</i>
FIREMAN	<i>J. Marple</i>		
TOOL PUSHER	<i>CK Marple</i>		

DST #2
Testing
Ran d
pump
Choke s
Pump ou
Pre flow
VO a
for 240
Good a
7 min T
died fo
Recover
water
Pulled
and va
at 1/2 S
hand w
CI cont
CI cont
1HP 173
FSIP 125
Charts

Chevron SOBCL WM W PARKIN VT C-33

MUD and CHEMICALS ADDED		Firm	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
1971				
0 FT	TOUR 1	12:00	12:30	Hoisting To Run D.S.T. Pick Up Packer & Make Up Same. Run In w/D.S.T. (Slow Dual Packers) Head up Tester & Testing. Ch. B.O.P's - Rig Savers.
0 FT		12:30	2:00	
5 FT		2:00	4:00	
5 FT		4:00	8:00	
0 FT	TOUR 2	8:00	11:45	Testing Hoist Test - slow - with plugs Head up and pump out test Hoist Test
5 FT		11:45	2:45	
0 FT		2:45	3:15	
0 FT		3:15	4:00	
0 FT	TOUR 3	4:00		Hoist D.S.T. RECOVER CHARTS. BREAK DOWN TOOL SERVICE SAME & LAD DOWN RIG SERVICE & CHOSE BLIND RAIN CHANGE HYDRIN RUBBER. PRESSURE TEST B.O.P. - 1000 psi HOOKING UP FLOWLINE.
FEET		8:15	8:15	
FEET		8:30	8:30	
FEET		8:30	11:00	
HOURS		11:00	11:30	
12:30 PM		11:30	12:00	

CEMENTING TESTING FINISHING - SPECIAL JOB DETAILS INCLUDING ENGINEERING - UMMARIS +18°F

DST #3 Interval 2871 - 2837 - Chance Formation
 Testing Company Johnson Testers Operator J Falk
 Ran dual anchor - 7 3/4 rubbers, safety joint, Lee Iars
 pumpout sub & mpe chamber
 Choke size - 1/2" Tail pipe 66' Perforations 26'
 Pump out sub 90' above Tool
 Preflow 5 min Initial shut in at 5:00 am for 45 min
 V.O. at 5:45 am for 120 min Final shut in at 7:45 am
 for 240 min.
 Good air blow on preflow Good air blow on V.O. BTS in
 7 min TSTM. Faint steady gas blow for 70 min then
 died for remainder of test.
 Recovered 60' of drilling mud, 2740' sulfurous brackish
 water
 Pulled 11 stands (1030') then activated pump out sub
 and reversed out remainder of fluid. Definite traces
 of H₂S in gas pockets of recovered fluid
 mud wt before test 11.3 Mud wt recovered on test 9.0
 Cl content mud before test 400 Cl content mud recovered 1100
 Cl content water recovered 1100 ppm
 IHP 1732 FHP 1672 IAP 797 FHP 1254 IAP 1252
 FSIP 1252 in 240 min complete BHT 96°F
 Charts O.K. Test Satisfactory

[Signature]
 SIGNATURE COMPANY ENGINEER

STANDS	D.P.	NO.	FT.	NO.	FT.	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.	NO.	FT.	NO.	FT.
X OVER SUB	OD		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
OTHER	OD		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
DRILL COLLARS	OD		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
DRILL COLLARS	OD		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
REAMER	OD		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
STABILIZER	OD		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
JARS	KIND		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
BUMPER SUB	KIND		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
BIT OR CORE BARREL	FT		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
TOTAL D.P. & TOOLS	FT		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
KELLY DOWN (BELOW R.B.)	FT		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
DEPTH OF TOOLS	FT		FT.		FT.		FT.		FT.		FT.		FT.		FT.		FT.
TOUR																	
DEPTH END OF TOUR	FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
DEPTH START OF TOUR	FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
FOOTAGE DRILLED	FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
DAY WORK	HOURS		HOURS		HOURS		HOURS		HOURS		HOURS		HOURS		HOURS		HOURS
PUMP	S.D.M. D.S.T.		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
ROTARY SPEED	R.P.M.		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
WEIGHT ON BIT	M.lbs		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
MUD WEIGHT	lb/gal		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
VISCOSITY	sec/st		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
W.L.F.C.	cc/32nd		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
P.H.			FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
MUD LEVEL IN TANKS	FT-IN		FEET		FEET		FEET		FEET		FEET		FEET		FEET		FEET
NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET SIZES IN 1/2" HOLES	TOTAL HOURS	FROM	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
13	8 3/4	PT8345	STAG-J Ract	3/0 1/4	1 1/2	28977	2937	60	4	6-1-1							

SIGNATURES: *C.H. Sodergran*, *E. THASTEN*, *K. CHRISTENSEN*
 DRILLER: *C.H. Sodergran*, *E. THASTEN*, *K. CHRISTENSEN*
 MORNIG TOUR: *C.H. Sodergran*, *E. THASTEN*
 DAYLIGHT TOUR: *E. THASTEN*
 AFTERNOON TOUR: *K. CHRISTENSEN*

MUD ENGINEER'S REPORT
 Time: 7:30 AM
 W.L.F.C.: 11.3
 Visc: 78
 AV: 48
 PV: 36
 YP: 24
 Solids: 10
 GA. p.p.m.: 30
 CL. p.p.m.: 400

Cementing Testin
 Reformation Cor
 Ambient Tem
 Alcohol Return

TOUR 3
 GRU
 500
 400
 930
 1030
 1040

TOUR 2
 8
 12
 12

TOUR 1
 515
 611
 641
 8

Chevron SOBC WM Parkin. YT C-33

MATERIALS CHEMICALS ADDED		OTHER HOURLY OPERATING DETAIL WORK DONE	
1971	Kind	Amount	From To
OUR	TOUR		
06 FT			12:00 12:15
73 FT			12:15 2:15
00 FT			2:15
FT			5:15 5:15
25 FT			6:15 6:15
FT			6:45 6:45
FT			6:45 8:00
FT	TOUR 2		
35 FT			8:00 12:00
FT			12:00 12:15
FT			12:15 14:00
49 FT			
00 FT			
49 FT	TOUR 3		
R	GRN	500*	4:00 9:30
FEET			9:30 10:30
FEET			10:30 10:45
FEET			10:45 12:00

Rig Service. B.O.P.
 Hoisting Core #3.
 Recovered 60' Core Service Bbl.
 Change Bearing Core Bbl. Swivel.
 Sand Core Bbl. In Derrick.
 Run In 4" Bit To Ream Rat Hole.
 Pick Up Kelly Break Circ.
 Reaming Rat Hole From 2877.
 REAM RAT HOLE
 Rig SERVICE & B.O.P.S
 REAM RAT HOLE
 BEAMED TO 2922.
 REAMING RAT HOLE
 CIRC TO TEST
 DROP SURVEY, SHOW KEYS RIG SER.
 HOIST MEASURE.

Refrigeration Conductor Barrel
 Ambient Temp +16°F
 Alcohol Returns +20°F

35
 3
 4
 6 1/2
 10 0
 10
 30
 400
 1/2 0
 1/2

E. F. Linnately
 MINATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. D-1g.* REG NO *14.*

Chevron

FIELD *Egel Plains* WELL NAME

LSD SEC TWP

[] DRILLING [] DEEPENING [] COMPLETING *66°12'N 137°22'W*

[] REDRILLING [] ABANDONING [] REWORKING TOUR 24 HOURS ENDING 23 MIDNIGHT *Dec 24 1971*

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO <i>24</i>	<i>227007</i> FT	NO	<i>226925</i> FT	NO <i>24</i>	<i>226925</i> FT	
SINGLE	D.P. NO <i>1</i>	<i>3178</i> FT	NO	<i>3178</i> FT	NO <i>2</i>	<i>6318</i> FT	
X OVER SUB	O.D.	<i>300</i> FT		<i>300</i> FT		<i>300</i> FT	
<i>X.O.</i>	O.D.	<i>189</i> FT		<i>189</i> FT		<i>189</i> FT	
DRILL COLLARS	<i>7</i> O.D. <i>16</i>	<i>49625</i> FT		<i>49628</i> FT		<i>49625</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	<i>667</i> FT	KIND	<i>667</i> FT	KIND	<i>667</i> FT	
BUMPER SUB	KIND	FT	KIND	FT	KIND	FT	
BIT OR CORE BARREL		<i>6458</i> FT		<i>6458</i> FT		<i>6458</i> FT	
TOTAL D.P. & TOOLS		<i>287424</i> FT		<i>287343</i> FT		<i>290482</i> FT	
KELLY DOWN BELOW R.R.		<i>1686</i> FT		<i>4026</i> FT		<i>3208</i> FT	
DEPTH OF TOOLS		<i>289110</i> FT		<i>291369</i> FT		<i>293690</i> FT	

TOUR 1
TOUR 2
TOUR 3
Get # Caustic # Nitrate #

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>2891</i> FEET	<i>2913</i> FEET	<i>2937</i> FEET
DEPTH START OF TOUR	<i>2877</i> FEET	<i>2891</i> FEET	<i>2913</i> FEET
FOOTAGE DRILLED	<i>14</i> FEET	<i>22</i> FEET	<i>24</i> FEET

	DAY WORK											
	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	<i>800</i>	<i>42</i>	<i>42</i>	<i>800</i>	<i>42</i>	<i>800</i>	<i>42</i>	<i>800</i>	<i>42</i>	<i>800</i>	<i>42</i>	<i>800</i>
ROTARY SPEED	<i>68</i>	<i>68</i>	<i>68</i>	<i>68</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>	<i>80</i>
WEIGHT ON BIT	<i>8-10</i>	<i>8-10</i>	<i>8-10</i>	<i>8-10</i>	<i>11</i>	<i>11</i>	<i>11</i>	<i>11</i>	<i>11</i>	<i>11</i>	<i>11</i>	<i>11</i>
MUD WEIGHT	<i>11.2</i>	<i>11.2</i>	<i>11.1</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>	<i>11.2</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>	<i>11.3</i>
VISCOSITY	<i>66</i>	<i>64</i>	<i>58</i>	<i>58</i>	<i>58</i>	<i>68</i>	<i>68</i>	<i>72</i>	<i>74</i>	<i>73</i>	<i>73</i>	<i>73</i>
W.L.F.C.								<i>5.6</i>	<i>5.6</i>	<i>5.6</i>	<i>5.6</i>	<i>5.6</i>

pH
MUD LEVEL IN TANKS

NO.	SIZE	SERIAL	BIT KIND	TYPE	DEPTH	HR	BIT CHANGE ON
<i>12</i>	<i>6 3/4</i>	<i>71AHR</i>	<i>◇</i>	<i>R.R.</i>	<i>2112</i>	<i>2877</i>	<i>2937</i>

CORE NO.	NO.	DEPTH	TYPE	PRE-FLOW	FROM	TO	RECOVERY	HOURS

SIGNAL	RES.	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER		<i>G.H. Sodergren</i>	<i>G. FRASER</i>	<i>K. KRISTENSEN</i>
DEPT. KEEN		<i>J. Pedersen</i>	<i>K. FRASER</i>	<i>P. JONES</i>
HELPER		<i>R. Rogers</i>	<i>K. SHIELDS</i>	<i>G. MADDERER</i>
HELPER		<i>N. Yashuk</i>	<i>B. BOICE</i>	<i>W. FINKAS</i>
HELPER		<i>J. Fulk</i>	<i>J. MARPIE</i>	<i>B. FINKAS</i>
FIREMAN				
TOOL PUSHER				

Chevron SOBC WM Parkin.

OTHER HOURLY OPERATING DETAIL WORK DONE

1971	MATERIALS AND CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
	Kind	Amount			
01	TOUR 1		12:00	1:00	Finish Ch. B.O.P. Valves.
25	FT				Prepare To Run In w/ Core Bbl.
18	FT		1:00	2:00	Run In w/ Core Bbl. (Slow)
00	FT				Blow Kelly-Break Circ.
89	FT		2:00	2:30	Clean 20' To Bottom. Core Bbl. (15 min)
25	FT		2:30	8:00	Cutting Core #3.
67	FT				
58	FT				
82	FT				
08	FT				
70	FT				
01	TOUR 2				
		GEN #	6:00	8:00	CUTTING CORE #3.
		CAUSTIC #	50		
		NITRATE #	25		
42	FT				
90	FT				
70	FT				
11	FT				
11.3	FT				
73	FT				
5.9	FT				
3/32	FT				
25	FT				
2	FT				
7	FT				
4 1/2	FT				
9.5	FT				
10	FT				
90	FT				
900	FT				
1/3	FT				

CEMENTING OPERATIONS - SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Cut core #3 2877-2937 rel 60 feet.

Conductor bbl rehydration: Ambient Temp -10° E
Alcohol returns + 9° F.

W. H. Stanley
QUALITY CONTROL

TOUR REPORT

CONTRACTOR *G.P. Drig* RIG NO. *14.*

Chevron

FIELD *Eagle Plains* WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

N 66° 12' W 137° 22'

Dec 23

1971

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO. <i>24</i>	<i>2270</i>	<i>07</i> FT	NO. <i>25</i>	<i>2365</i>	<i>06</i>	<i>06</i>
SINGLE	D.P. NO. <i>2</i>	<i>63</i>	<i>18</i> FT				
X OVER SUB	O.D.	<i>300</i>	FT	<i>300</i>		<i>300</i>	
OTHER	O.D.		FT				
DRILL COLLARS	O.D.	<i>496</i>	<i>25</i> FT	<i>496</i>	<i>25</i>	<i>496</i>	<i>25</i>
DRILL COLLARS	O.D.		FT				
REAMER	O.D.		FT				
STABILIZER	O.D.	<i>460</i>	FT	<i>460</i>		<i>460</i>	
JARS	KIND		FT				
BUMPER SUB	KIND		FT				
BIT OR CORE BARREL			FT				
TOTAL D.P. & TOOLS		<i>2837</i>	<i>10</i> FT	<i>2868</i>	<i>91</i>	<i>2868</i>	<i>91</i>
KELLY DOWN BELOW R.B.		<i>2300</i>	FT	<i>826</i>		<i>826</i>	
DEPTH OF TOOLS		<i>2860</i>	<i>10</i> FT	<i>2877</i>	<i>17</i>	<i>2877</i>	<i>17</i>
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		<i>2860</i>	FEET	<i>2877</i>	FEET	<i>2877</i>	FEET
DEPTH START OF TOUR		<i>2787</i>	FEET	<i>2860</i>	FEET		FEET
FOOTAGE DRILLED		<i>73</i>	FEET	<i>17</i>	FEET		FEET

TOUR
Water
Acoustic
WATER

DAY WORK	HOURS					TOTAL HOURS
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	
PUMP	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</i>	<i>56</i>	<i>280</i>
ROTARY SPEED	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	<i>55</i>	
WEIGHT ON BIT	<i>35m</i>	<i>35m</i>	<i>35m</i>	<i>35m</i>	<i>35</i>	
MUD WEIGHT	<i>11.4</i>	<i>11.4</i>	<i>11.4</i>	<i>11.4</i>	<i>11.3</i>	
VISCOSITY	<i>74</i>	<i>74</i>	<i>76</i>	<i>80</i>	<i>74</i>	
W.L.F.C.						
pH						
MUD LEVEL IN TANKS						

Double
Get hydraulic
pressure
could
and
che

NO.	SIZE	SERIAL	BIT KIND	NO.	FEET	TOUR
<i>11</i>	<i>8 3/4</i>	<i>GH904</i>	<i>35S</i>	<i>2-10</i>	<i>22 1/2</i>	<i>2605-2877-272</i>

CORE NO.	NO.	DIST. NO.	PRE-FLOW	RECOVERY	HOURS
					<i>32</i>

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>G.H. Sodergren</i>	<i>G. FRASER</i>	<i>K. KRISTENSEN</i>
DERRICKMAN	<i>J. Pedersen</i>	<i>K. FRASER</i>	<i>P. JONES</i>
HELPER	<i>R. Rogers</i>	<i>K. SHIELDS</i>	<i>E. HADENK</i>
HELPER	<i>N. Yashuk</i>	<i>B. BOICE</i>	<i>W. FINNAN</i>
HELPER	<i>W. Finlay</i>	<i>J. MURPHY</i>	<i>B. FINNAN</i>
FIREFMAN	<i>B. Finlay</i>		
TRAIL PUSHER	<i>W. Finlay</i>		

6 1/2
11.4
80
55
39
32
0.54
11
6 1/2
85
11
30
400

Double
recovery
11.4

Chevron S.O.B.C. W.M. Parkin YTC-33.

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971	Kind	Amount		
0 FT	TOUR		12 ⁰⁰	Drlg. 35 m.
6 FT	Water	1/4 Stn	12 ³⁰	Survey 2813' 1/2"
			2 ³⁰	Rig Service Ch. B.O.P.'s
			3 ⁰⁰	Drlg. 35 m.
			3 ¹⁵	
0 FT			7 ⁰⁰	
5 FT			6 ⁰⁰	Drilling
			9 ⁰⁰	Pro Ser Check Blow Out Equipment
			9 ¹⁵	Plac Sample Q2876
0 FT	TOUR 2		10 ³⁰	Blow Kelly
			10 ³⁰	Hoist & Double Measure To Core Slow
	Coastic # 100		11 ⁰⁰	Check Blind Ram's BOP VALVES
	Water		11 ⁰⁰	Rig up to pressure test Hold.
			12 ⁰⁰	
7 FT	TOUR 3		4 ⁰⁰	PRESSURE TEST B.O.P. TESTING MANIFOLD
			5 ⁰⁰	FLARELINE W/ PRESSURE PLUG 1500 P.S.I
			10 ⁰⁰	PRESSURE PLUG STUCK IN CASING BOWL
				JARING ON SAME
				LAY DOWN PRESSURE PLUG & TARS, HOOK
				UP DRLG NIPPLE & SPRAY TANK, TIGHTENING
				B.O.P. BOLTS & W.K.M. VALVES, CLOSE
			12 ⁰⁰	BLIND RAMS.

CEMENTING, TIGHTENING, FINISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Double Tally: 130 acre Tally 290871
 SLM 290833
 Diff 0.36 - No Corrⁿ made

Set pressure plug in casing bowl and pressure tested hydro control valves and flare manifold to 1500 psi for 15 min - no bleed off - check O.K.

Could not get pressure plug to unseat - hooked up gun and jarred loose.
 Checked all bolts & flanges on B.O.P. O.K.

