

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
M 1															
M 2															
M 3															
M 4															
M 5															
M 6															
M 7															
M 8															
M 9															
M 10															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
H 1															
H 2															
H 3															
H 4															
H 5															
H 6															
H 7															
H 8															
H 9															
H 10															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
A 1															
A 2															
A 3															
A 4															
A 5															
A 6															
A 7															
A 8															
A 9															
A 10															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
O 1															
O 2															
O 3															
O 4															
O 5															
O 6															
O 7															
O 8															
O 9															
O 10															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
P 1															
P 2															
P 3															
P 4															
P 5															
P 6															
P 7															
P 8															
P 9															
P 10															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
MUD															
4 PM															
8 PM															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
DRILLING LINE RECORD															
NO.															
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED HRS	REAMED HRS	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.	DEPTH
BOP															
TESTED															
ENGINE SHUT OFF CHECKED															
KELLY COCK CHECKED															
FUEL ON HAND 11:30 AM															
FUEL ON HAND 11:30 PM															
FUEL USED															

REMARKS  
 Any down hole time  
 No mud at 11:30 AM  
 Mud starts at 11:30 AM  
 Mud - 11:30 AM  
 K.O.C.  
 4/10/71 28

DRILLER'S SIGNATURE  
 DATE 4/10/71

CLEAN MILD TANKS  
 FINISH AS WELL AS  
 CAPD AW. TANKS  
 4/10/71

DESILTER HRS OP  
 DESILTER HRS OP  
 SURVEYS  
 DEPT  
 DEPTH

CASING REPORT  
 PAIN & GEM  
 115  
 DATE  
 TIME  
 APPROVED OPERATOR  
 APPROVED TOOLPUSHER  
 WATER COST  
 CONS. BD COPY

# GUSTAVSON DRILLING (1964) LTD.

RIG NO. 11

WELL *Paula Phillips*

ETA 12-19-74 No. 10515

DAYS FROM SPUD 16 MAILING ADDRESS

ROAD CONDITIONS

WEATHER

DATE

APRIL 19 1974

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS		NO	Q.D.	L.S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME
							HRS	DEPT.									
M	B														Testing	1:00	2:30
H	I														1000	12:00	1:00
N	S														1000	12:00	1:00
G	L														1000	12:00	1:00
T	H														1000	12:00	1:00
O	A														1000	12:00	1:00
A	M														1000	12:00	1:00
M	A														1000	12:00	1:00
M	A														1000	12:00	1:00

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME	
																					DEPT.
1	12 MM	WT	W.L.	PH	P.V.	Y.P.	SOUNDS	NO.	PUMP	HRS.	NO.	PUMP	HRS.	S.P.M.	T	B	G				
MUD: 4 PM																					
WATER ADDED: DESILTER - HRS OP																					
MUD ADDITIVES: U.FLOW																					
SURVEYS																					

DRILLING RECORD	NO.	SIZE	MAKE	NO LINES	TRIPS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	SLIP ON CUT	NEAT SLIP	NEXT SLIP	DRILL COLLARS	NO	Q.D.	L.S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME	
																							DEPT.
1	12	MM																					
MUD: 8 AM																							
WATER ADDED: DESILTER - HRS OP																							
MUD ADDITIVES: U.FLOW																							
SURVEYS																							

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

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																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

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																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

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																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	PUMP	NO.	PUMP	S.P.M.	T	B	G	REMARKS	START TIME	STOP TIME		
																					DEPT.	
1	12	NOON																				
MUD: 4 PM																						
WATER ADDED: DESILTER - HRS OP																						
MUD ADDITIVES: U.FLOW																						
SURVEYS																						

NO.	SIZE
-----	------







GUSTAVSON DRILLING (1964) LTD

RIG NO 11

WELL Pacific PETE BEAL

Rock River

F 3717 DATE APRIL 16 1972

NO 10814

DAVS FROM SPUD 6.3 MAILING ADDRESS # Days 96

ROAD CONDITIONS

WEATHER

FROM	TO	FOOTAGE	HRS ON TOP	HRS ON BOTTOM	TONS	STANDS	5' SINGLES	DRILL COLLARS	NO	OD	ID	LENGTH	WT	5" HELL	11" HELL	REMARKS	START	STOP	INITIALS
1020	1120	100	8	39	10380.1	11	1	21	6 1/4	3 3/4	643 1/4	1143	15	100	200	100	100	100	100
<p>1000 SHUT IN (INITIAL) 100 200 1</p> <p>1000 SHUT IN (INITIAL) 200 300 1</p> <p>1000 SHUT IN (INITIAL) 300 800 5</p>																			
<p>PULL OUT DST #2</p> <p>PULL OUT DST #2</p> <p>REMARKS: PULL OUT DST #2</p> <p>DRILLER'S SIGNATURE: [Signature]</p>																			
<p>DRILLING LINE RECORD: 14 WRI 8 39 234 10380.1</p> <p>DRILL NO: 1020 TO: 1120</p> <p>TYPE: TD</p> <p>WATER ADDED: DESILTER: HRS OP</p>																			
<p>DRILLING LINE RECORD: 14 WRI 8 39 234 10380.1</p> <p>DRILL NO: 1020 TO: 1120</p> <p>TYPE: TD</p> <p>WATER ADDED: DESILTER: HRS OP</p>																			





Gustavson Arctic Drilling Company

RIG NO 11

WELL Pacific Petroleum Ref. Rivie

DATE April 14, 1972

NO 10812

DAYS FROM SPUD 61 MAILING ADDRESS 5 Days - 94

ROAD CONDITIONS

WEATHER 15° + light snow.

FROM	TO	FOOTAGE	HRS ON BT	DRILL	NO	DEG	DEPTH	START	STOP	NVL
1050	TD			COLLARS	21	6 3/4	2 1/2	11:43	12:15	
1100	9 1/2 X 16	3 1/2	HR	EXTENSION						
1100	9 1/2 X 16	3 1/2	HR	EXTENSION						
1100	9 1/2 X 16	3 1/2	HR	EXTENSION						
1100	9 1/2 X 16	3 1/2	HR	EXTENSION						

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	REAMED	HRS	REMARKS	START	STOP	NVL
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	11:00	11:15	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	11:15	11:30	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	11:30	11:45	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	11:45	12:00	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	REAMED	HRS	REMARKS	START	STOP	NVL
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	12:00	12:15	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	12:15	12:30	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	12:30	12:45	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	12:45	1:00	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	REAMED	HRS	REMARKS	START	STOP	NVL
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	1:00	1:15	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	1:15	1:30	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	1:30	1:45	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	1:45	2:00	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	REAMED	HRS	REMARKS	START	STOP	NVL
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	2:00	2:15	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	2:15	2:30	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	2:30	2:45	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	2:45	3:00	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	REAMED	HRS	REMARKS	START	STOP	NVL
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	3:00	3:15	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	3:15	3:30	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	3:30	3:45	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	3:45	4:00	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	REAMED	HRS	REMARKS	START	STOP	NVL
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	4:00	4:15	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	4:15	4:30	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	4:30	4:45	
1050	10 1/2	WT	PH	PV	100	100	100	100	MAKE UP TEST TOOL	4:45	5:00	

DRILLING RECORD

NO. 1050

SIZE 10 1/2

TYPE WT

JETS PH PV

SERIAL WT

WT. R.P.M.