Debit on stream to keep weight down to 111-112

Water column limit - Alcohol returns +10' Ambient Temp - 12°F

X-Ten Stabilizer 28315 714 hrs Cementation 92% hrs

G. T. Jamieson
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. D-19.** WIG NO **14**

FIELD **Eagle Plains.** WELL NAME

ESD SEC TWP

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

N46°12' W 137°22'
 FOR 24 HOURS ENDING 12 MIDNIGHT

Dec 19

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS 22 4 1/2 D.P. NO	208149 FT	217673 FT	227007 FT
SINGLE D.P. NO			
X OVER SUB - O.D.	300 FT	300 FT	300 FT
OTHER O.D.			
DRILL COLLARS O.D.			
DRILL COLLARS 7" O.D. NO 16	49625 FT	49625 FT	49625 FT
REAMER O.D. KIND			
STABILIZER O.D. KIND	460 FT	460 FT	460 FT
JARS			
BUMPER SUR			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	258534 FT	268058 FT	277392 FT
KELLY DOWN (BELOW R.B.)	2026 FT	2026 FT	1308 FT
DEPTH OF TOOLS	260560 FT	270084 FT	278700 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2605 FEET	2700 FEET	2787 FEET
DEPTH START OF TOUR	2590 FEET	2605 FEET	2700 FEET
FOOTAGE DRILLED	15 FEET	95 FEET	87 FEET

DAY WORK	HOURS											
	2:30 AM	4:00 AM	5:30 AM	7:00 AM	8:30 AM	10:00 AM	11:30 AM	1:00 PM	2:30 PM			
PUMP				54	54	54	54	52	54	54	54	54
ROTARY SPEED R.P.M.				56	56	56	56	55	55	55	55	55
WEIGHT ON BIT M lbs				20	20/35	35	35	30	35	35	35	35
MUD WEIGHT lb gal				11.3	11.3	11.3	11.3	11.4	11.3	11.3	11.3	11.3
VISCOSITY sec ft				59	70	70	70	72	71	72	72	71
W.L.F.C. cc 32nd					6.6	5.5	5.5					5.6
p.H.					9.0	9.5	9.5					
MUD LEVEL IN TANKS												

NO.	SIZE	SERIAL	BIT KIND	ACCEL TYPE	DATE	TIME	DEPTH	REMARKS
10	8 3/4	65948			3-10	1934	2317	2605
15	8 3/4	6H904	355		3-10	21-12	2605	

CORE NO.	NO.	DATE	TIME	DEPTH	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	C.H. Sodergran	E. FANSEK	K. CHRISTENSEN
DERICKMAN	J. Pedersen	K. FANSEK	P. JONES LINK 2720 1/2
HELPER	R. Rogers	K. SHIELDS	G. HAAGER
HELPER	N. Yashuk	B. BOICE	W. FINKAS
HELPER	R. Calloux	V. MARPLE	B. FINKAS
FIREMAN			
TOOL PUSHER			

MEXON
 MUD CHEMICAL
 Kind

TOUR 1
 TOUR 2
 TOUR 3

Brady and...
Rig and drill...
Circle...
Tried pump

Christensen

MAXON SOBC WA PARKIN YTC-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

MUD and CHEMICALS ADDED		From	To	
Kind	Amount			
9				
JR	TOUR 1	12:00	12:15	Rig Service, Ch. B.O.P. Rig Savers.
7		12:15	1:05	Delg.
FT		1:15	1:45	Survey
FT		1:45	4:00	Hoisting B.t #4. Swabbing 10 Stds.
0		4:00	5:00	Clean Shale Off Stab + Collar.
FT		5:00	5:15	Ch Survey Change B.t.
FT		5:15		Running In Hit Bridge @ 2310.
5			8:00	BREAK Circ Cleaning To Bottom.
FT	TOUR 2			
0		8:00	8:30	Run in 3 STANDS, CLEAN 6' BTH
FT		8:30	8:45	Rig SERVICE, B.O.P.s, Kelly Cock, Rig SAVERS
FT		8:45	9:00	Drilling
FT		9:00	9:15	Blow Out Drill w/ Beard.
FT		9:15	4:00	Drilling SPLIT MOTORS
2				
8				
0	TOUR 3	4:00	5:30	DRLC w/30 m
FEET		5:30	6:00	CIRC SAMPLE (GEO ORDERS)
FEET		6:00	6:30	SURVEY @ 2720 1/2' RIG SERVICE BOP
FEET		6:30	12:00	DRLC w/35 m

CEMENTING, SEALING, GRouting, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

54
1400
55
35
113
71
56 1/2

Bridge at 2310 running in - put on Kelly and circulated and rotated. 6' fill on bottom.

Rig check by Thomas - Conservation Engineer - B.O.P. drill with crew.

Circulating conductor barrel with alcohol. Returns @ 8'

Tried splitting compound to vary rotating speed and pump pressure. One motor unable to handle pump.

1/2

Christensen Seabulzer "88315" 15 1/2 hours Cumulative 84 1/4 hrs

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD **EAGLE PLAIN** WELL NAME **N66**

CONTRACTOR **C-P** RIG NO **14**
 LSD **12** SEC **0137** TWP **22** R₁₀ W

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

DEC 21

1971

CHE
 MUD CHEMICAL Kind

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR			
STANDS	D.P. NO 19	1799	11 FT	NO 20	1893	00 FT	NO 20	2049	84 FT
SINGLE	D.P. NO 2	620	7 FT		637	0 FT			
X OVER SUB	O.D.	302	FT		302	FT		302	FT
OTHER	O.D.		FT			FT			FT
DRILL COLLARS	7 O.D. 14	496	25 FT		496	25 FT		496	25 FT
DRILL COLLARS	O.D.		FT			FT			FT
REAMER	O.D.		FT			FT			FT
STABILIZER	823.15 O.D. CPD	460	FT		460	FT		460	FT
JARS			FT			FT			FT
BUMPER SUB			FT			FT			FT
BIT OR CORE BARREL			FT			FT			FT
TOTAL D.P. & TOOLS		2365	05 FT		2460	55 FT		2553	71 FT
KELLY DOWN (BELOW R.B.)		17	00 FT		19	45 FT		37	26 FT
DEPTH OF TOOLS		2372	05 FT		2480	00 FT		2590	97 FT

TOUR
 1/2 stream water
 Caustic

TOUR
 Gel
 Wt.
 Caustic

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2372 FEET	2480 FEET	2590 FEET
DEPTH START OF TOUR	2300 FEET	2372 FEET	2480 FEET
FOOTAGE DRILLED	72 FEET	108 FEET	110 FEET

TOUR 1
 Gel

	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	40	54	55	54	54	56	56	56	450	460	460	56
ROTARY SPEED	80	55	55	55	55	56	56	56	56	56	56	56
WEIGHT ON BIT	5-5,000	1800	1800	1800	25m	25m	35m	35m	35	35	35	35
MUD WEIGHT	11.1	11.1	11.1	11.15	10	10	11	11	11.2	11.2	11.3	11.3
VISCOSITY	66	66	66	65	59	58	62	63	60	60	58	58
W.L. F.C.	6.5			9.0								
pH												
MUD LEVEL IN TANKS												

Circle

NO.	SIZE	SERIAL	BIT KIND AND TYPE	ET SIZES	DEPTH	FROM	TO	REMARKS
410	8 3/4	63949	SDGH Smith	3-10	374	2287	2317	Rain 30 12/21/71

CORE	No.	No.	DST	FROM	TO	ADDITIONAL REPORT
TYPE			PREFLOW			7.5 - 0.1
FROM			ISI			11.1 - 10
TO			VO			6.5 - 6.7
Recovery			FSI			3.1 - 9.0
HOURS			RECOVERY			23 - 9.2

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	Ed Krauchuk	G.H. Sodergren	G. FRASER
DERRICKMAN	J. FRASER	J. Pedersen	K. FRASER TOTAL 2374
HELPER	L. CHERNIYESKI	R. Rogers	K. SHIELDS 2432
HELPER	D. Coburns	N. Yashuk	B. BOICK 2518
HELPER	H. BRENNER	R. Colliaux	J. HARRY
FIREMAN			
TOOL PUSHER	Per Hansen		

Christensen

CHEVRON SOBC UNIT PARKIN UT C-33

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1971		1200	215	FINISH RPT. DATE 7/14
TOUR		215	530	DRILL 8 3/4 HOLE
4 FT	fisher water	530	545	RIG SERVICE TO RIG
FT	Caustic	545	715	DRILL
22 FT		715	745	SURVEY 2374.
FT		745	800	DRILL
5 FT				
FT				
TOUR 2		800	945	Drig.
0 FT	Gel	945	1015	Service R.g. Ch. B.O.P. R.g. Savers.
FT	Wt.	1015	1230	Drig.
FT	Caustic	1230	100	SURVEY @ 2432' - 148'
FT		100	400	Drig.
1 FT				
6 FT		400	430	Drilling
7 FT		430	500	RIG SERVICE & Check RIG SERVICES BOP's
TOUR 3		500	700	Drilling
	Gel #	700	745	SURVEY @ 2578 ONE MISS RUN
FEET		745	1200	Drilling
FEET				
FEET				
HOURS				
12:00 PM				

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Circulating conductor pipe with Alcohol
Temperature at returns + 8°F

56/1650
56
35
0.1
3
10
4 3/4
90
94
650
1 1/2
1 1/2
7/8

Christensen Sub # 82315-

18 3/4 hrs. Cumulative

69 3/4 hrs.

H. F. Gumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *FIF*

RIG NO *1-1*

FIELD *EAGLE PLAIN* WELL NAME *N66*

LSD *12* SEC

TWP *U137* Rpt

W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

DEC 20 1971

CHEM

MUD CHEM

Kind

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO. <i>18</i>	<i>170385</i> FT	<i>170385</i> FT	<i>170385</i> FT
SINGLE D.P. NO.			<i>6350</i> FT
X-OVER SUB <i>7</i> O.D.	<i>302</i> FT	<i>302</i> FT	<i>302</i> FT
OTHER O.D.			
DRILL COLLARS O.D. <i>16</i>			
DRILL COLLARS O.D. NO.	<i>49625</i> FT	<i>49625</i> FT	<i>49625</i> FT
REAMER O.D. KIND			
STABILIZER <i>82315</i> O.D. <i>Uno.</i>			<i>460</i> FT
JARS - SUBS <i>C.B.</i> KIND	<i>7314</i> FT	<i>7314</i> FT	
BUMPER SUB KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	<i>227626</i> FT	<i>227626</i> FT	<i>227122</i> FT
KELLY DOWN (BELOW R.B.)	<i>2310</i> FT	<i>4035</i> FT	<i>3135</i> FT
DEPTH OF TOOLS	<i>229926</i> FT	<i>231661</i> FT	<i>230257</i> FT

TOUR

TOUR 2
Caustic

TOUR 3

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>2299</i> FEET	<i>2316</i> FEET	<i>2302</i> FEET
DEPTH START OF TOUR	<i>2287</i> FEET	<i>2299</i> FEET	<i>2287</i> FEET
FOOTAGE DRILLED	<i>12</i> FEET	<i>18</i> FEET	<i>ARMED 15</i> FEET

	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
PUMP S.D.M. P.S.	<i>44 750</i>	<i>44 750</i>	<i>44 750</i>	<i>44 750</i>	<i>42 750</i>	<i>42 750</i>	<i>43 750</i>	<i>43 750</i>				<i>40 1000</i>
ROTARY SPEED R.P.M.	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>				<i>80/85</i>
WEIGHT ON BIT M.lbs	<i>8,000</i>	<i>8,000</i>	<i>8,000</i>	<i>8,000</i>	<i>8m.</i>	<i>8m.</i>	<i>8m.</i>	<i>8m.</i>				<i>5/8</i>
MUD WEIGHT lb.gal	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11.1</i>	<i>11'</i>	<i>11'</i>	<i>11'</i>	<i>11'</i>				<i>11.1</i>
VISCOSITY sec.st	<i>70</i>	<i>68</i>	<i>68</i>	<i>68</i>	<i>68</i>	<i>68</i>	<i>69</i>	<i>69</i>				<i>65</i>
W.L.F.C. cc. 32nd	<i>6.3/32</i>											
p.H.												
MUD LEVEL IN TANKS Ft. In.												

Cut Coring Inter

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN IN.	TOTAL HOURS	FROM	TO	REMARKS
<i>RR1 96 3/16</i>	<i>71A42</i>	<i>WBSDRILL</i>	<i>□</i>	<i>12</i>	<i>2206</i>	<i>2316</i>	<i>30 2 1/2</i>	<i>Good</i>
<i>10 8 3/16</i>	<i>G2949</i>	<i>SWITH</i>	<i>SDGH</i>	<i>3/10</i>	<i>2287</i>			<i>Remaining</i>

CORE No.	No.	DST No.	FROM	TO	REMARKS
<i>2</i>					
TYPE		PREFLOW	THICK	THIN	
FROM	<i>2268</i>	1ST	2ND	3RD	
TO		V.O.	W.B.	TOP	
Recovery		FSI	DUS	FS+P	
HOURS		RECOVERY			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>Ed Krawchuk</i>	<i>G.H. Sodergren</i>	<i>G. FRASER</i>
DERRICKMAN	<i>J. FRASER</i>	<i>J. Petersen</i>	<i>K. FRASER</i>
HELPER	<i>L. CHERMIESKI</i>	<i>R. Rogers</i>	<i>R. SHIELDS</i>
HELPER	<i>D. COLLINS</i>	<i>N. Yashuk</i>	<i>B. BOICK</i>
HELPER	<i>A. BRENNER</i>	<i>R. Calloux</i>	<i>J. MARPLE</i>
FIREMAN			
TOOL PUSHER			

Christ

CHEVRON 5080 WAI PAKIN JT C-33

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
97/1		1200	100	BREAK CIRC AND CIRC 26L
UR		100	115	PIB SERVICE BOX
5 FT		115	145	WAIT ON PUMP
0 FT		145	215	CIRC BULL DOWN
2 FT		215	330	CUTTING CORE #2
FT		330	400	CHANGED PACKING IN PUMP
FT		400	800	CUTTING CORE
5 FT				
FT	TOUR 2	800	830	Cutting Core #2
0 FT	Caustic	100#	830	Change Seat #1 Pump
FT		900	315	Cutting Core #2
FT		315	400	Hoisting Core #2
FT				
2 FT				
5 FT		400	515	Hoist Core #2
7 FT	TOUR 3	515	645	RECOVER CORE #2
FEET		645	715	STAND CORE ALL IN DERRICK
FEET		715	745	RIG SERVICE & CHECK PARTS
FEET		745	745	RUN IN SLOW TO RAYM.
FEET		745	1015	PUT UP KELLY HOSE & BREAK CIRC
HOURS		1015	1030	CIRC 2 Singles TO BTH
7:30 PM		1030	1200	RAYM RAT Hole

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

40,000
50/45
2/8
11.1
65

Cut diamond core #2
Coring company: T.C. Eastland Testers LTD
Interval 2287-2317 - Recovered 30 feet.

Christensen Stub # 80315 in string

[Signature]

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *E. J. P.* RIG NO. *14*

FIELD *EAGLE PLAIN* WELL NAME *N66* LSD *12* SEC *W137* TWP *22*

[] DRILLING [] DEEPENING [] COMPLETING
 [] REDRILLING [] ABANDONING [] REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *DEC 19* 1971

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	NO	173560 FT	NO 18	170385 FT	NO	170385 FT
SINGLE	NO	3175 FT	NO 2	6350 FT	NO	6350 FT
X OVER SUB		302 FT		302 FT		302 FT
OTHER						
DRILL COLLARS	7 O.D.	16 49639 FT		49639 FT		49639 FT
DRILL COLLARS	O.D.					
REAMER	O.D.					
STABILIZER	O.D.	460 FT		460 FT		460 FT
JARS						
BUMPER SUB						
BIT OR CORE BARREL		227136 FT		227136 FT		227136 FT
TOTAL D.P. & TOOLS		1935 FT		1470 FT		1600 FT
KELLY DOWN BELOW R.B.		228571 FT		228606 FT		228736 FT
DEPTH OF TOOLS						

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
------	--------------	---------------	----------------

DEPTH END OF TOUR	2286 FEET	2286 FEET	2287 FEET
DEPTH START OF TOUR			2286 FEET
FOOTAGE DRILLED			1 FEET

DAY WORK	HOURS				HOURS			
	2:00 AM	4:00 AM	6:00 AM	8:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM
PUMP								58900
ROTARY SPEED								45
WEIGHT ON BIT								10
MUD WEIGHT								11.1
VISCOSITY								64
W.L.F.C.								
pH								
MUD LEVEL IN TANKS								

NO.	SIZE	SERIAL	BIT KIND AND TYPE	FEET	FEET	FEET	FEET
8	8 3/4	GH905	SMITH	1/10 1/8	1/4	2286	2287
9	6 3/4	71A4A	◇			2287	

CORE NO.	NO.	DST NO.	TYPE	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>Ed Krawchuk</i>	<i>G.H. Sodergren</i>	<i>J. FASEK</i>
DERRICKMAN	<i>J. FASEK</i>	<i>J. Pedersen</i>	<i>J. FASEK</i>
HELPER	<i>L. CHEKRIEENI</i>	<i>R. Rogers</i>	<i>K. S. H. D. S.</i>
HELPER	<i>D. CUBBINS</i>	<i>N. Yashuk</i>	<i>B. BOICE</i>
HELPER	<i>A. BRENNER</i>	<i>R. Calloux</i>	<i>J. MAPLE</i>
FIREMAN			
TOOL PUSHER			

3.69 old
 2.60 new
 1.09 diff

DST =
 Testing
 Ran down
 Pump
 Choke
 Pump on
 Pre flow
 V.C. at
 Good
 15 min
 Recover
 mud wt
 CI cont
 IMP 13
 FSP 5
 BHT 7
 Charts

CHEVRON SUBC W/ PAKING YF C-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

1971	MUD CHEMICALS ADDED		From	To	WORK DONE
	Kind	Amount			
OUR	TOUR		1200	200	HOIST TO TEST
85 FT			200	215	RIG SERVICE BLIND RANIS
50 FT			215		PICK UP TESTING TOOLS MAKE
02 FT			500	500	SAME UP TRIP IN SHOW.
				600	BLOW OUT FLAIR LINE W/ AIR
37 FT			600		CHECK HYDRIL HENS UP TOOLS
					TESTING FF 2.
	TOUR		800	1045	Testing
10 FT			1045	1100	Pulled Packer Loose Break Header Off
			1100	1230	Hoisting Test #2
			1230	245	Break Down Packer Service +
					Lay Down Same.
36 FT			245	330	Run In W.B.t #3.
00 FT			330	400	Blow Mud Line w/ Steam Breaking Circ
36 FT	TOUR				20' Fluid. In Test.
R		3.69 old SAVAX SUB.	400	430	Rig Set, + Break Circ
FEET		2.60 NEW OAK	430	445	Clean To BTH
FEET		1.09 DIFF.	445	500	Trilling
FEET			500	515	CHANGE SAVAX SUB ON KATH
FEET			515	630	CIRC TO CORE #2
HOURS			630	630	HOIST TO CORE
10:30 PM			630	945	PICK UP CORE 68' + JAP'S
			945	1145	RUN IN TO CUT CORE #4
			1145	1200	BREAK CIRC

CEMENTING TO LOG... DETAIL... NEEDS ENGINEERING... +20°F.

DST # 2 Interval 2268-2286 Lower Cretaceous
 Testing Company - Johnson Testers. Operator - Tom Fulk.
 Ran dual anchor - 7 3/4" rubbers, safety joint, Leejars,
 pump out sub & mfe chamber
 Choke size 1/4" Tail pipe 18' Perforations 10'
 Pump out sub 90' above tool
 Pre flow 5 min Initial shut in at 6:00 am for 45 min
 V.O at 6:45 am for 90 min. Final shut in at 8:15 am for 150 min
 Good initial putt fair air blow decreasing to very weak in
 15 min - remained steady & very faint throughout test
 Recovered 20 ft of drilling mud
 Mud wt before test 11.1. Mud wt recovered on test 10.7
 CI content mud before test 600ppm. CI content mud recovered 600ppm
 IHP 1314 IEP 20 IEP 20 / SIP 283 in 45 min
 FSIIP 520 incomplete in 150 min FH P 1314
 BHT 73°F
 Charts O.K. Test Satisfactory

L. J. Hamilton
 GEORGE COMPANY ENGINEER

TOUR REPORT

FIELD 2431-1-1 WELL NAME 11266

TYPE OF DRILLING DRILLING DEEPENING NO COMPLETING NO

REDRILLING NO ABANDONING NO REWORKING NO

1971

DRIILING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO.	167279	18	170394		173560	
SINGLE	D.P. NO.		2	6372		3175	
X-OVER SUB	7 O.D.	302		302		302	
OTHER	O.D.						
DRILL COLLARS	7 O.D.	49639		49639		49639	
DRILL COLLARS	CORE BCL NO	4458					
REAMER	SUBS O.D.	189					
STABILIZER	82315 O.D.			460		460	
JARS		667					
BUMPER SUB							
BIT OR CORE BARREL							
TOTAL D.P. & TOOLS		227531		227127		227136	
KELLY DOWN BELOW H.R.		340		1373		1525	
DEPTH OF TOOLS		227934		228500		228571	
TOUR		MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		2279	FEET	2285	FEET	2285	FEET
DEPTH START OF TOUR		2268	FEET	2279	FEET		
FOOTAGE DRILLED		11	Feet Cored	6			

DAY WORK	7:00-8:00	8:00-9:00	9:00-10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:00
PUMP	44	44	44	44	44	44	44
ROTARY SPEED	65	65	70	70	70	70	70
WEIGHT OF BIT	8.0	8.0	8.0	8.0	8.0	8.0	8.0
MUD WEIGHT	10.8	11.0	11.0	11.0	11.0	11.0	11.0
VISCOSITY	80	74	65	65	67	70	68
W.L.P.							
MUD LEVEL IN TANK							

7 6 3/4 MAY 2 O WESDRIL 7 1/4 2268 2286 18 2 1/2 Cored
 8 8 3/4 FC 9 1/4 KRAM RAT Hole 3-10 3 1/4 2268 2286 4-1-1

DEPTH	TYPE	FRUIT	TO	REMARKS	HOURS	SIGNATURE
630						
66						
33						
28						
22						

DRILLER: E. KRIVICHAK G.H. Sodergren
 OPERATOR: J. FRASER J. Pedersen
 HELPER: H. SIMONOFFSKI R. Rogers
 HELPER: O. GILBERT M. Yashuk
 HELPER: A. BRENNER R. Calloux
 SUPERVISOR: J. FRASER
 DEPT. HEAD: K. FRASER 2268
 HELPER: K. SHIELDS
 HELPER: B. BOICE
 HELPER: A. HARRIS

CHEVRON CORE UNIT PARKING Y I C-33

MUD & CHEMICALS ADDED		From	To	OTHER HOURS OPERATING DETAIL WORK DONE
Time	Amount			
1971		12:00	12:15	P.I. SERVICE DONE SERVICING BBL PUMP UP 2000 LBS
OUR		12:15		
1:00 FT	Water 2" stream		2:15	SAME TIME 100 MAKE UP KILBY HOLE FULL TIME
1:15 FT		2:15		
1:30 FT			4:15	BREAK CIRC CIRC REC IN 11:10 CUTTING CORE #1
1:45 FT		4:15	3:00	
1:55 FT				Cutting Core #1 Blow Kelly & Hoist Core #1 Give Hole Filler Line while Hoisting Recover 17' Core
2:05 FT		3:00	4:00	
2:15 FT				Service Barrel & Stand In Derrick Run In To Room Rat Hole Pick Up Christ. Stob #72315. Length = 4.60
2:25 FT		4:00		
2:35 FT				Turn in To Room Slow BREAK CIRC
2:45 FT		6:00	6:30	
2:55 FT		6:30	7:00	RIO SEX Check Rams Hydraul Motor SHUT OFF REPAIR RAT HOLE
3:05 FT		7:00	10:45	
3:15 FT		10:45	11:45	CIRC TO TEST Blow Kelly & Hoist TO TEST
3:25 FT		11:45	12:00	

Check PIPE RAMS, HYDRIL, + MOTOR SHUT OFF Dec 18 71

Cut core #1 2267 - 2275 - recovered 18 ft
Corrected TD to 2286
Run in with 4 8 3/4" bit and recovered to 2286

0
4
9
5 1/2
8 1/2
9
40
6000

Christ. Stob #72315 in string

TOUR REPORT

CONTRACTOR **G.P.** DATE **14**

FIELD **EAGLE PLAIN** NAME **N66** SD **12** SEC **W13** TWP **22**

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING **DEL 17** 1971

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P.	NO	173220	NO	173560	173560
SINGLE	D.P.	NO		NO		
X OVER SUB	O.D.		302		302	302
OTHER	O.D.					
DRILL COLLARS	O.D.		49639		49825	49625
DRILL COLLARS	O.D.	NO		NO		
REAMER	O.D.	KIND		KIND		
STABILIZER	O.D.	KIND		KIND		
JARS	O.D.	KIND		KIND		
BUMPER SUB	O.D.	KIND		KIND		
BIT OR CORE BARREL	O.D.	KIND		KIND		
TOTAL D.P. & TOOLS			223651		223487	223487
KELLY DOWN BELOW R.B.			3237		3401	3401
DEPTH OF TOOLS			226888		226888	226888
TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR			2268		2268	2268
DEPTH START OF TOUR						
FOOTAGE DRILLED						

DAY WORK	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
PUMP											
ROTARY SPEED											
WEIGHT ON BIT											
MUD WEIGHT											
VISCOSITY											
W.L.F.C.											

PH
 MUD LEVEL IN TANKS

NO.	SIZE	SECTIONS	DEPTH TO LAST LOG
7	6 3/4	71/442	BIT WARDILL 2268

CORE NO. TYPE FROM TO RECOVERY HOURS

SIGNATURE	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRIVER	Ed KRAWCHUK	G.H. Sadergren	J. Fraser
DRILLING	J. FRASER	J. Pedersen	K. Fraser
HELPER	L. CHERNIPESKY	R. Rogers	B. Shanks
HELPER	D. COLLINS	M. Yashuk	J. Fraser
HELPER	A. BRENNER	R. Calloux	J. Shanks
FIREMAN			
TOOL PUSHER			

CH
 CHEM
 DST #1
 Testing
 Ran down
 and M
 Choke
 Pump on
 Pre flow
 V.O. @ 9
 Gun to 50
 open
 Flow
 7 1/2
 nipple
 on next
 Ran
 mud
 CT cut
 H.P.
 in 20
 Charts

CHEVRON SOBC WM PARKIN YT C-33

OTHER HOLES OPERATING & TAIL WORK DONE

TIME	DEPTH	TEMP	REMARKS
12:00	100		
1:00	300		
3:00	315		
5:00	500		
6:30	630		
7:45	745		
8:00	100		
1:00	130		
1:30	400		
4:00	500		
5:00	730		
9:30	1100		
11:00	1200		

CIRC TO TEST.
 TRIP OUT TO RUN TEST SHOW KELLY
 RIG SERVICE BLIND RAMS
 PICK UP TESTING TOOLS MARCO
 UP SAME
 RUN IN SLOW
 HEAD UP TESTING TOOLS
 TESTING
 Testing.
 Pulled Packer loose - Bleed Off.
 Broke Down Head.
 Hoisting Packer Very Slow.
 No Striper To Watch Mud.
 140' Fluid.
 Finished Hoisting Test #1
 WAIT ON ORDERS, + Lay Down Packer.
 Slip & CUT ILLINE 25 ft.
 Pick up CORE SETS
 Hy Drill + RAM'S CHECK OK Dec 17/71

+17°F

DST #1 Interval 2197 2268 Lower Cretaceous
 Testing Company Johnson Testers Operated on Tim Fulk
 Ran dual anchor - 7 3/4" rubbers, Sundry joint, yars, pumpout sub
 and MFK Chamber
 Choke size 1/2". Tail pipe 70' Perforations 30'
 Pump out sub - 90' above Top of Tool
 Pre flow 5 min Initial shut in @ 8:45 am for 45 min
 V.O. @ 9 am for 90 min. Final shut in at 11:30 am for 150 min.
 Gas to surface in 4 min on pre flow 6:15 immediately on valve
 open measured at 296 mcf after test opened for 30 min
 Flowed through Merla Meter with 4" orifice for 45 min from
 9:45 am to 10:30 am. Built up to 144 mcf in 30 min then grease
 nipple washed out of riser valve making further readings
 on Merla meter chart unreliable
 Recovered 140' of drilling mud.
 Mud weight before test 11.0 Mud weight recovered 10.1
 CI content mud before test 500ppm CI content mud recovered 760ppm
 IHP 1283 IFP 78 ISIP 1169 FTP 132 FSIP 1111 - incomplete
 in 150 minutes. FHP 1261 BHT 78°F
 Charts OK Test satisfactory

13/4

C - 16.1327.122: #C-58, 70" 1b
 C - 10: 80 1b

Signature Company Engineer

TOUR REPORT

CONTRACTOR *R.M.* DATE *10*

FIELD *Midline* WELL NAME *N66* NO. *12* SECURITY TOP *22*

CHE
VI
TEAM

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	NO	170425'	NO	173610'	NO	173760'
SINGLE	NO		NO		NO	
X OVER SUB		302'		302'		302'
OTHER						
DRILL COLLARS						
DRILL COLLARS	NO	49639'	NO	49639'	NO	49639'
WELDER	KIND		KIND		KIND	
STABILIZER	KIND		KIND		KIND	
JARS	KIND		KIND		KIND	
BUMPER SUB						
BIT OR CORE BARREL				223614'		
TOTAL D.P. & TOOLS		220366'		224554'		223651'
KELLY DOWN BELOW RR		4135'		3237'		3237'
DEPTH OF TOOLS		224501'		226851'		226868'
TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		2268'		2268'		2268'
DEPTH START OF TOUR						
FOOTAGE DRILLED						

Gal 600#
WT 1200#

DAY WORK	2:30 AM	4:00 AM	5:30 AM	7:00 AM	8:30 AM	10:00 AM	11:30 AM	1:00 PM	2:30 PM	4:00 PM	5:30 PM	7:00 PM
PUMP												
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT												
VISCOSITY												
W.L.F.C.												
pH												
MUD LEVEL IN TANKS												

Mud wt. 10.9 11'
67.68

Down

Check string
reelback

NO.	SIZE	SERIAL	NO. OF TOOTH	NO. OF TOOTH	NO. OF TOOTH	NO. OF TOOTH	NO. OF TOOTH	NO. OF TOOTH
26	5 3/4	FC 94	SDGH	3-10	4	2145	2165	123 30

CORE	NO.	TYPE	FROM	TO	REMARKS	HOURS

1230
110
64
39
28
22
8
30
500

hard

DRILLER	DRILLER	DRILLER	DRILLER
Ed KAMACHUK	G.H. Sodergren	L. Hansen	
J. FRISOR	J. Pedersen	E. Hansen	ToTCU 2268 1314
L. CHERKINPESKI	R. Rogers	K. Hakala	
D. GEBBING	N. Yashuk	A. Lope	
A. BKENNOR	R. Calliou	J. Weyer	
FIREMAN			
TOTAL RISKER			

PK Stanbury

CHEVRON SOBOWAI PARKING 1

TIME	ACTIVITY	FROM	TO	OTHER HOLES OPERATING	DETAILS
12:00		12:00	1:00		PUMP OUT 2 INCH
1:00		4:30	4:45		BLOW KELLY TRIP OUT AND SET POINT LIFT LAY DOWN 2 3/4 COL. 55 X 118 O.M.B.R.
4:30		4:45	6:00		RIG SERVICE 12000 TONS PICK UP 15 TH HOLE COLLECT TRIP IN SLOW FILL WITH CIRC BLOW KELLY PICK UP SINGLES
6:00		8:00	12:00		Pick Up Singles & Run To Bottom - 12' Fill Service Rig.
8:00		12:00	12:15		Circ To Test.
12:00		12:15	2:45		Drop Survey.
12:15		2:45	3:00		Pulled Up Ch. Mud In Hole For Drooping Or Gassing. - O.K.
2:45		3:00	3:15		BLOW KELLY + BREAK HOSE OFF.
3:00		3:15	4:00		Hoist To Test - Pull Slow 10 Stds. Hole Oil
3:15		4:00	4:30		Hoist + Double Measure out To Test
4:00		4:30	6:00		Rig Service + Check Nam's Motor Start
4:30		6:00	8:00		Pick up Testing Tools + Make up Test
6:00		8:00	8:30		LAY DOWN TEST
8:00		8:30	10:30		Run in Slow + Double Measure
8:30		10:30	11:15		Break Circ & Clean To BTR.
10:30		11:15	12:00		Circ To Test.
11:15		12:00			

Double Tally

P. 226851
 S.M. 226236
 Diff^o 0.13 No Circ made

Checks & measurements after trip out with stick
 string - 10' del^o - ran back in to clean out and
 recheck measurements. Measurements checked O.K.

D
 5
 4 1/2
 8.8
 8
 30
 500
 1314

Laid down 7 3/4" collars, New BTR Heumer # 108711
 Christensen Sub # 82315 - Cummins 50
 Christensen Sub # 82316 - " 50

H. H. Christensen
 OPERATOR

TOUR REPORT

CONTRACTOR *G.P.* WELL NO. *14*

FIELD *EAGLE PLAIN* WELL NAME *N 44*

SURF *12* (FEET) (13) W.P. *22*

[] DRILLING [] DEEPENING [] COMPLETING

[] REDRILLING [] ABANDONING [] REWORKING

TOUR IN HOURS ENDING 12 M. (MIDNIGHT)

15

1971

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
	NO.	FEET	NO.	FEET	NO.	FEET
STANDS <i>4 1/2</i> 18" D.P.		170425		170425		170425
SINGLE D.P.						
X OVER SUB <i>7</i> O.D.		302		302		302
OTHER O.D.						
DRILL COLLARS <i>7 1/2</i> O.D.		3857		3857		3857
DRILL COLLARS <i>12</i> 7" O.D.	NO. KIND	46533	NO. KIND	46533	NO. KIND	46533
REAMER <i>N.B.R.</i> O.D.		602		602		602
STABILIZER <i>CHRISTENSEN</i> KIND		435		435		435
JARS <i>CHRISTENSEN</i> KIND		562		562		562
BUMPER SUB						
BIT OR CORE BARREL						
TOTAL D.P. & TOOLS		222716		222716		222716
KELLY DOWN (BELOW R.B.)		4135		4135		4135
DEPTH OF TOOLS		226851		226851		226851

TOUR
GEL
WE. material
Al Stearate
Mazcobar
Al Stearate

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	2:30 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	<i>44</i>	<i>44</i>	<i>44</i>	<i>44</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT	<i>9.9</i>	<i>9.8</i>	<i>8.9</i>	<i>9.5</i>	<i>9.5</i>	<i>1.4</i>	<i>10.4</i>	<i>10.7</i>	<i>10.5</i>	<i>11.0</i>		
VISCOSITY	<i>45</i>	<i>48</i>	<i>62</i>	<i>64</i>	<i>62</i>	<i>64</i>	<i>58</i>	<i>62</i>	<i>62</i>	<i>59</i>		
W.L.F.C.												

WT. MAT.

Tight pulling

MUD LEVEL IN TANKS	FEET

NO.	SIZE	SERIAL	BIT NO.	NO. OF TOOTH	DATE
<i>6</i>	<i>8 3/4</i>	<i>FC914</i>	<i>Smooth</i>	<i>SD 68</i>	<i>3-10</i>

CORE NO.	NO.	DATE	TYPE	FROM	TO	RECOVERY	HOURS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DIRECTOR	<i>Ed KRAWCHUK</i>	<i>G.H. Sodergren</i>	<i>C. FRASER</i>
DEPARTMENT	<i>G. FRASER</i>	<i>J. Pedersen</i>	<i>K. FRASER</i>
HELPER	<i>A. CHEBNIKESKI</i>	<i>R. Rogers</i>	<i>S. SHIELDS</i>
HELPER	<i>D. CULKINS</i>	<i>N. Yashuk</i>	<i>B. BURK</i>
HELPER	<i>A. BIENNEK</i>	<i>R. Calloux</i>	<i>J. HAYES</i>
FIREMAN			
LOCAL PUSHER	<i>AR Shubert</i>		

CHEVRON SURC W/M PARKIN Y.T.C-35

MUD & CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE		
1971	Kind	Amount	From	To	
0.5 FT	TOUR 1		1200	1400	CIRC HOLE WITH PUMP PRESSURE 4000'
0.5 FT	GEL	1700#	100	115	PICK UP 20 SINGLES GET PUMP
0.3 FT	WT. Material	7100#	115	300	CLEAN TO BIT
0.3 FT	Al Stearate	20#	300		CIRC TO END 2 600 PSI
0.7 FT				800	BLOW OUT KELLY PULL 4 SINGLES HOLD IN 1
0.3 FT					TAKING MUD PICK UP KELLY CIRC HOLE
0.2 FT					WELD KILLING CIRC MIXING W/T. MATERIAL
0.2 FT	TOUR 2		800		Rig Service.
0.2 FT	Magnobar	17000#			Circ. Hole Cond. Mud.
0.2 FT	Al Stearate	20#		400	Run Two Stds. In To 2168'
0.6 FT					Circ Hole Missing Wt. Mat.
0.5 FT	TOUR 3		400	415	Rig Service
0.5 FT	WT. MAT.	12400#	415	800	Circ Hole + Mix W/T MAT.
0.5 FT			800	900	LAY DOWN 9 SINGLES W/ KELLY
0.5 FT			900	915	BLOW KELLY
0.5 FT			915	945	WAK TIGHT PIPE PUT ON KELLY
0.5 FT			945	1200	LAY DOWN 9 SINGLES W/ KELLY + BLOW
0.5 FT					OUT TIGHT SPOTS

CEMENTING MATERIALS USED IN ALL 20 DETAILS INCLUDING MINOR PIPE DAMAGES

Tight spot 1600 - 1700 - rotated down through after pulling above

0.5
9
2 1/2
8 1/2
20
5.00

L. F. J. Family
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR

LOG NO. 151

FIELD Eagle Plains NAME N 66° E 12' W 137° TWP 22'

Cher...