REAMED HRS

REMARKS

START STOP NVL

DESILTER HRS OP

U FLOW

DEG DEPTH

SURVEYS

DRILLER'S SIGNATURE

REMARKS

Rig size 1800's

Run in to clean hole

Wash 3 single bit bottom

Curve cement hole

Run to test

400 sm 1

500 600 1

600 1000 4 1/2

1030 1000 4

11:00 12:00 1

APPROVED OPERATOR

APPROVED TOOLPUSHER

WATER COST

CONS. BD. COPY

Gustavson Arctic Drilling Company RIG NO. 11 WELL Pacific 102 RTA Pool River VT E-37 DATE April 13 1972 NO 10111

DAYS FROM SPUD 60 MAILING ADDRESS 54 Days 92 ROAD CONDITIONS WEATHER 40 +

TIME	START	STOP	REMARKS
			Logging by Schlumberger 1200
			See log.

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1001	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1002	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1003	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1004	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1005	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1006	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1007	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COLLARS	HRS	REAMED	HRS	NO.	OD	ID	LENGTH	WT AIR
1008	1 1/2"	TD			10343.75	75	DRILL COLLARS	21	6 3/4	276	16857	6 3/4	276	16857	16.75

Logging by Schlumberger 2011  
 Hauled by drill collars & mud material  
 HELP UNLOAD AT PEK RIVER STAKE SITE

Run bearing - 142g 74as - Total  
 bearing in - 142g 74as  
 Logging & Survey  
 Run in to break till  
 bearing in - 142g 74as

APPROVED OPERATOR: [Signature]  
 APPROVED TOOLPUSHER: [Signature]

CASING REPORT: RAN 8 CEM 25  
 PLUG DOWN: 25  
 DATE: [Date]  
 APPROVED OPERATOR: [Signature]  
 APPROVED TOOLPUSHER: [Signature]













FROM	TO	FOOTAGE	HRS ON DRILL	PISTON	COLLARS	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
106698	10701	35	35	1200	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
8 AM	12 NOON																				

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
24	8 3/4"	H88	3 1/2	912801	40	50	273	001	0701	2	190	110	2	3	1						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10698	10701	3	3	127	1600	1	1600	1	1600	1	1600	1	1600	1	1600	1	1600	1	1600	1	1600

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
24	8 3/4"	H88	3 1/2	912801	40	50	273	001	0701	2	190	110	2	3	1						

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10701	10711	26	26	10024	1	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10711	10721	26	26	10024	1	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10721	10731	26	26	10024	1	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10731	10741	26	26	10024	1	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10741	10751	26	26	10024	1	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLER	HRS	REARED	HRS	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.	DRILL	NO.
10751	10761	26	26	10024	1	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639	1	1639

Checked all fine investigations  
 Seen all valves on ROP & manifold  
 Dalg 234 Hole  
 Sukuy 11701  
 Pull out at 424 (5km) 830 100 5  
 Clendon Sukuy (Kandwood) 100  
 Run in D  
 at hole of DA King  
 Run in Hole w/ 12" 25 30 400  
 2/4/107 271 Derrick  
 2/4/107 1  
 2/4/107 1

Checked all fine investigations  
 Seen all valves on ROP & manifold  
 Dalg 234 Hole  
 Sukuy 11701  
 Pull out at 424 (5km) 830 100 5  
 Clendon Sukuy (Kandwood) 100  
 Run in D  
 at hole of DA King  
 Run in Hole w/ 12" 25 30 400  
 2/4/107 271 Derrick  
 2/4/107 1  
 2/4/107 1

Checked all fine investigations  
 Seen all valves on ROP & manifold  
 Dalg 234 Hole  
 Sukuy 11701  
 Pull out at 424 (5km) 830 100 5  
 Clendon Sukuy (Kandwood) 100  
 Run in D  
 at hole of DA King  
 Run in Hole w/ 12" 25 30 400  
 2/4/107 271 Derrick  
 2/4/107 1  
 2/4/107 1

Checked all fine investigations  
 Seen all valves on ROP & manifold  
 Dalg 234 Hole  
 Sukuy 11701  
 Pull out at 424 (5km) 830 100 5  
 Clendon Sukuy (Kandwood) 100  
 Run in D  
 at hole of DA King  
 Run in Hole w/ 12" 25 30 400  
 2/4/107 271 Derrick  
 2/4/107 1  
 2/4/107 1

Checked all fine investigations  
 Seen all valves on ROP & manifold  
 Dalg 234 Hole  
 Sukuy 11701  
 Pull out at 424 (5km) 830 100 5  
 Clendon Sukuy (Kandwood) 100  
 Run in D  
 at hole of DA King  
 Run in Hole w/ 12" 25 30 400  
 2/4/107 271 Derrick  
 2/4/107 1  
 2/4/107 1

Checked all fine investigations  
 Seen all valves on ROP & manifold  
 Dalg 234 Hole  
 Sukuy 11701  
 Pull out at 424 (5km) 830 100 5  
 Clendon Sukuy (Kandwood) 100  
 Run in D  
 at hole of DA King  
 Run in Hole w/ 12" 25 30 400  
 2/4/107 271 Derrick  
 2/4/107 1  
 2/4/107 1

MAILING ADDRESS: 5445 86 ROAD CONDRIENS

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
0538	10 1/2	H-88	3/16	92207	4000	50	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
24	8 3/4	H-88	3/16	92207	4000	50	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
115	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
110	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
0535	10 1/2	H-88	3/16	92207	4000	50	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
24	8 3/4	H-88	3/16	92207	4000	50	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
112	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
110	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
106	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
103	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
102	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
101	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
100	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
99	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
98	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
97	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS	NO.	DRILL	REARMS	HRS
96	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12
95	2 1/4	30	3/16	54	51	84	COLIANS	21	6 3/4	2 1/8	47384	19 1/2	12	19 1/2	12	19 1/2	12

Remarks: Sewer Rig & R.O.P. 1200 1205 4 1205 2000 7 3/4

Remarks: 2 1/4 Hole R.O.P. 24 Consideration Board & R.O.P. 4 motor shut off. OK. 945 1400 6 1/4 1900 110 6

Remarks: 2 1/4 Hole R.O.P. 24 Consideration Board & R.O.P. 4 motor shut off. OK. 945 1400 6 1/4 1900 110 6

Remarks: 2 1/4 Hole R.O.P. 24 Consideration Board & R.O.P. 4 motor shut off. OK. 945 1400 6 1/4 1900 110 6

Remarks: 2 1/4 Hole R.O.P. 24 Consideration Board & R.O.P. 4 motor shut off. OK. 945 1400 6 1/4 1900 110 6







DAYS FROM SPUD 51 MAILING ADDRESS HEAD EXPOSITIONS WEATHER

NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	REAMED	REMARKS
22	8 3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
21	6 3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
20	4 3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
19	3 3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
18	2 3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
17	1 3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
16	1 1/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
15	1 1/8	YSFR	3-1/4	33508	50	50	273	334	1900 110
14	1 1/16	YSFR	3-1/4	33508	50	50	273	334	1900 110
13	3/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
12	1/2	YSFR	3-1/4	33508	50	50	273	334	1900 110
11	1/4	YSFR	3-1/4	33508	50	50	273	334	1900 110
10	1/8	YSFR	3-1/4	33508	50	50	273	334	1900 110
9	1/16	YSFR	3-1/4	33508	50	50	273	334	1900 110
8	1/32	YSFR	3-1/4	33508	50	50	273	334	1900 110
7	1/64	YSFR	3-1/4	33508	50	50	273	334	1900 110
6	1/128	YSFR	3-1/4	33508	50	50	273	334	1900 110
5	1/256	YSFR	3-1/4	33508	50	50	273	334	1900 110
4	1/512	YSFR	3-1/4	33508	50	50	273	334	1900 110
3	1/1024	YSFR	3-1/4	33508	50	50	273	334	1900 110
2	1/2048	YSFR	3-1/4	33508	50	50	273	334	1900 110
1	1/4096	YSFR	3-1/4	33508	50	50	273	334	1900 110

NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	REAMED	REMARKS
10316	5 1/2	YSFR	3-1/4	33508	50	50	273	334	1900 110
10317	4 1/2	YSFR	3-1/4	33508	50	50	273	334	1900 110
10318	3 1/2	YSFR	3-1/4	33508	50	50	273	334	1900 110
10319	2 1/2	YSFR	3-1/4	33508	50	50	273	334	1900 110
10320	1 1/2	YSFR	3-1/4	33508	50	50	273	334	1900 110
10321	1 1/8	YSFR	3-1/4	33508	50	50	273	334	1900 110
10322	1 1/16	YSFR	3-1/4	33508	50	50	273	334	1900 110
10323	1 1/32	YSFR	3-1/4	33508	50	50	273	334	1900 110
10324	1 1/64	YSFR	3-1/4	33508	50	50	273	334	1900 110
10325	1 1/128	YSFR	3-1/4	33508	50	50	273	334	1900 110
10326	1 1/256	YSFR	3-1/4	33508	50	50	273	334	1900 110
10327	1 1/512	YSFR	3-1/4	33508	50	50	273	334	1900 110
10328	1 1/1024	YSFR	3-1/4	33508	50	50	273	334	1900 110
10329	1 1/2048	YSFR	3-1/4	33508	50	50	273	334	1900 110
10330	1 1/4096	YSFR	3-1/4	33508	50	50	273	334	1900 110

WATER COST 400 415 14 415 120 14 10











Gustavson Arctic Drilling Company

RIG NO 11

WELL PACIFIC PET. ET. AL. DEER RIVER W. EST. DATE MARCH 31, 1978

DAYS FROM SPUD 42 MAILING ADDRESS ROAD CONDITIONS WEAR AT 4 AM. - 300 GALLONS

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

NO	DATE	TIME	START	STOP	INTL
1	12/10/77	12:00	12:00	12:15	1/4
2	12/11/77	12:00	12:00	12:15	1/4
3	12/12/77	12:00	12:00	12:15	1/4

APPROVED OPERATOR: [Signature] DATE: [Date] WATER COST: \$ [Amount] COPIES: [Number]

DAYS FROM SPUD 46 MAILING ADDRESS ROAD CON. JTDNS WEATHER 24

FROM	NO.	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILL COLLARS	NO.	Q.D.	I.D.	LENGTH	WT. AIR	SURVEYS	REMARKS	START TIME	STOP TIME
12 MN	116	244	44	20	60	46	1700	68	1700	8.80	11.0	6.11	11.38	DRILL 2 3/4 HOLES	12/24	12/24
4 AM	127	244	44	60	45	1910	55	1700	8.80	11.0	6.11	11.38	DRILL 2 3/4 HOLES	12/24	12/24	
WATER ADDED: 1 STEAM																
MUD ADDITIVES: 1 1/2 LBS																
DRILLING RECORD																
NO.	SIZE	TYPE	JETS	SERIAL <td>WT.</td> <td>R.P.M.</td> <td>DRILL COLLARS</td> <td>NO.</td> <td>Q.D.</td> <td>I.D.</td> <td>LENGTH</td> <td>WT. AIR</td> <td>SURVEYS</td> <td>REMARKS</td> <td>START TIME</td> <td>STOP TIME</td>	WT.	R.P.M.	DRILL COLLARS	NO.	Q.D.	I.D.	LENGTH	WT. AIR	SURVEYS	REMARKS	START TIME	STOP TIME
9650	9650	48	2	1760	9650	1760	1760	1760	1760	1760	1760	1760	1760	DRILL 2 3/4 HOLES	12/24	12/24
WATER ADDED: 1 1/2 LBS																
MUD ADDITIVES: 1 1/2 LBS																
DRILLING RECORD																
NO.	SIZE	TYPE	JETS	SERIAL <td>WT.</td> <td>R.P.M.</td> <td>DRILL COLLARS</td> <td>NO.</td> <td>Q.D.</td> <td>I.D.</td> <td>LENGTH</td> <td>WT. AIR</td> <td>SURVEYS</td> <td>REMARKS</td> <td>START TIME</td> <td>STOP TIME</td>	WT.	R.P.M.	DRILL COLLARS	NO.	Q.D.	I.D.	LENGTH	WT. AIR	SURVEYS	REMARKS	START TIME	STOP TIME
9650	9650	48	2	1760	9650	1760	1760	1760	1760	1760	1760	1760	1760	DRILL 2 3/4 HOLES	12/24	12/24
WATER ADDED: 1 1/2 LBS																
MUD ADDITIVES: 1 1/2 LBS																
DRILLING RECORD																
NO.	SIZE	TYPE	JETS	SERIAL <td>WT.</td> <td>R.P.M.</td> <td>DRILL COLLARS</td> <td>NO.</td> <td>Q.D.</td> <td>I.D.</td> <td>LENGTH</td> <td>WT. AIR</td> <td>SURVEYS</td> <td>REMARKS</td> <td>START TIME</td> <td>STOP TIME</td>	WT.	R.P.M.	DRILL COLLARS	NO.	Q.D.	I.D.	LENGTH	WT. AIR	SURVEYS	REMARKS	START TIME	STOP TIME
9650	9650	48	2	1760	9650	1760	1760	1760	1760	1760	1760	1760	1760	DRILL 2 3/4 HOLES	12/24	12/24