DRILLING DEEPENING COMPLETION
 REDRILLING ABANDONING REWORKING OTHER

Dec 14 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS 12 18 D.P. NO	1704 25	1704 25	1704 25
SINGLE NO			
X OVER SUB 7	302	302	302
OTHER			
DRILL COLLARS 7 1/4 O.D.	3857	3857	3857
DRILL COLLARS 15 7 O.D. NO KIND	46533	46533	46533
REAMER OVER O.D. KIND	602	602	602
STABILIZER O.D. KIND	435	435	435
JARS O.D. KIND	562	562	562
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	2227 16	2227 16	2227 16
KELLY DOWN BELOW R.B.	41 35	41 35	41 35
DEPTH OF TOOLS	2268 51	2268 51	2268 51
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2268	2268	2268
DEPTH START OF TOUR			
FOOTAGE DRILLED			

WT. MATERIAL
 KELZAN
 1" STREAM OF
 WATER
 Gel

Alum. Slur
 Gel
 Macabar.

DAY WORK	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM
PUMP	400	300	350	350	350	350	350	250	100	250	250	400	400
ROTARY SPEED	24	24	24	24	24	24	24	24	56	24	24	24	25
WEIGHT ON BIT													
MUD WEIGHT	7.9	8.4	8.9	8.6	9.3	7.0	9.2	8.4	8.4	8.9	7.0	10.0	
VISCOSITY	44	37	37	40	37	36	45	50	50	55	47	54	
W.L.F.C.													

Cur

pH
 MUD LEVEL IN TANKS

NO.	DATE	SERIAL	DRILLER	LOG
6	8/14	914	SMITH	SDGH 3-10 2145

CORE NO. TYPE FROM TO RECOVERY HOURS

SHIFT	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	K. CHRISTENSEN	E.G. KAWCHUK	R.H. Sadengren
DRILL ASSISTANT	D. DEWITT	M. FRANK	J. Pedersen
HELPER	C. HABERER	L. CHARNICKSKI	R. Rogers
HELPER	B. FINLAY	D. COLLINS	N. Yashuk
HELPER	N. YACKUK	A. BRENNER	R. Callioux
FIREMAN			
TOOL PUSHER	PR. Shambura		

Chevron 503C WM W PARKIN Y T C-33

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
1921	Kind	Amount	12 ⁰⁰	
DUR	TOUR 1			
05 ⁵ FT	WT MATERIAL	34400 [#]		8 ⁰⁰ WELL BLOWING, CIRC THROUGH ADJUSTABLE CHOKE, MIXING WT MATERIAL
FT	KELZAN	150 [#]		
02 FT	LAZY 1 STREAM WATER.			
FT				
07 FT				
03 FT				
02 FT	TOUR 2		3 ⁰⁰	
05 FT	WT MATERIAL	9700 [#]		10 ⁰⁰ WELL BLOWING, CIRC THROUGH ADJUSTABLE CHOKE MIXING WT MATERIAL OPEN BOP. MOVE PIPE CIRC THROUGH FLOW LINE HOST OF MUD WT 10 ⁴⁵ WELL BLOWING CHASE IN CIRC THROUGH CHOKE MIXING WT MATERIAL OPEN BOP. MOVE PIPE CIRC THROUGH FLOW LINE 4 ⁰⁰ RIG SERVICE MIXING MUD CIRC HOLE @ 400 [#] . PULLED UP 60' LAYED DOWN TWO SINGLES. 12 ⁰⁰ MOVING PIPE WHILE CIRC @ 216 [#] . Mud Wt. 11 ²⁰ A.M. - 10 ⁰⁰
02 FT	KELZAN		10 ⁰⁰	
FT	1" STREAM WATER		10 ⁴⁵	
16 FT	Gel	1900 [#]	10 ⁴⁵	
05 FT			3 ⁰⁰	
01 FT	TOUR 3		4 ⁰⁰	
FT	Alum. Ster	10 [#]		
FT	Gel	500 [#]		
FT	Macabar.	16000		

Circulated & built mud weight up to 10⁶/921

10⁰⁰
54

L. T. [Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

EAGLE TRAINS

CONTRACTOR *G.P. DRUG.*

NO. *14*

CHEVRON

FIELD *EAGLE TRAINS* WELL NAME

(1) DRILLING (2) DEEPENING (3) COMPLETING *N 46° 12' W 157° 22' TWP*

(4) REDRILLING (5) ABANDONING (6) REWORKING DATE *DEC 14 1971*

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS <i>17</i>	NO	<i>1577793</i> FT	NO	<i>151479</i> FT	NO	<i>170425</i> FT
SINGLE	NO			<i>302</i>		
X OVER SUB	NO	<i>302</i>				<i>302</i>
OTHER				<i>3857</i>	<i>74C.</i>	<i>3857</i>
DRILL COLLARS <i>7 1/2"</i>	NO	<i>3857</i>		<i>46533</i>	<i>7 C.</i>	<i>46533</i>
DRILL COLLARS <i>15 7"</i>	NO	<i>46533</i>		<i>602</i>		
REAMER <i>N.B.R. CHRISTENSEN</i>	KIND	<i>602</i>	KIND	<i>435</i>	<i>N.B.R.</i>	<i>602</i>
STABILIZER <i>CHRISTENSEN</i>	KIND	<i>435</i>	KIND	<i>562</i>	<i>Stab</i>	<i>435</i>
JARS	KIND	<i>562</i>	KIND		<i>Stab</i>	<i>562</i>
BUMPER SUB						
BIT OF CORE BARREL						<i>222716</i>
TOTAL DF & TOOLS		<i>210064</i>		<i>203770</i>		<i>170400</i>
KELLY DOWN BELOW R.P.		<i>4135</i>		<i>4135</i>		<i>4135</i>
DEPTH OF TOOLS		<i>214199</i>		<i>201905</i>		<i>226855</i>
TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR						<i>2268</i>
DEPTH START OF TOUR		<i>2145</i>		<i>2145</i>		<i>2145</i>
FOOTAGE DRILLED						<i>123</i>

DAY WORK	12 AM - 12 PM	12 PM - 12 AM	12 AM - 12 PM	12 PM - 12 AM
PUMP	<i>Roll</i>			
ROTARY SPEED		<i>55-60</i>		
WEIGHT ON BIT		<i>10-15</i>		
MUD WEIGHT		<i>86</i>		
VISCOSITY		<i>40 47</i>		

MUD LEVEL IN TANKS	1	2	3	4

NO.	SIZE	SERIAL	DATE	TIME
<i>6</i>	<i>8 3/4 FC-914</i>	<i>SMITH</i>	<i>3-10</i>	<i>2145</i>
		<i>SPGH</i>		

CURE	TYPE	FRUIT	TO	RE	HOURS

SPRINT	MANAGER	DRILLER	DEENER	RE-SEA	HELPER	HELPER	FIREMAN	TOOL PUSHER
		<i>K CHRISTENSEN</i>	<i>Ed KHAWCHUK</i>	<i>G.H. Sodergran</i>				
		<i>D DENITT</i>	<i>M FRASER</i>	<i>J. Pedersen</i>	<i>Tot co 2205 1 1/2"</i>			
		<i>G HABERER</i>	<i>L CHERNIPESKI</i>	<i>R. Rogers</i>				
		<i>W. FINLAY</i>	<i>D COBINS</i>	<i>N. Yashuk</i>				
		<i>B FINLAY</i>	<i>A BRENNER</i>	<i>D. Collins</i>				
								<i>CR Houting</i>

KELZAN-1

CAUSTIC KELZAN

N.B.R. S CLEAN UP

what do hydri- flare 1. in 7. sack p. pumping

CHEVRON SUBC Wm PARKIN YTC-33

TOUR	MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING TEAM WORK DONE
	Kind	Amount			
TOUR 1			12 ⁰⁰		
10:05	KELZAN-AK	350#			RUN IN DRILL, FOLLOWERS DRAIN STD PIPE, Blow PRE-MIX LINKS, THAW OUT MUD GATES CLEANING MUD TANKS, MIX MUD RIG SERVICE, HOOK UP DESIATER
10:02			8 ⁰⁰		
10:07					
10:03					
10:02			9 ⁰⁰	11 ⁴⁵	MIX MUD RIG SERVICE
10:05	CAUSTIC	50#	11 ⁴⁵		STAN PIPE RUN IN
10:02	KELZAN	150#			PICK UP 14 SINGLES THAW OUT SINGLE IN MUDS HOLD THAW OUT KELLY MAKE UP KELLY HSG DISPLACE HOLE W/ MUD.
10:06			3 ⁴⁵	4 ⁰⁰	
10:00					
10:05					
10:04			4 ⁰⁰	4 ²⁰	Displace Hole
10:04			4 ³⁰	5 ¹⁵	Pick up 3 Singles.
10:04			5 ¹⁵	5 ³⁰	Clean To Bottom.
10:04			5 ³⁰	7 ³⁰	Service Rig
10:04			7 ³⁰	8 ⁰⁰	Drig
10:04			8 ⁰⁰	10 ⁰⁰	Survey
10:04			10 ⁰⁰	12 ⁰⁰	Drig.
10:04					Well Basing Pumping Thr. Man. Mix. Wt. Mat.

N.B.R SERIAL No 10871 - Chart Cutters
CLEAN MUD TANKS FILL W/ FRESH WATER MUD UP

Shut down to change shaker screen - well kicked - closed
Hydrit - zero pressure on standpipe valve - opened
flow line to manifold - 256 lbs on manifold gauge. Circulated
mud to tank through adjustable choke holding 300 psi
back pressure - stand pipe pressure ranging from 460-250 while
pumping mixed weight material and gauged up tanks.

Ch. sensor stab # 82315 - 4 hrs Cumulative 20 hrs
82316 - 4 hrs 30 hrs

W. J. Gorman
ENGINEER

TOUR REPORT

CONTRACTOR **E.P. DRILL** NO. **14**

FIELD **FAELE TRAILS** WELL NAME

DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING FOR 4 HOURS ENDING 12 M. ON **DEC 12** 1971

N 66° 12' W 137° 28' 56"

CHEVRON

DRILLING ASSEMBLY	END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS 17	NO.	157773 FT	NO.	157713	NO.	157773
SINGLE 10	NO.	788 FT	NO.	788	NO.	302 FT
XOVER SUB D2 7H		3857 FT		3857		3857
OTHER						
DRILL COLLARS 15 7" O.D.		46533 FT		46533		46533
DRILL COLLARS A	NO. KIND		NO. KIND		NO. KIND	
REAMER W.B.R. CHRISTENSEN	KIND	515 FT	KIND	515 10871	KIND	602
STABILIZER CHRISTENSEN	KIND	435 FT	KIND	435	KIND	435
JARS	KIND	562 FT	KIND	562	KIND	562
BUMPER SUB						
BIT OR CORE PARRE						
TOTAL D.P. & TAILS		210463 FT		210463		210064
KELLY DOWN BELOW R.R.		4135 FT		4135		4135
DEPTH OF TOOLS		214598 FT		214598		214199
TOUR	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR		FEET		FEET		FEET
DEPTH START OF TOUR		2145 FEET		2145 FEET		2145 FEET
FOOTAGE DRILLED		FEET		FEET		FEET

CEL

462 800
462 800
462 800

Kelzan-A1

DAY WORK	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM	2:00 AM	4:00 AM	6:00 AM	8:00 AM	10:00 AM	12:00 AM
PUMP												
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT		9.4										
VIBRATOR		49										
Well Flow												

DEPTH	MUD LEVEL IN TANKS

NO.	SIZE	SERIAL	DATE	TIME	BY	REMARKS
5	8 7/8"	GH948	SMITH	3T6	3-10	46

1299 29 **2-1-1**
Shot tails washed

CORE NO.	DATE	TIME	BY	REMARKS

SIGNATURE	MORNING TOUR	AFTERNOON TOUR	REMARKS
K CHRISTENSEN	E. KANUICHUK	C.H. Sodergren	
D DEWITT	H. ESHBCK	T. Polverson	TOTAL 2145 2°
E HADNER	L. CHERNIMESKI	R. Ryzerski	
B. HINKLEY	D. CUBBINS	M. Y. HAK	
N. JACHUK	A. BRENNER		

Circle Kelly...
then...
pumps...
stack...
pipe...
Taking...
every...
Mixed...
46...
166...
20...
pump...
circulation...
down...
lines...

Changed...
Christensen...

OK Harbus

CHEVRON SOBC. Wm Parkin JTC-33

7' UR	MUD & CHEMICALS ADDED		From	To	OTHER HOLES OPERATING (DETAIL WORK DONE)
	Kind	Amount			
3 FT	C-EL	5400#	12 ⁰⁰	1 ¹⁵	Circ & work pipe, pull 2 singles Blow Kelly Hoist 2 STANDS TIGHT PUT 20 KELLS WIRE PUMPING OUT SINGLES STUCK @ 1614'
2 FT				8 ⁰⁰	
7 FT					
3 FT					
2 FT	TOUR 2		3 ⁰⁰	1 ⁰⁰	WORK STOPPING @ 1614'
5 FT	APL 200	1800#	1 ⁰⁰	1 ⁰⁰	Kelly on pump, Kelly 19 and TO GET KELLY THROUGH OUT SMUT COVER AND JUMP WIRE
2 FT	Pipe lax	2 bbl	1 ⁰⁰	2 ⁰⁰	PUMP WIRE AT 1614' WITH 2000 30 min 1/2 TO 1 BBL WORK PIPE 30 FT
	Diesel fuel	80 bbl	2 ⁰⁰	4 ⁰⁰	
			3 ⁴⁵	4 ⁰⁰	
4 FT					
5 FT					
9 FT			4 ⁰⁰	4 ¹⁵	Sev. Rig - Motor Shut Offs.
	Kelzan-Al	100*	4 ¹⁵	8 ⁰⁰	Close Blind Rams Out of Hole. Circ + Cen Hole.
			8 ¹⁰		Hoisting - Hole Tight, Pumped Out Several Single
			11 ³⁰	11 ³⁰	Lay Down Bit Sub + N.B.R. # 2027. Picked Up N.B.R. # 10871
			12 ⁰⁰		Run In One Std. Collars.

Circulated and worked pipe - pulled two singles with Kelly on - pump shut off - socket Kelly - pulled two stands then pulled tight. Put on Kelly and circulated 1/2 hour pumped out 2 singles - pipe free - pulled 3rd single - pipe stuck - could not go back down - lost 43 returns - worked pipe and circulated 1/2 normal returns @ 1250 ps - formation taking fluid. Get pumping water pipe - kelly on pump every 15 min to keep Kelly line, swirl 3 stand pipe throw out.

Mixed 80 bbl diesel oil with 2 bbl of Pipe Lax - displaced 40 bbl down drill pipe at 1⁰⁰ pm - no returns. Pumped 1 bbl by every 30 min. Formation broke down at 4⁰⁰ pm Pumped 10 bbl of diesel - pipe came free. Pulled 3 singles with pump off then circulated with mud bit at 1280. Circulated 3 hours at 1280 psi - pulled tight - laid down singles until pipe out to 1230 feet - pipe came out free. Pulled out of hole.

Changed near bit returners. *10871 now in string

Christensen Stabilizer # 22315 - 0 hrs Cumulative hrs 46
" # 22316 - 0 hrs " " " 46

CHEVRON SOBC. Wm Parkin JTC-33

7' UR	MUD & CHEMICALS ADDED		From	To	OTHER HOLES OPERATING (DETAIL WORK DONE)
	Kind	Amount			
3 FT	C-EL	5400#	12 ⁰⁰	1 ¹⁵	Circ & work pipe, pull 2 singles Blow Kelly Hoist 2 STANDS TIGHT PUT 20 KELLS WIRE PUMPING OUT SINGLES STUCK @ 1614'
2 FT				8 ⁰⁰	
7 FT					
3 FT					
2 FT	TOUR 1		3 ⁰⁰	1 ⁰⁰	WORK STOPPING @ 1414 KICKED IN PUMP Kelly 15 min TO GET KELLY THROAT OUT SMUT COVER AND JUMP WIRE PUMP WIRE AT 1500 WITH 2000 30 min 1/2 TO 1/3 WORK PIPE 30 FT
5 FT	APL 200	1800#	1 ⁰⁰	1 ⁰⁰	
2 FT	Pipe lax	2 bbl	1 ⁰⁰	2 ⁰⁰	
	Diesel fuel	80 bbl	2 ⁰⁰	2 ⁰⁰	
			3 ⁴⁵	4 ⁰⁰	
4 FT					
5 FT					
9 FT			4 ⁰⁰	4 ¹⁵	Sev. Rig + Motor Shut Offs.
	Kelzan-Al	100*	4 ¹⁵	8 ⁰⁰	Close Blind Rams Out of Hole. Circ + Cen Hole.
			8 ¹⁰		Hoisting - Hole Tight, Pumped Out Several Single
			11 ³⁰	11 ³⁰	Lay Down Bit Sub + N.B.R. # 2027. Picked Up N.B.R. # 10871
			12 ⁰⁰		Run In One Std. Collars.

Circulated and worked pipe - pulled two singles with Kelly on - pump shut off - socket Kelly - pulled two stands then pulled tight. Put on Kelly and circulated 1/2 hour pumped out 2 singles - pipe free - pulled 3rd single - pipe stuck - could not go back down - lost 43 returns - worked pipe and circulated 1/2 normal returns @ 1250 ps - formation taking fluid. Get pumping water pipe - kicked in pump every 15 min to keep Kelly line, swivel 3 stand pipe above out.

Mixed 80 bbl diesel oil with 2 bbl of Pipe Lax - displaced 40 bbl down drill pipe at 1⁰⁰ pm - no returns. Pumped 1 bbl by every 30 min. Formation broke down at 4⁰⁰ pm Pumped 10 bbl of diesel - pipe came free. Pulled 3 singles with pump off then circulated with mud bit at 1280. Circulated 3 hours at 1280 psi - pulled tight - laid down singles until pipe out to 1230 feet - pipe came out free. Pulled out of hole.

Changed near bit reamers. *10871 now in string

Christensen Stabilizer # 22315 - 0 hrs Cumulative hrs 46
" # 22316 - 0 hrs " " " 46

TOUR REPORT

CONTRACTOR **G.P. DRAC** WELL NO **14**

CHEVRON
MUD CHEMICALS

FIELD **EAGLE PLAINS** WELL NAME

[] DRILLING [] DEEPENING [] COMPLETING **N 66° 12' W 137° 27'** **Dec 10 1971**

[] REDRILLING [] ABANDONING [] REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR					
STANDS	6 D.P.	NO			NO	820	39	FT	NO	11	1073	02	FT
SINGLE	2 D.P.	NO	598	31	FT	NO			NO	2	820		FT
X OVER SUB	O.D.		788		FT		788				788		FT
OTHER	O.D.				FT								FT
DRILL COLLARS	2 7 3/4 O.D.		38	57	FT	2 1 3/4	38	57	FT		38	57	FT
DRILL COLLARS	15 7" O.D.	NO 15	465	33	FT	NO 15 7	465	33	FT	NO	465	33	FT
REAMER	NBR 2097	KIND	515		FT	NBR	515		FT	KIND	515		FT
STABILIZER	CHRISTENSEN	KIND	435		FT	57.0"	435		FT	KIND	435		FT
JARS	CHRISTENSEN	KIND	562		FT	57.0"	562		FT	KIND	562		FT
BUMPER SUB		KIND			FT				FT	KIND			FT
BIT OR CORE BARREL					FT				FT		1599	92	FT
TOTAL D.P. & TOOLS			1125	21	FT		1347	29	FT		1125		FT
KELLY DOWN (BELOW R.B.)			4135		FT		4100		FT		4125		FT
DEPTH OF TOOLS			1166	56	FT		1388	24	FT		1641	27	FT

TOUR 1
Gel

TOUR 2

TOUR 3
Gel
Caustic

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	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	
PUMP	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	
ROTARY SPEED	55	55	50	50	54	54	50											
WEIGHT ON BIT	20	20	20	20	25	25	30	30	32	35	35	35	35	35	35	35	35	
MUD WEIGHT				8.4			9.2	9.2	9.0	9.0								
VISCOSITY	32	33	34	34	36		37	32	32	30	30							
W.L.F.C.																		

CHRISTENSEN
Revised
H.B. to G
Revised G
Fill
Original @

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO
25	8 3/4	GH949	SMITH 335	3-10		846	

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

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DESIGNER	Kind	Depth	Reading
DRILLER	K. CHRISTENSEN	ED KIRAWOCHUK	P.H. Sodergren				
DERRICKMAN	D. DEWITT	H. FRASER	J. Pedersen	TOTCO	1070	7/8"	
HELPER	H. HABERER	K. CHERNIPESKI	R. Rogers	"	1135	7/8"	
HELPER	W. FINLAY	D. COLLINS	M. Yashuk	"	1198	3/4"	
HELPER	B. FINLAY	A. BRENNER	R. Panayotchev	TOTCO	12.61	7/8"	
				"	1325	3/4"	1482-1/2"
					1388	1/2"	1575-1/2"

X T.M. S...

MAN SHER
AR Hansen

CHEVRON SOBC WMA PARKIN YTC-33

MUD	CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
	Amount	Amount			
19 71			12:00	12:30	FINISH RUN IN PUT ON KELLY HOSE BREAK CIRC & CLEAN 5' DRAG 2 3/4" HOSE W/ 20m RIG SER. SURVEY, CHANGE GLAND PACKING, C-350 O.F.S. DRAG 2 3/4" HOSE W/ 20m. SURVEY (WIRELINE PARTED) DRAG WITH 20m.
02 FT	GEN	1000#	12:30	1:00	
07 FT			1:00	1:15	
12 FT			1:15	3:45	
17 FT			3:45	6:15	
22 FT			6:15	6:45	
27 FT			6:45	8:00	
32 FT					
37 FT					
42 FT					
47 FT			8:00	8:15	RIG SERVICE BOPS DRAG 8 3/4" HOSE W 20m 15m 24 SURVEY @ 1198 3/4 DRAG W 25m SURVEY @ 1261 7/8 DRAG W 30m SURVEY @ 1325 DRAG W 30m Survey @ 1388 1/2 Drlg 30m. Rig Service. Drlg 35m. Survey @ 1482 1/2 Drlg 35m. Survey 1575 - 1/2 Drlg 35m.
52 FT			8:15	9:30	
57 FT			9:30	9:45	
62 FT			9:45	12:00	
67 FT			12:00	12:15	
72 FT			12:15	2:15	
77 FT			2:15	2:30	
82 FT			2:30	4:00	
87 FT			4:00	4:30	
92 FT			4:30	5:00	
97 FT			5:00	5:30	
102 FT			5:30	7:00	
107 FT			7:00	7:30	
112 FT			7:30	10:00	
117 FT			10:00	10:30	
122 FT			10:30	12:00	
127 FT					
132 FT					
137 FT					
142 FT					
147 FT					
152 FT					
157 FT					
162 FT					
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962 FT					
967 FT					
972 FT					
977 FT					
982 FT					
987 FT					
992 FT					
997 FT					
1002 FT					
1007 FT					

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

CHRISTENSEN STABS 29 3/4 HOURS

Revised K.B	1706.0
K.B to Grid	<u>18.3</u>
Revised Grid Elevation	1687.7
Fill	<u>3.7</u>
Original Grid Elevation	1684.0

X Ten Stabilizer = 82315 - 19 1/2 hrs Cumulative 29 3/4 hrs
 " " " = 82316 - 19 1/2 hrs " " 29 3/4 hrs

Reading
 718
 718
 3/4
 7/8
 3/4
 1/2

1482-1/2
 1575-1/2

Signature
 COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRUG**

14

CHEVRON

FIELD **EAGLE PLAINS** WELL NAME

[] DRILLING [] DEEPENING [] COMPLETING [] REDRILLING [] ABANDONING [] REWORKING

CONTRACT NO. **N 66° 12' 00" W 137° 21' 00" E**

DATE **DEC 9**

1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS 3 D.P. NO	28489 FT NO	4 74244 FT NO	4 74187 FT NO
SINGLE 1 D.P. NO	3171 FT NO	2 302 FT NO	2 718 FT NO
X OVER SUB O.D.	302 FT	302 FT	718 FT
OTHER O.D.			
DRILL COLLARS O.D.			2791 FT
DRILL COLLARS 16 7" O.D. H-90	49638 FT NO 16	49638 FT NO 16	46533 FT NO 16
REAMER NCR 9027	515 FT	515 FT	515 FT
CHRISTENSEN	435 FT	435 FT	435 FT
STABILIZER O.D.	562 FT	562 FT	562 FT
JARS CHRISTENSEN			
BUMPER SUB			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	83110 FT	95696 FT	96877 FT
KELLY DOWN (BELOW R.B.)	4135 FT	28 FT	2954 FT
DEPTH OF TOOLS	87245 FT	98496 FT	99831 FT
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	872 FEET	985 FEET	998 FEET
DEPTH START OF TOUR	826 FEET	872 FEET	985 FEET
FOOTAGE DRILLED	46 FEET	113 FEET	13 FEET

DAY WORK	HOURS				HOURS				
	2:00 AM	4:00 AM	7:00 AM	8:30 AM	AM 12:00 AM	2:00 PM	4:00 PM	5:00 PM	6:00 PM
PUMP SPM (PSI)			1000	1000	900				
ROTARY SPEED RPM			50	50	54	54	54	54	54
WEIGHT ON BIT M lbs			10	15	10	10	10	10	10
MUD WEIGHT lb gal			8.3				8.4	8.4	8.4
VISCOSITY sec ct			28		28	29	30	36	36
W.L.F.C cc 32ng									
pH									
MUD LEVEL IN TANKS Ft Ins									

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	REMARKS
5	8 1/4	GH948	SMITH 3JS	2-10 1-12	1	846	846	
4	12 1/4	WH968	H.W. - OSCIG - R.R	Open	1 1/2	836	846	20 6 3-2-1
15	8 3/4	GH948	3JS	3-10	10 1/4			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	EXHAUSTION RECORD		
DRILLER	K CHRISTENSEN	Ed KRAWICHUK	G.H. Sedoyan	Kind	Depth	Read
DERRICKMAN	D DEWITT	B FRASER	T. Pedersen	840'	3/4	
HELPER	G HABERER		R. Rogers	862	1/2	Christensen
HELPER	W. FINLAY	D COLMINS	N. Yastuk	892	1	"
HELPER	B. FINLAY	A BRENNER	S. Pougnet	924	1/2	"
				956	3/4	
				998	1/2	Wear bit

TOUR 2
 TOUR 3
 TOUR 4
 Gel
 Sapp
 Drill on
 Temp at
 in bit
 Double

STIFF
 1 - near
 1 - close
 1 - 7 3/4
 1 - Christ
 1 - 7 3/4
 1 - Chr.

CR [Signature]

CHEVRON SOBC WM PARKIN YTC-33

OTHER HOURLY OPERATING DETAIL WORK DONE

TIME	MUD	CHEMICALS ADDED	From	To	WORK DONE
1971			8:00	1:00	DRILL OUT CEMENT & SHOE
197	TOUR 1		1:00	2:30	DRILL 12 1/4 HOPE 20'
197			2:30	3:00	DROP SURVEY & BLOW KELLY RIG SER. THOW
198			3:00	4:00	HOIST MEASURE
197			4:00	5:30	CLEAN MUD TANKS PRIME PUMPS MAKE
198			5:30	6:30	UP STABS & BTM. COLLAR
197			6:30	7:00	RUN IN WITH BIT
198			7:00	8:00	POT ON KELLY HOSE BREAK CIRC.
195	TOUR 2		8:00	8:30	DRILL & DISPLACE
195	Sodium Carbonate 1 bag		8:30	9:15	RIG SERVICE SURVEY
192	Oil	1900 #	9:15	9:30	DRILL 8 3/4 HOLE
191	Water		9:30	11:45	SURVEY 3 1/2
197			11:45	12:00	DRILL
194			12:00	2:45	SURVEY 924
191			2:45	3:00	DRILL
184			3:00	4:00	SURVEY 954 3/4
181	TOUR 3		4:00	6:30	DRILL
180	Gel	2000 #	6:30	6:45	Drily.
177	Sapp	50 #	6:45	7:00	Survey
174			7:00	8:00	Rig Service
171			8:00	10:30	Hoisting To Pick Up Stiff Assembly
168			10:30	12:00	Welding Mud Saver Pen On Top Drilling Nipple
165					" Sucktion For Desitter + Valve On Drilling
162					Pick Up Collars & Running In Nipple Filler
159					Re Assembly

CEMENTING TESTING FISHING SPECIAL REPAIRS INCLUDING ENGINEERING SURVEYS

DRILL OUT BIT HOISTED @ 846'

Top at 498 to pick up 7 3/4" collar and put smaller jets in bit.

Double Tally cost	Round Tally	408.34
	SLM	998.03
	Diff	626 - No Cost = make

Stiff assembly

- 1 - near bit reamer 5.15
- 1 - Chesub 4.86
- 1 - 7 3/4" Drill Collar 10.37
- 1 - Christensen blade stab 4.35
- 1 - 7 3/4" Drill collar 28.20
- 1 - Christensen blade stab 5.62

3/4	Christensen Stabilizer # 82315	- 10 1/4 hrs	Cumulative hrs 9 1/4	
1/2	"	" 82316	- 10 1/4 hrs	" " 9 1/4
1				
1/2				
3/4				
1/2	Wear bit reamer Serial # 9027			

L. F. Assembly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P. DRIG.** RIG NO **14**

FIELD **EAGLE PLAINS** WELL NAME

LSD SEC TWP

Rd W

CHEVRON

DRILLING DEEPENING COMPLETING **N66° 12' W 137° 28' 50"**

REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT

DEC. 8 / 71

19

DRILLING ASSEMBLY		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
STANDS	D.P. NO	19031	FT	NO	28512	FT	NO 79031 FT
SINGLE	D.P. NO	6306	FT	NO		FT	NO 31664 FT
X-OVER SUB	O.D.	827	FT	2	827	FT	0 11 FT
OTHER	O.D.	95	FT	BIT	95	FT	BIT 95 FT
DRILL COLLARS	O.D.		FT			FT	
DRILL COLLARS	O.D. NO	46530	FT	NO 15	46530	FT	NO 465 FT
REAMER	O.D. KIND		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			FT	79116 FT
TOTAL D.P. & TOOLS			FT			FT	83251 FT
KELLY DOWN (BELOW R.B.)		4135	FT	28 00		FT	2635 FT
DEPTH OF TOOLS		77924	FT	76764		FT	81751 FT

TOUR 1

TOUR 2

TOUR 3

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DAY WORK	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DAY WORK	DEPTH END OF TOUR	DEPTH START OF TOUR	FOOTAGE DRILLED	DAY WORK
1	826				826				826			

NO.	SIZE	SERIAL	BIT KIND AND TYPE	LET SIZES (IN 1/32)	ENTAL HOURS	FROM	TO	CONDITION
124	12 1/4	WH868	OSCIBJ USED					
4	12 1/4	WH868	OSCIBJ					

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	K. CHRISTENSEN		G.H. Sudergren
DERRICKMAN	D. DEWITT		J. Petersen
HELPER	E. HABERER		Ro Rojas
HELPER	W. FINLAY		N. Yashuk
HELPER	B. FINLAY		R. Pinguetta
FIREMAN			
TOOL PUSHER			

Pressure bleed off
Pressure
 Inside valve
 No bleed
 Flare line
Pressure T
 outside flare
 valves o.k.
Pressure T
 1500 psi P

Pressure T
 line to 1500

CHEVRON SUBC W.M. PARKIN JTC-33

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Hour	Amount			
TOUR 1		12 ⁰⁰	8 ⁰⁰	WORKING ON PIPE PIPE RAMS
TOUR 2		3 ⁰⁰		WORK ON PIPE RAMS PRESSURE TESTED WITH 1500 PSI WORK ON FLARE LINE VALVE TIGHTENED MANIFOLD LINES VALVE ETC. PRESSURE TESTED HYDRIL MANIFOLD CHECK VALVE TO 1500 PSI FOR 15 MIN OK DRILL CEMENT TO THE PLUG (150)
TOUR 3		4 ⁰⁰	4 ⁴⁵	Drilling Out Plug Float
		4 ⁴⁵	5 ⁰⁰	Service Rig.
		5 ²⁰	10 ⁰⁰	Drilling Out Plug Float.
		10 ⁰⁰	12 ⁰⁰	Drilling Cement To Shoe.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Pressure Tested pipe rams to 1500 psi for 15 min bleed off 25 psi - pipe rams O.K.

Pressure Tested Hydril, check valve on kill line, inside valve on flare line to 1500 psi for 15 min no bleed off - Hydril O.K. check valve O.K. inside valve flare line O.K.

Pressure Tested outside drilling valve, outside kill line valve outside flare line valve for 15 min to 1500 psi - no bleed off values O.K.

Pressure Tested inside drilling valve, inside kill line valve to 1500 psi for 15 min to 1500 psi - no bleed off. Values O.K.

Pressure Tested all valves in flare manifold and flare line to 1500 psi - all O.K.

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO. *111*

FIELD *Fisole Phainic* WELL NAME

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

COORDINATES: *N 66° 12' 00" W 137° 28' 30" E*
 DATE: *Dec 7/19*

Cherow S
 MUD CHEMICALS

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

TOUR 1
 19031
 6306
 827
 95
 46530
 TOUR 2
 4135
 77924
 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 AM	4:00 AM	6:00 AM	8:00 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 PM	
PUMP												
ROTARY SPEED												
WEIGHT ON BIT												
MUD WEIGHT												
VISCOSITY												
W.L.F.C.												
p.H.												
MUD LEVEL IN TANKS												

Pressure Log
Pressure
bleed log
Pressure
Top of

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS
<i>4</i>	<i>12 1/4</i>	<i>WN 868</i>	<i>OSCIG (Used)</i>					

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

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C. Fraser</i>	<i>M. Christensen</i>	<i>Ed. Brannan</i>
DERRICKMAN	<i>K. Fraser</i>	<i>D. Dewitt</i>	<i>J. Fraser</i>
HELPER	<i>K. Shields</i>	<i>Clay Haberer</i>	<i>L. Chermiowski</i>
HELPER	<i>G. Boick</i>	<i>Bob Finlay</i>	<i>D. Collins</i>
HELPER	<i>J. Masple</i>	<i>W. Finlay</i>	<i>A. Bremner</i>
FIREMAN			
TOOL PUSHER			

Chilton 508c NM PARKIN YTC-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

MUD & CHEMICALS ADDED		From	To	
Feet	Amount			
19				
18				
17				
16				
15				
14				
13				
12				
11				
10				
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TOOK BOWL ON C.S.G.
PICK UP BOPs
CLEAN UP BOPs, PUT STUDS IN
PUT ON BARBAX GRAY FLANGE.
LET DOWN BOPs TESTED SAME.
HOOK UP BOPs, PUT ON
FLOW LINE + FLOW NIPPLE.

TIE INTO TESTING MANIFOLD
HOOK UP KILL LINES. HOOK UP BOP
LINE PRESSURE UP ON BLEND
RINGS - HOLD O.K. CHECK MOTOR
SHUT OFF. MAKE UP BIT &
BELL SUBS - START RUNNING IN

RUN IN W/ 12 1/4 BIT PICK UP 4
SINGLES LAY 2 DOWN
PRESSURE TEST KELLY COOK TO 1500 PSI
THROW OUT KELLY OUT OF SOCK @
KELLY
LAY FINE LINE
HOOK UP B.S TO STAND PIPE
TOP OF CEMENT 785.70

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

BARBAX GRAY STK # 38301
12-3000 MSP R-57
12 3/8 BORE.

C.S.G. BOWL BORE 12 3/8

Pressure Testing with BS Cementing Unit and using dual fluid
Pressure Test & bleed runs to 1500 psi for 30 min. No
bleed back - bleed runs O.K.
Pressure Test & Kelly cook to 1500 psi for 10 min - No bleed back - O.K.