DRILLER'S SIGNATURE  
DATE  
REMARKS  
DRILLER'S SIGNATURE

CASING REPORT  
PLUG DOWN  
DATE  
SINCE SONOSC  
RETURNS  
DATE  
SINCE SONOSC

APPROVED OPERATOR  
DATE  
WATER COST  
CONS. BD COPY







MAILING ADDRESS: ROAD CONDITIONS: WEATHER 14-20 High 14-20 Low

FROM	TO	FOOTAGE	HRS ON WT	DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	Q	U	TO	LENGTH	WT. LB	NO	Q	U	TO	LENGTH	WT. LB			
9519				14 1/2	66	1	21	6	3	2	276	6 1/4	11-23									
B	NO	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CORED	HRS	REAMED	HRS	MODEL	S.P.M.	LINER	PLUG #	PRESS	MODEL	S.P.M.	T	B	G	
	208	3 1/8			37660									1	1000	110						

FROM	TO	FOOTAGE	HRS ON WT	DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	Q	U	TO	LENGTH	WT. LB	NO	Q	U	TO	LENGTH	WT. LB		
9519				27	586	14	21	6	3	2	276	6 1/4	11-23								
B	NO	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CORED	HRS	REAMED	HRS	MODEL	S.P.M.	LINER	PLUG #	PRESS	MODEL	S.P.M.	T	B	G
	208	3 1/8			37660									1	1000	110					

FROM	TO	FOOTAGE	HRS ON WT	DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	Q	U	TO	LENGTH	WT. LB	NO	Q	U	TO	LENGTH	WT. LB		
9519				27	586	14	21	6	3	2	276	6 1/4	11-23								
B	NO	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CORED	HRS	REAMED	HRS	MODEL	S.P.M.	LINER	PLUG #	PRESS	MODEL	S.P.M.	T	B	G
	208	3 1/8			37660									1	1000	110					

FROM	TO	FOOTAGE	HRS ON WT	DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	Q	U	TO	LENGTH	WT. LB	NO	Q	U	TO	LENGTH	WT. LB		
9519				27	586	14	21	6	3	2	276	6 1/4	11-23								
B	NO	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CORED	HRS	REAMED	HRS	MODEL	S.P.M.	LINER	PLUG #	PRESS	MODEL	S.P.M.	T	B	G
	208	3 1/8			37660									1	1000	110					

FROM	TO	FOOTAGE	HRS ON WT	DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	Q	U	TO	LENGTH	WT. LB	NO	Q	U	TO	LENGTH	WT. LB		
9519				27	586	14	21	6	3	2	276	6 1/4	11-23								
B	NO	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CORED	HRS	REAMED	HRS	MODEL	S.P.M.	LINER	PLUG #	PRESS	MODEL	S.P.M.	T	B	G
	208	3 1/8			37660									1	1000	110					

REMARKS: SP. RO. R. I. ...  
 11/23/78  
 1157  
 1157  
 1157  
 1157

DRILLER'S SIGNATURE: J. Gustavson  
 DATE: 11/23/78

WATER COST: \$  
 CONS. BD. COPY

Gustavson Arctic Drilling Company

RIG NO. 11

WELL NAME: *Arctic Drilling Co. V-1037*

DATE: *March 7 1968*

1968

No. 10113

DAYS FROM SPUD: *43* MAILING ADDRESS: \_\_\_\_\_

ROAD CONDITIONS: \_\_\_\_\_

WEATHER: *S - Clear*

FROM	TO	FOOTAGE	WT DRILL PIPE	SPINDLES	SINGLES	DRILL COLLARS	NO	DR	OR	LEAD-IN	WT	FT LEFT	REMARKS	TIME			
NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CTRD	HRS	REAMED	HRS	S.P.M.	T	B	G	START	STOP	INVT

128	3 1/2	XIG	340	37660	128	100	11:23	10							180	180	14
<p>12000 4-1/2" ID 6"</p> <p>DESILTER: HRS OP _____ U-FLOW _____ O-FLOW _____</p> <p>MUD ADDITIVES: <i>CAUSTIC 1 BAG</i></p>																	

132	3 1/2	XIG	350	37660	132	100	11:23	10							180	180	14
<p>12000 4-1/2" ID 6"</p> <p>DESILTER: HRS OP _____ U-FLOW _____ O-FLOW _____</p> <p>MUD ADDITIVES: <i>CAUSTIC 1 BAG</i></p>																	

132	3 1/2	XIG	350	37660	132	100	11:23	10							180	180	14
<p>12000 4-1/2" ID 6"</p> <p>DESILTER: HRS OP _____ U-FLOW _____ O-FLOW _____</p> <p>MUD ADDITIVES: <i>CAUSTIC 1 BAG</i></p>																	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CTRD	HRS	REAMED	HRS	S.P.M.	T	B	G	START	STOP	INVT
132	3 1/2	XIG	350	37660	132	100	11:23	10							180	180	14
<p>12000 4-1/2" ID 6"</p> <p>DESILTER: HRS OP _____ U-FLOW _____ O-FLOW _____</p> <p>MUD ADDITIVES: <i>CAUSTIC 1 BAG</i></p>																	

DRILLING RECORD: *132* NAME: *WRI 8* NO LINES: *29* TRIPS: *14763* TON MILES: *14763* FEET SLIP ON CUT: \_\_\_\_\_ AT MILES: \_\_\_\_\_ DATE: *12/29/67*

NO. *132* SIZE *3 1/2* TYPE *XIG* JETS *350* SERIAL *37660* WT. *132* R.P.M. *100* DRILLED OR CTRD \_\_\_\_\_ HRS *10* REAMED \_\_\_\_\_ HRS \_\_\_\_\_ S.P.M. \_\_\_\_\_ T \_\_\_\_\_ B \_\_\_\_\_ G \_\_\_\_\_

WATER ADDED: *4 STRAIGHT* DESILTER: HRS OP \_\_\_\_\_ U-FLOW \_\_\_\_\_ O-FLOW \_\_\_\_\_

MUD ADDITIVES: *CAUSTIC 1 BAG* SURVEYS: \_\_\_\_\_ DEPTH: \_\_\_\_\_

DRILLING RECORD: *132* NAME: *WRI 8* NO LINES: *29* TRIPS: *14763* TON MILES: *14763* FEET SLIP ON CUT: \_\_\_\_\_ AT MILES: \_\_\_\_\_ DATE: *12/29/67*