Top of cement at 785.70

L. F. Grumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* REL. NO. *14*

FIELD *King Plains* WELL NAME _____ LSD _____ SEC _____ TWP _____ Rm _____ W _____
 DRILLING DEEPENING COMPLETING *066° 12' N 137° 28' 56" W*
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *Dec 6/71* 19

Alfonso
 MUD _____ CHEMICALS _____
 K _____

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		KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	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 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												

Circular collar average

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	ROW	COL	FEET	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT				
TYPE		PREFLOW	mins	I.H.P.	ps	I.H.P.	ps	Flow	
FROM		FSI	mins	F.H.P.	ps	F.H.P.	ps	M.W.	
TO		V.O.	mins	I.S.T.P.	ps	O.T.S.	mins	V.V.	
Recovery		FSI	mins	F.S.T.P.	ps	F.T.S.	mins	V.V.	
HOURS		RECOVERY						P.V.	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>C. FRASEK</i>	<i>K. CHRISTENSEN</i>	<i>E.C. WYBANCHEK</i>	Kind	Depth	Reading
DERRICKMAN	<i>K. FRASEK</i>	<i>D. DEWITT</i>	<i>M. FRASEK</i>	<i>Auto</i>	<i>824</i>	<i>1/8</i>
HELPER	<i>K. SHIELDS</i>	<i>G. HABERER</i>	<i>L. CHERNICKSKI</i>	<i>Wire</i>		
HELPER	<i>B. BOICK</i>	<i>W. FINLAY</i>	<i>D. COLLINS</i>			
HELPER	<i>J. Manph...</i>	<i>B. FINLAY</i>	<i>A. BRENNER</i>			
FIREMAN						
TOOL PUSHER	<i>San Rounding</i>					

CHERTON SOBC WM PARKING YTC - 33

OTHER HOURLY OPERATING DETAIL
WORK DONE

19	MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
	K	Amount			
TOUR	TOUR 1		12 ⁰⁰	8 ⁰⁰	CIRC WARM WATER
FT					
FT					
FT					Return water Temperature
FT					48° - 52°
FT					
FT	TOUR 2		8 ⁰⁰	4 ⁰⁰	CIRC. WARM WATER
FT					
FT					
FT					WATER TEMP.
FT					
FT					
FT	TOUR 3		4 ⁰⁰	8 ⁰⁰	CIRC WARM WATER.
FT					LAY DOWN 25 SINGLES
FEET			8 ⁰⁰		Blow KELLY HOSE OUT
FEET					PULL OFF Flow Line a FLOW NIPPLE OFF
FEET					CSG pull mouse hole CUT COLLAR
HOURS				12 ⁰⁰	OFF and PICK UP CSG BOWL
2:00 P.M.					CLEAN UP SANGIE

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

Circulated surface pipe from top of float collar until 8⁰⁰ PM - Total circulating time 48 hours average return water Temperature 52°F.

L. F. Crumly
SIGNATURE COMPANY ENGINEER

MAYRON SOBEC VM PARKIN VTC-33

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	4 ⁰⁰	PIPE DOWN WATER
TOUR 2		8 ⁰⁰		CIRC. WARM WATER HOOK UP WATER LINES TO RIG & CIRC. SAME. BOLT IN HYDROMATIC RIG SERVICE, CHECK MOTOR SHUT OFFS BRAKE CHECK
TOUR 3		4 ⁰⁰	12 ⁰⁰	GENERAL CLEAN UP

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

L.F. Gumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *Kyle Plains* WELL NAME *NG6° 12' W 137° 21' SE* CONTRACTOR *GP Drilling* RIG NO. *14*
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *Dec 4/71* 19

Chapman
 MUD CHEMICALS

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 NO KIND				FT NO KIND				FT NO KIND				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 DP & TOOLS					FT				FT				FT
KELLY DOWN (BELOW RB)					FT				FT				FT
DEPTH OF TOOLS					FT				FT				FT

TOUR 1
 TOUR 2
 TOUR 3

DAY WORK	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	2:00 AM	4:00 AM	6:30 AM	9:00 AM	AM	12:00 AM	2:00 PM	4:00 PM	6:30 PM	PM	10:00 PM	12:00 PM
PL IP	/											
ROTARY SPEED	/											
WEIGHT ON BIT	/											
MUD WEIGHT	/											
VISCOSITY	/											
V L F C	/											
p.H	/											
MUD LEVEL IN TANKS	/											

*Plug Down @ 8
 Cemented
 CaCl₂ w/
 slurry - f
 Mixing water
 at plug loc
 4:20 AM - Fin
 on plug
 an estimate*

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	INITIAL P.W. IN	PREV	TO	DEPTH	REMARKS

SIGNATURES	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR	
	No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT
DRILLER	<i>C. FRASER</i>			<i>H Christenson</i>	<i>Ed Krauchner</i>	
DERRICKMAN	<i>K. FRASER</i>			<i>Glen Huber</i>	<i>K. FRASER</i>	
HELPER	<i>K. SHIELDS</i>			<i>W Finlay</i>	<i>L. CHERNIPESKI</i>	
HELPER	<i>L. BOICE</i>			<i>B Finlay</i>	<i>D COLLENS</i>	
HELPER	<i>V. MAPLE</i>				<i>A BRENNER</i>	
FIREMAN						
TOOL PUSHER	<i>Richard King</i>					

Started casing @

Champion SOBC WM Parkin VTC-33

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		1200	100	Put on Bd Permanent
		100	3:00	Close out 0.50
		3:15	4:45	Permanent
		4:45	5:30	Pump Down plug
		5:30		Put conductor back on 0.50
				Put 0.50 clamp on 0.50
				Drain mud tanks
				Back of having joint to dry down
TOUR 2		8:30 am		Dismantle & set up head & conductor pipe screw on second flowline
				Apply flow line, clean mud tank
				Fill with water
			4:00 pm	Thaw out mud roll
TOUR 3		1100		THAWING OUT MUD ROLL
				PICK UP 25 SINGLES
				CLEAN MUD TANK
				CLEAN UP AROUND RIS
			1200	HOOK UP REFRIGERATION UNIT
				CIRC @ 850 PSI

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Plug Down @ 9:30 AM in the hole -25 Clear
 Cemented casing with 850 sac construction cement with 3% CaCl₂ using BT skid cementer. Started mixing at 3:20 AM - 15 1/2 gal slurry - finished mixing at 3:30 AM. Slurry Temperature 55-60°F. Mixing water temp 80-75°F. Had trouble getting pin out of plug loading head to release plug. Started displacing at 4:20 AM - finished displacing at 5:20 AM - 124 bbl water. Final pressure on plug 850 psi. Released pressure - flow held. Circulated an estimated 130 sac cement

Started circulating warm water inside surface casing @ 8:30 AM

L. J. G. Assembly
 SIGNATURE COMPANY ENGINEER

Champion SOBC WA Parkin VTC-33

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		1200	100	Put on Bd Permanent
		100	3:00	Close out 0.50
		3:15	4:45	Permanent
		4:45	5:30	Pump Down plug
		5:30		Put conductor back on 0.50
				Put 0.50 clamp on 0.50
				Drain mud tanks
				Back of having joint to dry down
TOUR 2		8:30 am		Dismantle & staking head & conductor pipe. Screw on second flowline
				Hooking flow line, clean mud tank.
				Fill with water
			4:00 pm	Thaw out mud roll
TOUR 3		1100		THAWING OUT MUD ROLL
				PICK UP 25 SINGLES
				CLEAN MUD TANK
				CLEAN UP AROUND RIS
			1200	HOOK UP REFRIGERATION UNIT
				CIRC @ 850 PSI

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Plug Down @ 9:30 AM in the hole -25 Clear
 Cemented casing with 850 sac construction cement with 3% CaCl₂ using BJ skid cementer. Started mixing at 3:20 AM - 15 1/2 gal slurry - finished mixing at 3:30 AM. Slurry Temperature 55-60°F. Mixing water temp 80-75°F. Had trouble getting pin out of plug loading head to release plug. Started displacing at 4:20 AM - finished displacing at 5:20 AM - 124 bbl water. Final pressure on plug 850 psi. Released pressure - flow held. Circulated an estimated 130 sac cement.

Started circulating warm water inside surface casing @ 8:30 AM

L. J. G. Assembly
 SIGNATURE COMPANY ENGINEER

ALLIANCE SOBC WM PARKIN YTC-33

MUD or CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
K-1	Amount			
TOUR 1		12:00	1:00	MR GEL + FIBERTEX
		1:00	2:00	CIRC
	Gel # 1200	2:00	2:30	RUN IN 2 STABS, 1 5/8" DC
	FIBERTEX - Tex 5 bags	2:30	3:00	CLEAN 20' TO BIT
		3:00	4:15	CIRC & WORK PIPE
		4:15	5:30	HOIST + DOUBLE MANSUKA
		5:30	6:15	RUN IN 40'
		6:15	6:45	CLEAN 10' TO BIT
		6:45	8:15	CIRC & WORK PIPE TO RUN CS9
TOUR 2		8:00	10:15	CIRC & BUILD VIS.
	GEL 3000*	10:15	10:30	RG SERVICE SURVEY @ 824' BLOW KELLY
		10:30	11:00	DUMMIES TRIP 4 STD
		11:00	12:15	CLEAN 5' FILL TO BIT CIRC TO RUN PIPE
		12:15	1:00	BLOW KELLY PULL ROTATING HEAD OFF.
		1:00	4:00	HOIST TO RUN PIPE (MEASURE) LAY DOWN STABS, 1 10" DC'S.
TOUR 3		4:00	4:15	5LM PIPE
		4:15	5:15	LAY DOWN SWIVEL
		5:15	12:00	RIG TO RUN CS9. RUN IN SAME

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Double Strap pipe TD 5LM 826.37
 Pipe Tally 824.37
 Diff 2.00' - Conn made

INSPECTED 26 JNTS K.S. 13 3/8 JAP CS9 PRIOR TO RUNNING
 FOUND TO BE OK LOW HUNDREY

Casing details:

Ran 26 jts (833.00') of 13 3/8" x 54.5 #/ft K.S, 8rd, seamless, STIC
 Rge 2 Sumo time surface casing equipped with Davis Lynch float shoe, float collar & 4 centralizers. Landed casing at 823 KB
 BOTTOM 3 joints were electrically welded & thread locked to form one continuous unit. Started running casing at 5:15 PM
 casing on bottom at 11:45 PM.

Casing was ran as follows:

- 1 - Davis Lynch float shoe 1.53
- 1 - 13 3/8 x 54.5 #/ft K.S casing 31.21
- 1 - 13 3/8 Davis Lynch float collar 1.86
- 25 jts 13 3/8 x 54.5 #/ft K.S. esp 798.46
- 7 TOTAL casing string 833.06
- Landed up from K.B. 10.00
- Casing landed at 823.00 KB

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO *14*

FIELD *Fossil Plains* WELL NAME

LSD *04* SEC TWP R₄₀ W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

N 66° 12' W 137° 28' 56"
 FOR 24 HOURS ENDING 12 MIDNIGHT *Dec 2/7*

1971

CHARTER
 MUD CHEMICAL
 K

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR					
STANDS D.P. NO				FT	NO <i>24</i>	<i>25485</i>	FT	NO	<i>25485</i>	FT				
SINGLE <i>XO 7 5/8</i> D.P. NO			<i>467</i>	FT	NO	<i>10</i>	FT	NO		FT		<i>467</i>	FT	
X OVER SUB O.D.				FT			FT			FT			FT	
OTHER <i>XO 6 3/4</i> O.D.			<i>302</i>	FT		<i>302</i>	FT			FT		<i>302</i>	FT	
DRILL COLLARS <i>2 10"</i> O.D.			<i>6044</i>	FT		<i>6044</i>	FT			FT		<i>6044</i>	FT	
DRILL COLLARS O.D. NO				FT	NO <i>15</i>	<i>46504</i>	FT	NO		FT		<i>46504</i>	FT	
REAMER O.D. KIND				FT	KIND		FT	KIND		FT			FT	
STABILIZER O.D. KIND			<i>1405</i>	FT	KIND	<i>1405</i>	FT	KIND		FT		<i>1405</i>	FT	
JARS KIND				FT	KIND		FT	KIND		FT			FT	
BUMPER SUB KIND				FT	KIND		FT	KIND		FT			FT	
BIT OR CORE BARREL				FT			FT			FT			FT	
TOTAL D.P. & TOOLS			<i>22310</i>	FT		<i>80207</i>	FT			FT		<i>80207</i>	FT	
KELLY DOWN (BELOW R.B.)			<i>4135</i>	FT		<i>2235</i>	FT			FT		<i>2235</i>	FT	
DEPTH OF TOOLS			<i>81167</i>	FT		<i>82437</i>	FT			FT		<i>82437</i>	FT	

TOUR 1
Fiber

TOUR 2

TOUR 3
5600 gel*
12 bags Fiber
bags sand
water
Caustic

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR				
DEPTH END OF TOUR			<i>811</i>	FEET			<i>824</i>	FEET				FEET	
DEPTH START OF TOUR			<i>722</i>	FEET			<i>811</i>	FEET			<i>824</i>	FEET	
FOOTAGE DRILLED			<i>89</i>	FEET			<i>13</i>	FEET				FEET	

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10 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 R.P.M.		<i>70</i>	<i>70</i>									
WEIGHT ON BIT M lbs.		<i>10</i>	<i>10/15</i>									
MUD WEIGHT lb/gal												
VISCOSITY sec qt												
W.L.F.C c.c. 32nd												
p.H												
MUD LEVEL IN TANKS Ft. Ins												

56 M
Pipe Tuff
Ditch

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	FEET	REMARKS
<i>3A</i>	<i>1 7/8</i>	<i>XD682</i>	<i>OSC 1 G</i>	<i>open</i>	<i>5 1/2</i>	<i>799</i>	<i>824</i>	<i>10220</i>	

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
TYPE		PREFLOW	mins. FHP	ps. FEP	ps. Time	ps. Wt	ps. Visc
FROM		FSI	mins. FHP	ps. FEP	ps. Time	ps. Wt	ps. Visc
TO		V.O.	mins. FHP	ps. FEP	ps. Time	ps. Wt	ps. Visc
Recovery		FSI	mins. FHP	ps. FEP	ps. Time	ps. Wt	ps. Visc
HOURS		RECOVERY					

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION REQUIRED		
DRILLER	<i>C. Fraser</i>	<i>R. CHRISTENSEN</i>	<i>Ed KRAWCHUK</i>	Kind	Dept	Reading
DERRICKMAN	<i>C. Fraser</i>	<i>D. DEWITT</i>	<i>J. FRASER</i>	<i>LINK</i>	<i>740</i>	<i>1/4</i>
HELPER	<i>H. Stalder</i>	<i>G. HABERER</i>	<i>L. CHERNIPSKY</i>			
HELPER	<i>B. Luce</i>	<i>W. FINLAY</i>	<i>D. COLLINS</i>			
HELPER	<i>J. Wargala</i>	<i>B. FINLAY</i>	<i>M. BRENNER</i>			
FIREMAN						
TOOL PUSHER	<i>Jim ...</i>					

CHICKEN SORE W/ PARKING YTC-33.

1971	MUD or CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
	Kind	Amount			
1	TOUR 1		12:00	1:30	HOIST + DOUBLE MEASURE OUT CHANGE BIT Run in w/ BIT # 3 WAIT ON AIR & FOAM Drilling SURVEY @ 780 Drilling DRUG w/ 10 m CIRC. WORK PIPE SHOW BLUE LINE w/ AIR TURN ROTATING HEAD, HOOK UP FLOWLINE PUMP DOWN MUD NO RETURNS MIXING MUD WAITING ON WATER
5	Fiber	12 sacks	1:30	1:45	
7			1:45	2:45	
			2:45	3:15	
			3:15	6:00	
2			6:00	6:15	
4			6:15	8:00	
4					
	TOUR 2		8:00	9:00	
5			9:00	9:30	
			9:30		
				12:00	
7				4:02	
5	TOUR 3		4:00	4:30	
7	5600* gel	5600 ^{lb}	4:30	9:00	
	12 bags Fiber Gel	12	9:00	12:00	
	bags sand	60			
	water				
	Caustic	100 ^{lb}			

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

56 M 748.69
 Pipe Tally 747.61
 Diff = 1.08 - No Correction made

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO *141*

FIELD *Facke Plains* WELL NAME *N66° 12' 10" E 137° 22' 00" S* TWP *13N* R. *10E* W. *10E*

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *Dec 1 19*

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO.		<i>25</i> 82 FT	<i>20</i> 52 FT
SINGLE <i>XO 7 3/8" P</i> NO.	<i>4</i> 67 FT	<i>2</i> 67 FT	
X OVER SUB XO 7 3/8" D NO.			<i>4</i> 67 FT
OTHER <i>XO 6 3/4" D</i> NO.	<i>3</i> 02 FT	<i>3</i> 02 FT	<i>3</i> 02 FT
DRILL COLLARS <i>2 10 1/2" D</i> NO.	<i>6</i> 04 FT	<i>6</i> 04 FT	<i>6</i> 04 FT
DRILL COLLARS <i>13 7" D</i> NO.	<i>4</i> 02 88 FT	<i>15</i> 46 50 FT	<i>4</i> 65 04 FT
REAMER O.D. KIND			
STABILIZER O.D. KIND	<i>1</i> 40 5 FT	<i>1</i> 40 5 FT	<i>1</i> 40 5 FT
JARS O.D. KIND			
BUMPER SUB O.D. KIND			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS		<i>5</i> 79 49 FT	<i>7</i> 05 74 FT
KELLY DOWN (BELOW R.B.)	<i>2</i> 13 5 FT	<i>4</i> 13 5 FT	<i>1</i> 7 00 FT
DEPTH OF TOOLS	<i>5</i> 06 41 FT	<i>6</i> 20 84 FT	<i>7</i> 22 74 FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>5</i> 06 FEET	<i>6</i> 20 FEET	<i>7</i> 22 FEET
DEPTH START OF TOUR	<i>4</i> 02 FEET	<i>5</i> 06 FEET	<i>6</i> 20 FEET
FOOTAGE DRILLED	<i>1</i> 04 FEET	<i>1</i> 14 FEET	<i>1</i> 02 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	/											
ROTARY SPEED R.P.M.	<i>70</i>	<i>70</i>	<i>70</i>		<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>	<i>70</i>
WEIGHT ON BIT M lbs.	<i>10-15</i>	<i>10-15</i>	<i>8-10</i>		<i>10</i>	<i>10</i>	<i>10-15</i>	<i>10-15</i>	<i>10-15</i>	<i>10-15</i>	<i>10-15</i>	<i>10-15</i>
MUD WEIGHT (lb/gal)	/											
VISCOSITY sec/cst	<i>AIR DRILLING</i>			<i>PRE MIX 34 VIS.</i>				<i>AIR DRILLING</i>				
W.L.F.C. c.c./32nd	/											
pH	/											
MUD LEVEL IN TANKS Ft Ins	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	DEPTH	BIT CONNECTION
<i>2A</i>	<i>17 1/2</i>	<i>174095</i>	<i>OSC 13 R.H.P.</i>	<i>OPEN</i>	<i>482</i>	<i>19 3/4</i>	<i>402</i>	<i>722</i>	<i>320 1/4 4-5-1</i>

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT			
					PREFLOW	mins. I.H.P.	psi. I.H.P.	psi. Time

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
				Kind	Depth	Reading
DRILLER	<i>C. FRASER</i>	<i>K. CHRISTENSEN</i>	<i>ED KRAWCHUK</i>			
DERRICKMAN	<i>C. FRASER</i>	<i>D. DEWITT</i>	<i>J. FRASER</i>	<i>1 1/2" E</i>	<i>435</i>	<i>1/2</i>
HELPER	<i>K. SHIELDS</i>	<i>G. HABERER</i>	<i>L. CHERNIPESKI</i>	"	<i>465</i>	<i>1/2</i>
HELPER	<i>B. BOICE</i>	<i>W. FINLAY</i>	<i>A. BRENNER</i>	"	<i>485</i>	<i>1/2</i>
HELPER	<i>D. HARPLE</i>	<i>B. FINLAY</i>	<i>D. COLLINS</i>	"	<i>550</i>	<i>1/2</i>
FIREMAN				"	<i>620</i>	<i>3/8</i>
TOOL PUSHER				"	<i>674</i>	<i>1/4</i>

TOUR 1

TOUR 2
GEL

TOUR 3
GEL

Reg Ret

Mud Tank

Draw work

Engines

Pumps

Drill Pipe

Drill Collars

Rotary Tab

Travelling

Drilling

Light Bl

Boilers

Mud Tanks

B.O.P.