NO. *132* SIZE *3 1/2* TYPE *XIG* JETS *350* SERIAL *37660* WT. *132* R.P.M. *100* DRILLED OR CTRD \_\_\_\_\_ HRS *10* REAMED \_\_\_\_\_ HRS \_\_\_\_\_ S.P.M. \_\_\_\_\_ T \_\_\_\_\_ B \_\_\_\_\_ G \_\_\_\_\_

WATER ADDED: *4 STRAIGHT* DESILTER: HRS OP \_\_\_\_\_ U-FLOW \_\_\_\_\_ O-FLOW \_\_\_\_\_

MUD ADDITIVES: *CAUSTIC 1 BAG* SURVEYS: \_\_\_\_\_ DEPTH: \_\_\_\_\_

REMARKS: *RAIN IN WITH BIT - 20 CLEAN 5872 - 5817 130 good 6H*

*See Rig 9 V 1037*

*Rain out besides from 5932 to 5872 & west tight spots*

*400 415 415*

*1200 734*

APPROVED OPERATOR: \_\_\_\_\_

APPROVED TOOLPUSHER: \_\_\_\_\_

WATER COST: *5*

CONS. 3D COPY













MAILING ADDRESS ROAD CONDITIONS WEATHER

PROD NO.	TO	FOOTAGE	HRS ON	WT	DRILL	NO	OD	TD	LENGTH	WT	AIR	START	STOP	INTL
1072	9165	93	174	170	4494	21	634	238	643.98			1775	1775	
118	834	555	412	412	539	4834		1	1950	110	ADG	1900	195	13
												145	202	4
												200	200	6

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	T	B	G
174	12 1/4	W	3	170	14179	1150	5450	11					
174	9 1/2	W	3	170	14179	1150	5450	11					

REMARKS  
DALS 8 3/4 HOLES  
R 8 5 1/2 80 PS  
DALS 22 LIT

DRILLER'S SIGNATURE  
DATE 23/3/73

DRILLER'S SIGNATURE  
DATE 23/3/73

DRILLER'S SIGNATURE  
DATE 23/3/73

DRILLER'S SIGNATURE  
DATE 23/3/73

DRILLER'S SIGNATURE  
DATE 23/3/73

PLUS	PLUG DOWN	TOTAL	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER

APPROVED	OPERATION	TOOLPUSHER













GUSTAVSON DRILLING (1964) LTD. RIG NO. 11 WELL Pacific REAL TRAIL RIVER VI E-37 DATE FEB 6 1969

MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	REAMED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS	START	STOP	INVL
249	380	131	7.5	44M			380	124	1	350	120	12.4	12.4	120	REAM 124 TO 17 1/2 HOLE.	1200	145	14
	87	178	H.O.												REAM 124 TO 17 1/2 HOLE	125	200	6

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
12 MN	68	10.7					2.08	12.4						
4 AM	53	10.7					2.08	12.4						

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
1	81	178	H.O.				6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
2	598	3.6					1.25	1.25						

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
3	178	H.O.					6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
4	5	10.7					2.08	12.4						

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
5	598	3.6					1.25	1.25						

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
6	178	H.O.					6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
7	178	H.O.					6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
8	178	H.O.					6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
9	178	H.O.					6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
10	178	H.O.					6.13	23.1	70	11.1	11.1			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS	REAMED	HRS	U.FLOW	O.FLOW	DEPTH	REMARKS
11	178	H.O.					6.13	23.1	70	11.1	11.1			

REMARKS: REAM 124 TO 17 1/2 HOLE. REAM 124 TO 17 1/2 HOLE.

REMARKS: REAM 124 TO 17 1/2 HOLE.

REMARKS: REAM 124 TO 17 1/2 HOLE.

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REMARKS: REAM 124 TO 17 1/2 HOLE.



**GUSTAVSON DRILLING (1964) LTD.**

DAYS FROM SPUD 4 MAILING ADDRESS \_\_\_\_\_ RIG NO 11 WELL Banta Ethl Rec 17 E-37 DATE Feb 17 1972 NO 10253

ROAD CONDITIONS \_\_\_\_\_ WEATHER \_\_\_\_\_

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	Q.D.	D	LENGTH	WT AIR	S.P.M.	REMARKS	START	STOP	INTVL
11/18	7 1/2"	6	2	1201	6	2	3	2	6 3/4"	2 3/4"	1000	120	120	Delg 124 Hdk 15-1200 W.T.	1200	1200	2
11/18	5 1/2"	3 1/4	3	3365	10	30	92	7 3/4"	11 1/2"	1	1000	120	120	Delg 124 Hdk 3000 W.T.	1200	1200	2
12/18	7 1/2"	102												Delg 124 Hdk 1095' 10	515	530	15
4 AM	6 1/2"	104												Delg 124 Hdk	530	620	1

WATER ADDED: N/A DESILTER: HRS OP \_\_\_\_\_ U.FLOW \_\_\_\_\_ O.FLOW \_\_\_\_\_

MUD ADDITIVES: CRN Charles Taper also

DRILLING RECORD	NO.	SIZE	TYPE	LETS	WT.	R.P.M.	DRILLER'S SIGNATURE
11/18	60-100	40	40	1	626	5	100
17 1/2"	NO.	17 1/2"	NO.	1	626	5	100

8 AM: \_\_\_\_\_  
 12 NOON: \_\_\_\_\_  
 WATER ADDED: \_\_\_\_\_  
 DESILTER: HRS OP \_\_\_\_\_ U.FLOW \_\_\_\_\_ O.FLOW \_\_\_\_\_

MUD ADDITIVES: PP-104-115 20  
2-17-112 26  
730 D-107

DRILLING RECORD	NO.	SIZE	TYPE	LETS	WT.	R.P.M.	DRILLER'S SIGNATURE
11/18	17 1/2"	NO.	17 1/2"	1	626	5	100
17 1/2"	NO.	17 1/2"	NO.	1	626	5	100

4 PM: \_\_\_\_\_  
 8 PM: \_\_\_\_\_  
 WATER ADDED: \_\_\_\_\_  
 DESILTER: HRS OP \_\_\_\_\_ U.FLOW \_\_\_\_\_ O.FLOW \_\_\_\_\_