Hybrid M

and ma

Water

Fuel

WYRON SOBC W/ PART W/ YTO - 33

MUD & CHEMICALS ADDED			OTHER HOURLY OPERATING DETAIL WORK DONE		
TOUR	Kind	Amount	From	To	
19			12 00	12 15	MEAN T 870
TOUR 1			12 15	1 30	Drilling
52			1 30	1 45	SURVEY @ 435
			1 45	2 00	Drilling
67			4 00	4 15	SURVEY @ 435
			4 15	6 00	Drilling
02			6 30	6 45	SURVEY @ 435
4-1			6 45	8 00	Drilling
04					
			8 00	9 45	DRAG W/ 10 m
TOUR 2	GEL	2000 #	9 45	10 00	WORK PIPE CONN.
05			10 00	12 15	DRAG W/ 10 m
			12 15	12 45	SURVEY, RIG SERVICE WORK PIPE
			12 45	3 45	DRAG W/ 10 m
			3 45	4 00	SURVEY @ 620 3/4
74					
00					
74					
JR	GEL	1000 #	4 00	5 30	DRAG 17 1/2 HOLES W/ 10 m.
			5 34	5 45	WORK PIPE CONN
			5 45	7 30	DRAG W/ 10 m
			7 30	8 00	WORK PIPE CONN SURVEY RIG SERU
			8 00	10 00	DRAG 10-m
			10 00	10 15	WORK PIPE CONN
			10 15	10 45	DRAG W/ 10 m
			10 45	12 00	CIRU TO TRIP TRIP

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Foam details

Air 400 cfm
 Water 179 ppm
 Pressure 100 psi
 Sulfox 6 %
 Temp 70 °F

Rig Details

Mast: 131' Lee C Moore rated 510,000#, Substructure - 15 1/2" steel
 Draw works: Cardwell Model DA double drum - 36" Parkersbury hydraulic
 Engines: 2 Cat D 353TA - compounded - 720 H.P.
 Pumps: #1 - Nat C-350 (7 3/4 x 18), #2 C-250 (7 3/4 x 15) w/ 60 Truina Motors - 285 HP
 Drill Pipe: 4 1/2" Grade E w/ 6" O.D. Tool Joints - F.H.
 Drill Collars: 20 - 7" O.D. x 31' x 2 7/8" I.D. w/ 5" H-90 connections - 2 1/2"
 Rotary Table: 20 1/2" O.D. Well, Crown - 5 sheave - integral part of mast
 Travelling Blocks: 5 sheave O.D. well 80; Hooks: BI #4125; Swivel: Nat. No. 9
 Drilling Line: 1 1/8", Shaker: Link Belt NR M - 145 single
 Light Plants: 1 - Cat D 315, 30KW-AC, 1 - Cat D 311, 30KW-DC
 Boilers: 2 - 60 H.P. Napueez automatic & diesel fired
 Mud Tanks: 2 - 23' x 7 1/2' x 4' - capacity 353 bbls
 B.O.P.s: 12" - 900 Hydral GK, 12" - 900 Double Gate Shutter, Accumulator
 Hybrid Model 80 with dual remote controls; Nitrogen standby bottles
 and manual pump. Manifold on flare line outside sub base
 Water - 300 bbl capacity
 Fuel - 15000 gal capacity

L. F. Gumbly
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD: **CHEVRON** WELL NAME: **SOBC WH W PARKIN VT C-33** CONTRACTOR: **CONTRACTOR** RIG NO: **14**
 [] DRILLING [] DEEPENING [] COMPLETING [] REDRILLING [] ABANDONING [] REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **NOVEMBER 30 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.	
SINGLE	XO 7 7/8 P		467	NO XD	467			NO XD	467	
X OVER SUB	XO 10 O D									
OTHER	XO 6 3/4 D		302		302				302	
DRILL COLLARS	2 10" O D		6044	2 10"	6044			2-10	6044	
DRILL COLLARS	1 7" O D			7 7"	21695				27935	
REAMER	O D									
STABILIZER	O D		1405		1405				1405	
JARS										
BUMPER SUB										
BIT OR CORE BARREL									0	
TOTAL D.P. & TOOLS			28566		29913				36153	
KELLY DOWN (BELOW R.B.)			11		2100				4135	
DEPTH OF TOOLS			186		32013				40288	

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	186 FEET	320 FEET	402 FEET
DEPTH START OF TOUR	117 FEET	186 FEET	320 FEET
FOOTAGE DRILLED	69 FEET	134 FEET	82 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	AIR											
ROTARY SPEED	50	55	70	60	60-70	70	70	70	70			
WEIGHT ON BIT	204	204	20	10	10	10-12	10-12	10-12	10-12			
MUD WEIGHT	AIR	AIR	AIR	AIR	AIR	DRG.	AIR	DRG.				
VISCOSITY	AIR											
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	DEPTH	BIT CONNECTION
1A	17 1/2	17H095	OSC	W.H	OPEN	0	320		
A	17 1/2	17H095	OSC	IG Retip	OPEN	25	0	402	402

CORE No	DST No	FROM	TO	MUD ENGINEER'S REPORT								
				PREFLOW	min	I.H.P	psi	Time	psi	min	psi	
				FSI	min <td>F.H.P</td> <td>psi <td>F.F.P</td> <td>psi <td>Mud Wt</td> <td>lb Min</td> <td>lb</td> </td></td>	F.H.P	psi <td>F.F.P</td> <td>psi <td>Mud Wt</td> <td>lb Min</td> <td>lb</td> </td>	F.F.P	psi <td>Mud Wt</td> <td>lb Min</td> <td>lb</td>	Mud Wt	lb Min	lb
				VO	min <td>ISIP</td> <td>psi <td>G.T.S</td> <td>psi <td>Vis</td> <td>cp <td>FTS</td> </td></td></td>	ISIP	psi <td>G.T.S</td> <td>psi <td>Vis</td> <td>cp <td>FTS</td> </td></td>	G.T.S	psi <td>Vis</td> <td>cp <td>FTS</td> </td>	Vis	cp <td>FTS</td>	FTS
				FSI	min <td>F.SIP</td> <td>psi <td>FTS</td> <td>psi <td>AV</td> <td>psi <td>FTS</td> </td></td></td>	F.SIP	psi <td>FTS</td> <td>psi <td>AV</td> <td>psi <td>FTS</td> </td></td>	FTS	psi <td>AV</td> <td>psi <td>FTS</td> </td>	AV	psi <td>FTS</td>	FTS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	REGISTRATION RECORD
DRILLER	C. FRASER	K. CHRISTENSEN	E. KRAWCHUK	Kind: Wireline Depth: 390' Reading: 3/8
DERRICKMAN	K. FRASER	D. DEWITT	J. FRASER	Kind: Wireline Depth: 360' Reading: 3/8
HELPER	K. SHIBIDS	G. HABERER	L. CHERNIPESKI	
HELPER	J. BOICB	W. FINKAS	C. HILLGREN	
HELPER	J. MARYLO	B. FINKAS	A. BRENNER	
FIREMAN				
TOOL PUSHER				

TOUR 1
TOUR 2
TOUR 3

Foam R
Wat
Air
Dater
Poe
Min

Chevron WM W Purkin YT C-33

HOURS	MUD	CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
		Kind	Amount			
19 71				12 00	3 15	Drilling
				3 15	3 30	Survey @ 115'
				3 30	7 15	Drilling
				7 15	7 30	Survey @ 175'
				7 30	8 00	Drilling
<hr/>						
				8 00	10 00	DRLG WITH 10-12 m
				10 00	10 15	WORK PIPE TIGHT CONN.
				10 15	1 15	DRLG WITH 10-12 m
				1 15	1 45	CIRC WORK PIPE, SURVEY @ 280'
				1 45	3 00	RIG SERVICE.
				3 00	3 15	DRLG WITH 10-12 m
				3 15	4 00	WORK PIPE CONN.
				4 00	6 45	DRLG WITH 10-12 m.
				6 45	7 15	DRLG 17 1/2 HOLE W 10-12 m.
				7 15	9 00	CIRC WORK PIPE SURVEY @ 360
				9 00	9 15	RIG SERVICE
				9 15	11 30	DRLG w/ 10-12 m
				11 30	12 00	CIRC TO TRIP
						TRIP.
						CIRC WAIT FOR SORT.

CEMENTING TESTING, FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Foam Data

Water rate 179 gpm
 Air Rate 400 cfm
 Detergent Rate 0.05 %
 Pressure 100 psi
 Mixture Temperature 62 F out of foam generator

Signature
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

FIELD *Flagline Plains* WELL NAME

CONTRACTOR *G.P. Drilling* RIG NO. *141*

N 66° 12' 21" W 157° 21' 30"

DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

Nov 29/91

19

MUD CHEMICALS

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO. FT			
SINGLE <i>XO 7 7/8</i> D.P. NO. FT		<i>467</i> FT	<i>467</i> FT
X OVER SUB <i>XO 10</i> O.D. FT		<i>275</i> FT	
OTHER <i>10 6 3/4</i> D. FT		<i>302</i> FT	<i>302</i> FT
DRILL COLLARS <i>1 10</i> O.D. FT		<i>3063</i> FT	<i>6044</i> FT
DRILL COLLARS NO. FT			
REAMER O.D. KIND FT			
STABILIZER O.D. KIND FT			<i>1405</i> FT
JARS KIND FT			
BUMPER SUB FT			
BIT OR CORE BARREL FT			
TOTAL D.P. & TOOLS FT		<i>4107</i> FT	<i>8218</i> FT
KELLY DOWN (BELOW R.B.) FT		<i>4135</i> FT	<i>3572</i> FT
DEPTH OF TOOLS FT		<i>8242</i> FT	<i>11790</i> FT

TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR FEET		<i>82</i> FEET	
DEPTH START OF TOUR FEET		<i>0</i> FEET	
FOOTAGE DRILLED FEET		<i>82</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 PM
PUMP S.p.m. P.S.I.	/				/				/			
ROTARY SPEED R.P.M.					<i>50 50 50 50</i>				<i>50</i>			
WEIGHT ON BIT M.lbs.					<i>6-8 6-8 6-8 10-15</i>				<i>10-15</i>			
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.)	TOTAL HOURS	FROM	TO	BIT CONDITION
<i>1A</i>	<i>1 7/8</i>	<i>174095</i>	<i>H.W. OSC</i>	<i>OPEN</i>	<i>1 1/4</i>	<i>0</i>	<i>92 82</i>	<i>RUNNING</i>

CORE No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
				PREFLOW	MIN. F.H.P.	PSI. F.F.P.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
	Kind	Depth	Red. P.S.I.	Kind	Depth	Red. P.S.I.
DRILLER	<i>E. FRASEK</i>	<i>K. CHRISTENSEN</i>	<i>E. BRAUCHER</i>			
DERRICKMAN	<i>K. FRASEK</i>	<i>D. DEWITT</i>	<i>E. FRASEK</i>	<i>To 100</i>	<i>92</i>	<i>0</i>
HELPER	<i>K. SHAPIRO</i>	<i>C. HABERER</i>	<i>E. CHERNIPESKI</i>			
HELPER	<i>E. BOICK</i>	<i>W. FINLAY</i>	<i>C. HILLGREN</i>			
HELPER	<i>W. HARRIS</i>	<i>B. FINLAY</i>				
FIREMAN						
TOOL PUSHER						

1 1/2" VITON 5000 (1 PART) VTC-33.

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
19	Kind	Amount		
0	TOUR 1			
1			12:00	
2			7:15	
3			7:15	PORT DOWN DHEAD TO FLANGE
4			4:00	WELDING ON BLUE LINE
5				TIGHTEN BLUE LINE TO FLANGE
6				PICK UP 10" D/COLLAR.
7				
8				
9				
10				
11				
12				
13				
14				
15				
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99				
100				

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

SPUD 3.00 P.M. NOV. 29, 1971
 DRILL 17 1/2" WITH STIFF FOAM.

Drilling ... 504
 Permit No. 3354
 Ground Elevation 1683.2
 Full 2.7
 KB to Ground 12.3
 KB Elevation 1705.70

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G. P. Fraser** RIG NO. **141**
N 66° 12' 00" W 137° 00' 00" E
 LSD SEC TWP Rpt W

FIELD **Pack Plains** WELL NAME

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

N 66° 12' 00" W 137° 21' 50" E
 FOR 24 HOURS ENDING 12 MIDNIGHT **7/28/91**

19

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

TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET
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	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	11:30 PM	
PUMP spm p.s.i.												
ROTARY SPEED R P M												
WEIGHT ON BIT M lbs												
MUD WEIGHT lb. gal												
VISCOSITY sec qt												
W.L.F.C. cc. 32nd												
pH												
MUD LEVEL IN TANKS Ft. Ins												

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32	TOTAL HOURS	FROM	TO	REMARKS	BIT POSITION

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT		
TYPE		PREFLOW	mins. IHP	ps. IEP	ps. Time	ps. A.S.	
FROM		ISI	mins. FHP	ps. IEP	ps. Mud Wt	ps. Mud Wt	
TO		VO	mins. ISI P	ps. IETS	mins. Visc	W.L.F.C.	
Recovery		FSI	mins. FSI P	ps. IETS	mins. A.V.	ps. IETS	
HOURS		RECOVERY					

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
	Kind	Depth	Reading			
DRILLER	C. FRASER	K. CHRISTENSEN	ED KRAWCHUK			
DERRICKMAN	K. FRASER	D. DEWITT	D. FRASER			
HELPER	K. SHIP-105	E. HABERER	L. CHOROWSKI			
HELPER	B. BOGICA	W. FINLAY	A. BRENNER			
HELPER	D. HARSH	B. FINLAY	C. L.			
FIREMAN						
TOOL PUSHER						

McKON SOB U PAKED YTC-23

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount	12 ⁰⁰	8 ⁰⁰	
19				Pick up
DUR	TOUR			
1	FT			
2	FT			
3	FT			
4	FT			
5	FT			
6	FT			
7	FT			
8	FT			
9	FT			
10	FT			
11	FT			
12	FT			
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93	FT			
94	FT			
95	FT			
96	FT			
97	FT			
98	FT			
99	FT			
100	FT			
HOURS				
12:30 PM				

800

REPAIRING MUD GUNS IN TANKS
 THAWING OUT SAME. WELDING ON
 FLANGE ON CONDUCTOR PIPE.
 LAY BLUE LINE
 CHANGE HAND HOPE GASKETS IN
 NO 1 BOILER

WELD ON FLANGE PICK UP HEAD
 TIE DOWN SAME
 TIE DOWN BLUE LINE

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

SIGNATURE COMPANY ENGINEER

TOUR REPORT

Went Perkin CONTRACTOR **G.P. DRILLING** RIG NO **14**
W/ Porcupine N66-12 W137-23
 N 80° 12' 24" W 137° 21' 56"

WELL NAME: **W/ Porcupine** LSD: _____ SEC: _____ TWP: _____ R14: _____ W: _____
 DRILLING DEEPENING COMPLETING REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **Nov 27 1971**

MUD _____ CHEMICALS _____

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 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

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 sp.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 I.D.	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
TYPE		PREFLOW	mins. I.S.P.	ps. I.S.P.	ps. I.S.P.	min. V.W.	min. W.F.C.
FROM		I.S.P.	mins. F.H.P.	ps. F.H.P.	ps. F.H.P.	min. V.W.	min. W.F.C.
TO		V.O.	mins. I.S.P.	ps. G.T.S.	min. V.W.	min. W.F.C.	
RECOVERY		F.S.I.	mins. F.S.P.	ps. F.S.P.	min. A.V.		
HOURS		RECOVERY					

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	C. FRAGER	K. EHLICSTENSEN	F. KAWCHICK
DERRICKMAN	R. FRAGER	D. DEWIT	G. FIKASER
HELPER	K. FRAGER	G. HARBERER	L. CHENIEWSKI
HELPER	JAMES MARPLE	W. FINLAY	A. KRAEWEICZ
HELPER	BRIAN BOICE	B. FINLAY	
FIREMAN			
TOOL PUSHER	L. J. LINDBERG	L. LINDBERG	L. LINDBERG

1971
 HOUR
 FT
 FT
 FT
 FT
 FT
 FT
 FT
 FT
 FT
 FEET
 FEET
 FEET
 HOURS
 12:00 P.M.

MUD		CHEMICALS ADDED		From	To
Kind	Amount				
TOUR 1				12 ⁰⁰	
TOUR 2				8 ⁰⁰	10 ⁰⁰
TOUR 3				1 ⁰⁰	12 ⁰⁰

OTHER HOURLY OPERATING DETAIL
 WORK DONE

PUT UP D/LINE STABILIZER
 FINISH FREEZER UNIT LINE HOOR UP
 START # 2 PUMP MOTOR
 CLEAN UP E GEN. RIG UP.

Cleaning tank for water,
 put belly bars to gear;
 Sawer up.
 general rig up.

general rig up.

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

H. Bakker
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **C.P. Drilling** NO. **14**
 (SD) **N 66° 12' 01" W** TWP **5** R. **W**
W 137° 21' 56" **Sec 26 1/2** 19

FIELD **King's Plains** WELL NAME

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

MUD CHEMIC
 Mud

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		KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	FT.	KIND	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
 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	REMARKS	BIT CONDITION

CORE No.	No.	DST No.	FROM	TO	MUD ENGINEER'S REPORT		
TYPE		PREFLOW	mins. F.H.P.	ps. F.H.P.	ps. Time	ps. Wt	ps. Visc
FROM		ISI	mins. F.H.P.	ps. F.H.P.	ps. Mud Wt	ps. Visc	W.L.F.C.
TO		VO	mins. F.H.P.	ps. F.H.P.	mins. Visc	W.L.F.C.	
Recovery		FSI	mins. F.H.P.	ps. F.H.P.	mins. Visc	W.L.F.C.	
HOURS		RECOVERY					

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>C. FRASER</i>	<i>K. CHRISTENSEN</i>	<i>E. KRAWCHAK</i>	Kind	Depth	Reading
DERRICKMAN	<i>K. FRASER</i>	<i>D. DEWITT</i>	<i>S. FRASER</i>			
HELPER	<i>K. FRASER</i>	<i>C. HAWKINS</i>	<i>A. SHARIPORI</i>			
HELPER	<i>P. HAWKINS</i>	<i>W. FRASER</i>	<i>A. BRENNER</i>			
HELPER	<i>V. HAWKINS</i>	<i>B. FRASER</i>	<i>D. COLLINS</i>			
FIREMAN						
TOOL PUSHER	<i>Lee Hunsberg</i>					

CONCRETE SORE W.H. W. PARTS VTC-33.