MUD ADDITIVES: \_\_\_\_\_

DRILLING LINE	NO.	SIZE	TYPE	LETS	WT.	R.P.M.	DRILLER'S SIGNATURE
11/18	17 1/2"	NO.	17 1/2"	1	626	5	100

WATER ADDED: \_\_\_\_\_  
 DESILTER: HRS OP \_\_\_\_\_ U.FLOW \_\_\_\_\_ O.FLOW \_\_\_\_\_

DRILLING LINE	NO.	SIZE	TYPE	LETS	WT.	R.P.M.	DRILLER'S SIGNATURE
11/18	17 1/2"	NO.	17 1/2"	1	626	5	100

WATER ADDED: \_\_\_\_\_  
 DESILTER: HRS OP \_\_\_\_\_ U.FLOW \_\_\_\_\_ O.FLOW \_\_\_\_\_

DRILL PIPE	CLASSIFICATION	TOTAL	DATE	AM	RETURN	PT DRILLED	DATE	FI WITH	SAX
1	NO 2	1							
2	NO 3	1							

APPROVED OPERATOR: \_\_\_\_\_  
 APPROVED TOOL PUSHER: \_\_\_\_\_

WATER COST: \$ \_\_\_\_\_  
 CONS. BD. COPY







DAYS FROM SPUD *1* MAILING ADDRESS \_\_\_\_\_ ROAD CONDITIONS \_\_\_\_\_ WEATHER *50 Below*

FROM	TO	FOOTAGE	HRS ON	WT	DRILL	NO	OD	TD	LENGTH	WT	DEPTH	REMARKS	START	STOP	INITIAL
110'	233'	123	6	30	COLLARS	7	6.34	2.74	3475	300	511'	Seat Rig	1200	1215	W
110'	535'	300	10	100	COLLARS	8	6.34	2.74	3475	300	511'	Rig 124 surface hole	1215	1230	W
110'	535'	300	10	100	COLLARS	9	6.34	2.74	3475	300	511'	Survey @ 110'	1230	1245	W
110'	535'	300	10	100	COLLARS	10	6.34	2.74	3475	300	511'	Survey @ 110'	1245	1260	W
110'	535'	300	10	100	COLLARS	11	6.34	2.74	3475	300	511'	Survey @ 200'	1260	1275	W
110'	535'	300	10	100	COLLARS	12	6.34	2.74	3475	300	511'	Survey @ 200'	1275	1290	W
110'	535'	300	10	100	COLLARS	13	6.34	2.74	3475	300	511'	Survey @ 200'	1290	1305	W
110'	535'	300	10	100	COLLARS	14	6.34	2.74	3475	300	511'	Survey @ 200'	1305	1320	W
110'	535'	300	10	100	COLLARS	15	6.34	2.74	3475	300	511'	Survey @ 200'	1320	1335	W
110'	535'	300	10	100	COLLARS	16	6.34	2.74	3475	300	511'	Survey @ 200'	1335	1350	W
110'	535'	300	10	100	COLLARS	17	6.34	2.74	3475	300	511'	Survey @ 200'	1350	1365	W
110'	535'	300	10	100	COLLARS	18	6.34	2.74	3475	300	511'	Survey @ 200'	1365	1380	W
110'	535'	300	10	100	COLLARS	19	6.34	2.74	3475	300	511'	Survey @ 200'	1380	1395	W
110'	535'	300	10	100	COLLARS	20	6.34	2.74	3475	300	511'	Survey @ 200'	1395	1410	W
110'	535'	300	10	100	COLLARS	21	6.34	2.74	3475	300	511'	Survey @ 200'	1410	1425	W
110'	535'	300	10	100	COLLARS	22	6.34	2.74	3475	300	511'	Survey @ 200'	1425	1440	W
110'	535'	300	10	100	COLLARS	23	6.34	2.74	3475	300	511'	Survey @ 200'	1440	1455	W
110'	535'	300	10	100	COLLARS	24	6.34	2.74	3475	300	511'	Survey @ 200'	1455	1470	W
110'	535'	300	10	100	COLLARS	25	6.34	2.74	3475	300	511'	Survey @ 200'	1470	1485	W
110'	535'	300	10	100	COLLARS	26	6.34	2.74	3475	300	511'	Survey @ 200'	1485	1500	W
110'	535'	300	10	100	COLLARS	27	6.34	2.74	3475	300	511'	Survey @ 200'	1500	1515	W
110'	535'	300	10	100	COLLARS	28	6.34	2.74	3475	300	511'	Survey @ 200'	1515	1530	W
110'	535'	300	10	100	COLLARS	29	6.34	2.74	3475	300	511'	Survey @ 200'	1530	1545	W
110'	535'	300	10	100	COLLARS	30	6.34	2.74	3475	300	511'	Survey @ 200'	1545	1560	W
110'	535'	300	10	100	COLLARS	31	6.34	2.74	3475	300	511'	Survey @ 200'	1560	1575	W
110'	535'	300	10	100	COLLARS	32	6.34	2.74	3475	300	511'	Survey @ 200'	1575	1590	W
110'	535'	300	10	100	COLLARS	33	6.34	2.74	3475	300	511'	Survey @ 200'	1590	1605	W
110'	535'	300	10	100	COLLARS	34	6.34	2.74	3475	300	511'	Survey @ 200'	1605	1620	W
110'	535'	300	10	100	COLLARS	35	6.34	2.74	3475	300	511'	Survey @ 200'	1620	1635	W
110'	535'	300	10	100	COLLARS	36	6.34	2.74	3475	300	511'	Survey @ 200'	1635	1650	W
110'	535'	300	10	100	COLLARS	37	6.34	2.74	3475	300	511'	Survey @ 200'	1650	1665	W
110'	535'	300	10	100	COLLARS	38	6.34	2.74	3475	300	511'	Survey @ 200'	1665	1680	W
110'	535'	300	10	100	COLLARS	39	6.34	2.74	3475	300	511'	Survey @ 200'	1680	1695	W
110'	535'	300	10	100	COLLARS	40	6.34	2.74	3475	300	511'	Survey @ 200'	1695	1710	W
110'	535'	300	10	100	COLLARS	41	6.34	2.74	3475	300	511'	Survey @ 200'	1710	1725	W
110'	535'	300	10	100	COLLARS	42	6.34	2.74	3475	300	511'	Survey @ 200'	1725	1740	W
110'	535'	300	10	100	COLLARS	43	6.34	2.74	3475	300	511'	Survey @ 200'	1740	1755	W
110'	535'	300	10	100	COLLARS	44	6.34	2.74	3475	300	511'	Survey @ 200'	1755	1770	W
110'	535'	300	10	100	COLLARS	45	6.34	2.74	3475	300	511'	Survey @ 200'	1770	1785	W
110'	535'	300	10	100	COLLARS	46	6.34	2.74	3475	300	511'	Survey @ 200'	1785	1800	W
110'	535'	300	10	100	COLLARS	47	6.34	2.74	3475	300	511'	Survey @ 200'	1800	1815	W
110'	535'	300	10	100	COLLARS	48	6.34	2.74	3475	300	511'	Survey @ 200'	1815	1830	W
110'	535'	300	10	100	COLLARS	49	6.34	2.74	3475	300	511'	Survey @ 200'	1830	1845	W
110'	535'	300	10	100	COLLARS	50	6.34	2.74	3475	300	511'	Survey @ 200'	1845	1860	W
110'	535'	300	10	100	COLLARS	51	6.34	2.74	3475	300	511'	Survey @ 200'	1860	1875	W
110'	535'	300	10	100	COLLARS	52	6.34	2.74	3475	300	511'	Survey @ 200'	1875	1890	W
110'	535'	300	10	100	COLLARS	53	6.34	2.74	3475	300	511'	Survey @ 200'	1890	1905	W
110'	535'	300	10	100	COLLARS	54	6.34	2.74	3475	300	511'	Survey @ 200'	1905	1920	W
110'	535'	300	10	100	COLLARS	55	6.34	2.74	3475	300	511'	Survey @ 200'	1920	1935	W
110'	535'	300	10	100	COLLARS	56	6.34	2.74	3475	300	511'	Survey @ 200'	1935	1950	W
110'	535'	300	10	100	COLLARS	57	6.34	2.74	3475	300	511'	Survey @ 200'	1950	1965	W
110'	535'	300	10	100	COLLARS	58	6.34	2.74	3475	300	511'	Survey @ 200'	1965	1980	W
110'	535'	300	10	100	COLLARS	59	6.34	2.74	3475	300	511'	Survey @ 200'	1980	1995	W
110'	535'	300	10	100	COLLARS	60	6.34	2.74	3475	300	511'	Survey @ 200'	1995	2010	W
110'	535'	300	10	100	COLLARS	61	6.34	2.74	3475	300	511'	Survey @ 200'	2010	2025	W
110'	535'	300	10	100	COLLARS	62	6.34	2.74	3475	300	511'	Survey @ 200'	2025	2040	W
110'	535'	300	10	100	COLLARS	63	6.34	2.74	3475	300	511'	Survey @ 200'	2040	2055	W
110'	535'	300	10	100	COLLARS	64	6.34	2.74	3475	300	511'	Survey @ 200'	2055	2070	W
110'	535'	300	10	100	COLLARS	65	6.34	2.74	3475	300	511'	Survey @ 200'	2070	2085	W
110'	535'	300	10	100	COLLARS	66	6.34	2.74	3475	300	511'	Survey @ 200'	2085	2100	W
110'	535'	300	10	100	COLLARS	67	6.34	2.74	3475	300	511'	Survey @ 200'	2100	2115	W
110'	535'	300	10	100	COLLARS	68	6.34	2.74	3475	300	511'	Survey @ 200'	2115	2130	W
110'	535'	300	10	100	COLLARS	69	6.34	2.74	3475	300	511'	Survey @ 200'	2130	2145	W
110'	535'	300	10	100	COLLARS	70	6.34	2.74	3475	300	511'	Survey @ 200'	2145	2160	W
110'	535'	300	10	100	COLLARS	71	6.34	2.74	3475	300	511'	Survey @ 200'	2160	2175	W
110'	535'	300	10	100	COLLARS	72	6.34	2.74	3475	300	511'	Survey @ 200'	2175	2190	W
110'	535'	300	10	100	COLLARS	73	6.34	2.74	3475	300	511'	Survey @ 200'	2190	2205	W
110'	535'	300	10	100	COLLARS	74	6.34	2.74	3475	300	511'	Survey @ 200'	2205	2220	W
110'	535'	300	10	100	COLLARS	75	6.34	2.74	3475	300	511'	Survey @ 200'	2220	2235	W
110'	535'	300	10	100	COLLARS	76	6.34	2.74	3475	300	511'	Survey @ 200'	2235	2250	W
110'	535'	300	10	100	COLLARS	77	6.34	2.74	3475	300	511'	Survey @ 200'	2250	2265	W
110'	535'	300	10	100	COLLARS	78	6.34	2.74	3475	300	511'	Survey @ 200'	2265	2280	W
110'	535'	300	10	100	COLLARS	79	6.34	2.74	3475	300	511'	Survey @ 200'	2280	2295	W
110'	535'	300	10	100	COLLARS	80	6.34	2.74	3475	300	511'	Survey @ 200'	2295	2310	W
110'	535'	300	10	100	COLLARS	81	6.34	2.74	3475	300	511'	Survey @ 200'	2310	2325	W
110'	535'	300	10	100	COLLARS	82	6.34	2.74	3475	300	511'	Survey @ 200'	2325	2340	W
110'	535'	300	10	100	COLLARS	83	6.34	2.74	3475	300	511'	Survey @ 200'	2340	2355	W
110'	535'	300	10	100	COLLARS	84	6.34	2.74	3475	300	511'				

