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12:00	5:00	Hook up Block + pump lights Put up Block PREF. IRBS GEN RIG UP.
TOUR 2				Hook up Pump Heaters, SUB BASE HEATER ACC HOUSE, PREFABING IN FRONT OF SUB, PLUGGING HOLES HOOK UP REFRIGERATION UNIT GEN TAKING AROUND LEASE
TOUR 3				PREFAB MUD HOUSE & PREFAB BACK OF FLOOR. GEN RIG UP.

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

McBaker
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P. Drilling* RIG NO *1A*

FIELD *Anglo Plains* WELL NAME

NSD 66° SEC 12' TWP 04" S
R14 W
28' 50" 25/1

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

19

Charlow
MUD CHEMICALS

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

TOUR
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	/											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	JET SIZES IN 1/32"	TOTAL HOURS	FROM	TO	REMARKS	BIT LOCATION

CORE	No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT					
TYPE			PREFLOW	mins	FHP	ps	FEP	ps	Time	WAT	AK
FROM			ISI	mins	FHP	ps	FEP	ps	Mod Wt	Int. Gas	10 Min. Gr
TO			VO	mins	ISI P	ps	GTS	mins	Vis	W.C.F.C	
Recovery			F.S.I	mins	F.S.I P	ps	F.T.S	mins	A.V	p.H	
HOURS			RECOVERY						P.V	Start	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>G. TRASK</i>		<i>Ed Krawczyk</i>	Kind	Depth	Reading
DERRICKMAN	<i>K. TRASK</i>		<i>Donald J. Travers</i>		0	
HELPER	<i>K. Shields</i>		<i>L. Chermanski</i>			
HELPER	<i>B. Boich</i>					
HELPER	<i>J. Maffia</i>					
FIREMAN						
TOOL PUSHER						

CHARTER SOBC WM W. PARKER YTC-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

19 DUR FT FT FT FT FT FT FT FT FT FT FT FT FT FT FT R FEET FEET FEET HOURS 12:00 P.M.	MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
	Kind	Amount			
	TOUR		8:00	4:00	GEN RIG UP.
	TOUR 2				
	TOUR 3				GEN RIG UP

CEMENTING TESTING FISHING SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR

C.P. Drilling NO 14

FIELD *Logg's Plains* WELL NAME

- DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

A LSD 66° SEC 12' TWP 09' R14
 W 137° 27' 50" 102 24/41

FOR 24 HOURS ENDING 12 MIDNIGHT

19

CHERROW

MUD CHEMICALS

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 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

TOUR

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											
	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>spm</i>												
ROTARY SPEED <i>RPM</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 1/32	TOTAL HOURS	FROM	TO	FEET	BIT CONDITION

CORE No	No	DST No	FROM	TO	MUD ENGINEER'S REPORT			
TYPE		PREFLOW	mins	IHP	psi	IHP	psi	Time
FROM		ISI	mins	FHP	psi	FHP	psi	Mud Wt
TO		V.O.	mins	ISIP	psi	GTS	mins	Visc
Recovery		FSI	mins	FSIP	psi	FIS	mins	A.V
HOURS		RECOVERY						P.V

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
	Kind	Depth	Reading	
DRILLER	<i>H. FRASER</i>	<i>ED KRASOVIK</i>	<i>K. CHRISTENSEN</i>	
DERRICKMAN	<i>H. FRASER</i>	<i>B. KRASOVIK</i>		
HELPER	<i>K. SHIELDS</i>	<i>L. CHERNICKI</i>		
HELPER	<i>B. COOPER</i>	<i>ODD DEWITT</i>		
HELPER	<i>J. MARPLE</i>	<i>A. BRANNER</i>		
FIREMAN				
TOOL PUSHER				

CHEVRON SOBC WM W. PART. IN YR C-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

MUD & CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
19				
OUR	TOUR	5:00	6:00	GEN. RIG UP.
FT				
FT				
FT				
FT				
FT				
FT	TOUR 2			
FT				
FT				
FT				
FT				
FT				
FT	TOUR 3			GEN. RIG UP. RIGGING UP BOILERS MAKING STEAM LINES.
FEET				
FEET				
FEET				
HOURS				
12:00 P.M.				

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G.P.* RIG NO. *14*

FIELD *Lagb Plains* WELL NAME *N* LSD *66°* SEC *12* TWP *014"* Rgr. *W*
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT *4/10 23/71* 19

CHEVRO
MUD ... CHEMICAL

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 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)						FT					FT					FT
DEPTH OF TODLS						FT					FT					FT

TOUR
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 <i>S.P.M. 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>	/	/	/	/	/	/	/	/	/	/	/	/
pH												
MUD LEVEL IN TANKS <i>Ft. Ins.</i>												

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				
TYPE		PREFLOW	mins	F.H.P.	psi	F.P.P.	psi	Time	AM
FROM		ISI	mins	F.H.P.	psi	F.P.P.	psi	Mud Wt	PM
TO		VO	mins	F.H.P.	psi	F.P.P.	psi	W.L.F.C.	
Recovery		F.S.I	mins	F.H.P.	psi	F.P.P.	psi	AV	
HOURS		RECOVERY						P.V	

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD		
DRILLER	<i>K. Hansen</i>	<i>X. CHRISTENSEN</i>		Kind	Depth	Reading
DERRICKMAN	<i>K. Hansen</i>					
HELPER	<i>K. Smith</i>					
HELPER	<i>B. Boyer</i>	<i>W. FINLEY</i>				
HELPER	<i>D. Stangle</i>	<i>B. FINLEY</i>				
FIREMAN						
TOOL PUSHER						

CHEVRON SOBC WIL W PARTIAL YTC-33

OTHER HOURLY OPERATING DETAIL
WORK DONE

19
OUR
FT.
FT.
FT.
FT.
FT.
FT.
FT.
FT.
FT.
FT.
FT.
FT.
R
FEET
FEET
FEET
HOURS
12 00 P.M.

MUD & CHEMICALS ADDED		From	To
Kind	Amount		
TOUR			
TOUR 2			
TOUR 3			

Good Rig up.

LAD WALKS, SPOT LIGHT PLANT, WATER TANK, MUD TANK, PUMPS, WELDER WORKING ON SUB, PIPE FITTING RIGS.

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

PORT
GPI
Reading

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P.** RIG NO **14**

FIELD **Eagle Plains** WELL NAME **N** LSD **66°** SEC **12'** TWP **04"** Rpt **W**
 DRILLING DEEPENING COMPLETING **W** **137°** **24'** **50"**
 REDRILLING ABANDONING REWORKING FOR 24 HOURS ENDING 12 MIDNIGHT **Nov 02 1971**

Chem
MUD CHEMICAL

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.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

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												

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

CORE NO.	ML	No	DST No	FROM	TO	MUD ENGINEER'S REPORT					
TYPE			PREFLOW	mins	FHP	ps	FEP	ps	Time	AM	AK
FROM			ISI	mins	FHP	ps	FEP	ps	Mud Wt	10	Men
TO			VO	mins	FHP	ps	FEP	ps	Visc	W	Men
Recovery			FSI	mins	FHP	ps	FEP	ps	AV	pH	
HOURS			RECOVERY						PV		

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	G. FRASER	K. CHRISTENSEN	
DERRICKMAN	K. FRASER		
HELPER	K. SHIELDS		
HELPER	D. BOECK	W. FINALEY	
HELPER	J. MARPLE	B. FINALEY	
FIREMAN			
TOOL PUSHER	Tim Lundberg		

Chevron SOBC WM W Parkin YTC-33

MUD CHEMICALS ADDED		OTHER HOURLY OPERATING DETAIL	
Kind	Amount	From	To
1971			
UR	TOUR 1		
FT			ASSEMBLE DERRICK & PIN SAME PUT ON MONKEY BOARD, LAD PUMP MATTING, SPOT TOOL HOUSE & DOG HOUSE GENERAL RIG UP. ONE MAN CLEANING OLD LEASE, ONE MAN @ RIG 15.
FT			
FT			
FT			
FT			
FT			
FT			
FT			
FT			
FT			
FT	TOUR 2		GEN RIG UP.
FT			
FT			
FT			
FT			
FT			
FT			
FT			
FT			
FT			
FT	TOUR 3		
FEET			
FEET			
FEET			
HOURS			
12 00 P M			

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

L. J. [Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR **G.P** RIG NO **14**

FIELD **Eagle Plains** WELL NAME

N 137° 22' W 66° 12' TWP

Rip W

DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

FOR 24 HOURS ENDING 12 MIDNIGHT

Nov 21 1971

Che

MUD CHEMIC

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.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 SUR .. 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

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.	4:30 P.M.	6:30 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	/											

Cur W

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

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

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER		<i>C Fraser</i>	<i>K Christensen</i>
DERRICKMAN		<i>H Fraser</i>	
HELPER		<i>A Shields</i>	
HELPER		<i>B Baize</i>	
HELPER		<i>J Murrpley</i>	
FIREMAN		<i>D Collins</i>	
TOOL PUSHER	<i>Joe Lundberg</i>	<i>L Chertnyeski</i>	

Chevron SOBC WM w Parkia YT C-33

19 71	MUD	CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
		Amount			
	TOUR 1				
FT					
FT					
FT					
FT					
FT					
FT					
	TOUR 2		8 ⁰⁰ AM	6 ⁰⁰ PM	Finish planning sub, spot sub a level. Put drawworks on sub and bolt down. Unload top half of derrick and pin botm half. Dig ditch in front of sub base to dump
FT					
FT					
FT					
FT					
FT					
FT					
FT					
	TOUR 3				
FEET					
FEET					
FEET					
HOURS					
12:00 P.M.					

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Cut work

Winch cut #74 A 269 - helping to rig up


 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G. P. Drilling* RIG NO *Rig #14*

FIELD _____ WELL NAME _____ N 137° W ESD 66° SEC 12' TWP 22' R. 1 W. Nov 20 1971

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS D.P. NO	FT	FT	FT
SINGLE D.P. NO	FT	FT	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 NO
REAMER O.D. KIND	FT KIND	FT KIND	FT KIND
STABILIZER O.D. KIND	FT KIND	FT KIND	FT KIND
JARS O.D. KIND	FT KIND	FT KIND	FT KIND
BUMPER SUB O.D. KIND	FT KIND	FT KIND	FT KIND
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	FEET
DEPTH START OF TOUR	FEET	FEET	FEET
FOOTAGE DRILLED	FEET	FEET	FEET

DAY WORK	HOURS	HOURS	HOURS
	2:30 AM - 4:00 AM	4:00 AM - 12:00 AM	12:00 AM - 2:00 AM

PUMP	PSI	
ROTARY SPEED	R.P.M.	
WEIGHT ON BIT	WT. lbs	
MUD WEIGHT	lb/gal	
VISCOSITY	sec/cp	
W.L.F.C.	32nd	
pH		
MUD LEVEL IN TANKS	FT. lbs	

NO.	SIZE	SERIAL	BE. KIND AND TYPE	EST. USED	DATE	REMARKS

CORE NO.	NO.	DATE	FROM	TO	RECOVERY	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C Fraser</i>		
DEWELDER	<i>R Fraser</i>		
HELPER	<i>K S Fields</i>		
HELPER	<i>B Boice</i>		
HELPER	<i>J Marples</i>		
HELPER	<i>D Gaiter</i>		
HELPER	<i>L Chernoposki</i>		

Ch...
MUD ...
Cat...
W...
used
Ca...

TOUR REPORT

CONTRACTOR **G D**
 FIELD **Eagle Plains** WELL NAME
 LSD **66°** SEC **12'** WP
W **137°** **22'**

RIG NO **14**
 Nov 19 1971

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				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 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

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

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:30 A.M.	9:30 A.M.	12:00 A.M.	2:00 P.M.	4:30 P.M.	7:00 P.M.	9:30 P.M.	12:00 A.M.	2:00 A.M.	4:30 A.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	REPAIRS	TOTAL HOURS	REMARKS

CORE No	No	Net	DST No	PREV	TO	REMARKS
TYPE			PREFLOW	MIN	STEP	
FROM			1ST	MIN	STEP	
TO			V.O.	MIN	STEP	
RECOVERY			F.S.T.	MIN	STEP	
HOURS			RECOVERY			

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER		<i>C. Eraser</i>	
DERRICKMAN		<i>K. Eraser</i>	
HELPER		<i>K. Shields</i>	
HELPER		<i>B. Boice</i>	
HELPER		<i>L. Chernipesti</i>	
FIREMAN		<i>D. Collins</i>	
TRUCK DRIVER	<i>Ken Lumberg</i> <i>D. Teyscamp</i>	<i>MacPles</i>	

TOUR 1
 TOUR 2
 TOUR

Cat

Chevron 503C W/M W PARKIN UT C-33

OTHER HOURLY OPERATING DETAIL WORK DONE

1971	MUD	CHEMICALS ADDED	From	To
	Type	Amount		
OUR	TOUR 1			
FT				
FT				
FT				
FT				
FT				
FT				
FT				
FT	TOUR 2		8:00 AM	
FT				
FT			6:00 PM	
FT				
FT				
FT				
FT				
FT	TOUR 3			
FEET				
FEET				
FEET				
HOURS				
2:30 PM				

Level lease, lay plywood, plastic, and styrofoam under matting, Put matting in place

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

Cut Work

Winch cat # 74A269 - helping to rig up.

[Signature]
 SIGNATURE COMPANY EMPLOYEE

TOUR REPORT

CONTRACTOR

C.P. Drilling RIG NO 14

FIELD _____ WELL NAME _____
 DRILLING DEEPENING COMPLETING
 REDRILLING ABANDONING REWORKING

N *W* *66°* *137°* *19'* *22'* TWP _____

FOR 24 HOURS ENDING 12 MIDNIGHT

Nov 18 1971

Cleveland

MUD _____

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

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 AM	4:00 AM	6:30 AM	8:30 AM	12:00 AM	2:00 PM	4:00 PM	6:00 PM	8:00 PM	10:00 PM	12:00 AM
PUMP S.P.M. / P.S.											
ROTARY SPEED R.P.M.											
WEIGHT ON BIT M.tons											
MUD WEIGHT lb/gal											
VISCOSITY sec/cf											
W.L.F.C. 32nd											
pH											
MUD LEVEL IN TANKS Ft. Ins.											

NO.	SIZE	SERIAL	BIT KIND AND TYPE	ET. USED	RECOVERED	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	<i>C. Fraser</i>		
DEERING MAN	<i>K. Fraser</i>		
HELPER	<i>K. Shields</i>		
HELPER	<i>B. Boree</i>		
HELPER	<i>L. Chernycki</i>		
FIREMAN	<i>D. Collins</i>		
TOUR REPORT	<i>D. Tevenscamp</i>		

*Cement
 Cement
 Rat hole
 1 perc
 11:00 am -
 1:00 pm - 5
 3:00 pm -
 5:00 pm - 6*

*Lat
 Wind*

CHEVRON OBC W M W Parkin YT C-33

1971		MUD CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Hour	Feet	Name	Amount			
TOUR 1						
TOUR 2			2 ⁰⁰ / _{AM}	6 ⁰⁰ / _{PM}		Rig up camp - cemented in conductor barrel - built cellar cribbing.
TOUR 3						

CEMENTING TESTING FISHING SPECIAL JOB DETAILS INCLUDING ENGINEERING SUMMARIES

+6° F

Cemented conductor 661 with 120 sack of permafrost cement.

Rat hole diggers:

Operator Glen Hillands

Helper Keith Ret h

8 ⁰⁰/_{AM} - 11 ⁰⁰/_{AM} - Cement conductor 661

11 ⁰⁰/_{AM} - 1 ⁰⁰/_{PM} - Work on rathole - dug to 22'

1 ⁰⁰/_{PM} - 5 ⁰⁰/_{PM} - Work on mousehole - dug 15'

5 ⁰⁰/_{PM} - 5 ³⁰/_{PM} - Clean up

5 ³⁰/_{PM} - 6 ⁰⁰/_{PM} - Return to Parkin.

Cat Work

Winch Cat # 74 A 2697. helping to rig up.

E. F. Gumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *G P Drilling* RIG NO *1-1*

FIELD *Eagle Plains* WELL NAME *N*

DRILLING DEEPENING COMPLETING

REDRILLING ABANDONING REWORKING

LSD *66°* SEC *12'* TWP *W*

137° *22'*

R.D. *W*

FOR 24 HOURS ENDING 12 MIDNIGHT *Nov 17 1981*

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		KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	FT	KIND	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 AM	4:00 AM	6:00 AM	8:00 AM	10 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	BIT SIZES (IN.)	FEET PER HOUR	FROM	TO	REMARKS

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER		<i>C Fraser</i>	
DEGRAD KIVAN		<i>K Fraser</i>	
HELPER		<i>K Shields</i>	
HELPER		<i>B Boyce</i>	
HELPER		<i>L Champorki</i>	
FIREMAN		<i>D Collins</i>	
TOOL WASH	<i>D Tegenscamp</i>		

Put hole
6:30
Help
12:00
11:00
4:00 PM
5:00
6:00
Coal
Set
Top
cut

Cherron 503 C W M W Parkin VT C-33

OTHER HOURLY OPERATING DETAIL WORK DONE

1971	MUD	CHEMICALS	MUDD	Amount	From	To
TOUR	TOUR 1					
FT						
FT						
FT						
FT						
FT						
FT	TOUR 2					
FT				8 ¹⁰ AM		
FT						
FT					6 ⁰⁰ PM	
FT						
FT						
FT						
FT						
FT	TOUR 3					
FEET						
FEET						
FEET						
HOURS						
12:00 PM						

Setting up camp and setting conductor pipe

CEMENTING, TESTING, ETC. DETAIL WORK INCLUDING ENGINEERING DRAWINGS - 25° clear

Rat hole diggers

Operator Glen Hollander
 Helper Keith Keith

- 11 ⁰⁰ AM - 11 ³⁰ AM - Move to base
- 11 ³⁰ AM - 4 ⁰⁰ PM - Setting conductor bbl
- 4 ⁰⁰ PM - 5 ⁰⁰ PM - Rig up
- 5 ⁰⁰ PM - 10 ⁰⁰ PM - Digging 16" rat hole
- Conductor Hole - 12" at 30' hole 11' at 24' hole

Set 19" conductor bbl (51.10') at 49' ground level reference
 Top 25' of barrel equipped with rotary cutting bits.

Cut work

Winch cat # 74 A 2697 - 10 hrs - helping to set up camp and stand by

[Signature]
 SIGNATURE COMPANY ENGINEER