DAYS FROM SPUD 14 MAILING ADDRESS SURVEY ADDRESS

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
1	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	11:45	12:15
2	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	12:15	12:45

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
3	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	12:45	1:15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
4	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	1:15	1:45

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
5	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	1:45	2:15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
6	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	2:15	2:45

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
7	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	2:45	3:15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
8	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	3:15	3:45

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
9	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	3:45	4:15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
10	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	4:15	4:45

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
11	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	4:45	5:15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
12	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	5:15	5:45

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
13	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	5:45	6:15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	COLLARS	HRS.	REAMED	HRS.	DEPTH	REMARKS	START	STOP
14	5 1/2	S88	2	191839	50	50	208	214			1185	Rig down + 250 lbs	6:15	6:45

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219

DRILLING RECORD: 190 TO 33831/13 6 10011 268455  
 MUD ADDITIVES: 35 LBS  
 DESILTER: HRS OP 5.88 U FLOW 9.2 O FLOW 8.8  
 SURVEYS: 1. 3219



DAYS FROM SPUD 15 MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM RECORD	TO	FOOTAGE	HT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	ID	LENGTH	WT AIR	START TIME	STOP TIME	INTL
1810	2412	602	47 3/4	11		1	6 1/4	2 1/2	6 1/2	442	900	11:30	1:00	2
1	4	3 3/4	160 x 130	40						1500	100	1:15	1:50	3
5	8 3/4	3 3/4	160 x 130	40						1500	100	1:55	2:30	4
MUD: VIS 1 WT 8.0 W.L. 8.0 PH 0 PV 0 YP 0 SOLIDS 0 OIL 0 WATER ADDED: DESILTER: HRS DP 0 U FLOW 0 O FLOW 0 MUD ADDITIVES: SURVEYS DEPTH 14 1397														

FROM RECORD	TO	FOOTAGE	HT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	ID	LENGTH	WT AIR	START TIME	STOP TIME	INTL
3432	3656	224	91 M	50		21	6 3/4	2 1/2	6 1/2	442	900	2:35	3:10	5
5	8 3/4	3 3/4	160 x 130	50						1500	100	3:15	3:50	6
MUD: VIS 38 WT 8.9 W.L. 8.6 PH 8.5 PV 0 YP 0 SOLIDS 0 OIL 0 WATER ADDED: DESILTER: HRS DP 8 U FLOW 9.1 O FLOW 8.8 MUD ADDITIVES: SURVEYS DEPTH 14 1397														

FROM RECORD	TO	FOOTAGE	HT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	ID	LENGTH	WT AIR	START TIME	STOP TIME	INTL
268	2932	276	95 M	50		21	6 3/4	2 1/2	6 1/2	442	900	3:55	4:30	7
5	8 3/4	3 3/4	160 x 130	50						1500	100	4:35	5:10	8
MUD: VIS 5 WT 8.8 W.L. 8.6 PH 8.3 PV 0 YP 0 SOLIDS 0 OIL 0 WATER ADDED: DESILTER: HRS DP 8 U FLOW 8.9 O FLOW 8.6 MUD ADDITIVES: SURVEYS DEPTH 14 1397														

FROM RECORD	TO	FOOTAGE	HT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	ID	LENGTH	WT AIR	START TIME	STOP TIME	INTL
1	4	3 3/4	160 x 130	40						1500	100	5:15	5:50	9
8 PM	3 M	9	160 x 130	40						1500	100	5:55	6:30	10
MUD: VIS 36 WT 7.9 W.L. 7.3 PH 8.3 PV 0 YP 0 SOLIDS 0 OIL 0 WATER ADDED: DESILTER: HRS DP 8 U FLOW 8.9 O FLOW 8.6 MUD ADDITIVES: SURVEYS DEPTH 14 1397														

**DRILLING RECORD**

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	PUMP	TRIP	WT.	T	B	G
5	8 3/4	S 88	36 N	9122940-50	52	500	133	1	133	100	1	133	100			

**DESILTER**

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	PUMP	TRIP	WT.	T	B	G
21	6 3/4	2 1/2	6 1/2	442	900	2:35	3:10	5	3:15	3:50	4	3:55	4:30	7		

**FUEL ON HAND**

AT	MILES	SLIP	RECD	TO-DAY	TOTAL	GALS
12:00	1190	100	6			
8:00	980	100	6			

**CASING REPORT**

CLASSIFICATION	TOTAL	DATE	AM	PM	RETURNS	YES/NO	FT WITH	SA
1	2	3						

REMARKS: 1. 2 1/4 HOLES  
2. WIRE SURVEY  
3. WIRE SURVEY 14' WIRE LINE  
4. DRIG 1 1/2 HOLES  
5. TAIL LATER BIT  
6. TAIL LATER BIT  
7. TAIL LATER BIT  
8. TAIL LATER BIT  
9. TAIL LATER BIT  
10. TAIL LATER BIT

DRILLER'S SIGNATURE: [Signature]

DATE: FEB 12 1978

DAYS FROM START 14 MAILING ADDRESS

ROAD CONDITIONS

WEATHER

FROM	TO	FOOTAGE HRS ON 1" DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	1D	LENGTH	WT AIR	DEG	DEPTH	REMARKS	START	TIME
03	10	11			40	40	760	25	1500	100	15	230	DRILLING	12	15
11	12	12			40	40	760	25	1500	100	15	230	DRILLING	12	15

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CODE	HRS	REAMED	HRS	LINEAR	LINEAR	WT AIR	DEG	DEPTH	REMARKS	START	TIME
3	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	
4	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CODE	HRS	REAMED	HRS	LINEAR	LINEAR	WT AIR	DEG	DEPTH	REMARKS	START	TIME
1	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	
2	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CODE	HRS	REAMED	HRS	LINEAR	LINEAR	WT AIR	DEG	DEPTH	REMARKS	START	TIME
3	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	
4	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CODE	HRS	REAMED	HRS	LINEAR	LINEAR	WT AIR	DEG	DEPTH	REMARKS	START	TIME
5	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	
6	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR CODE	HRS	REAMED	HRS	LINEAR	LINEAR	WT AIR	DEG	DEPTH	REMARKS	START	TIME
7	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	
8	8 3/4	TYPE	24	40	40	760	25	1500	100	15	230	DRILLING	12	15	DRILLING	12	15	



MAILING ADDRESS ROAD CONDITIONS WEATHER

NO	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILL COLLARS	NO	GD	TD	LENGTH	WT	AIR	REMARKS	START	STOP	INVI
505	1610	155			993	491	1	21	634	278	643.98	55	20.45	Run in / magnet & Tank sub	1200	1215	14
3	834	344	211-10	EM563	40	40	155	42						Work Tank sub magnet	1215	1245	14
														Tap out / fish & Recover fish	1245	1300	14
														Re k up 3 DCS of Run in hole	1300	1330	14
														Delg 834 Hole in / Bit #2	1330	1400	14
MUD ADDITIVES: G.C.L. - 15547																	
DESILTER: HRS OP																	
SURVEYS																	
DEPT 1880																	
1 1/2 1540																	
1 1/2 1230																	
1.1 Survey @ 1540 - 1 1/2																	
1.200 - 1 1/2																	
DRILLER'S SIGNATURE																	
DATE																	
RE. SEC. CONSULTANT APPROVAL																	
DATE																	
11:00 12:00																	
1																	
8																	
MUD ADDITIVES: G.C.L. - 15547																	
DESILTER: HRS OP																	
SURVEYS																	
DEPT 1880																	
1 1/2 1540																	
1 1/2 1230																	
1.1 Survey @ 1540 - 1 1/2																	
1.200 - 1 1/2																	
DRILLER'S SIGNATURE																	
DATE																	
RE. SEC. CONSULTANT APPROVAL																	
DATE																	
11:00 12:00																	
1																	
8																	

DAYS FROM SPUD 10 MAILING ADDRESS

ROAD CONDITIONS

WEATHER

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	ID	LENGTH	WT AIR	FT LEFT	REMARKS	TIME	
115	1380	265	6	68m	8	2	18	634	24	550	33	978	75.8	<i>Pack up D&amp;S &amp; MAK. 4.0 BIT</i>	1200	200
														<i>Run in</i>	200	200
														<i>Drill 8 3/4 Hole</i>	200	800
														<i>7.66 DRAFT SURVAYS</i>		
														<i>1377 - 10"</i>		
														<i>1317 - 1/2"</i>		
														<i>1320 - 1/2"</i>		

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.
1	2 1/4	X16	211	3763	35	110	370	12 1/2			1	1200	110			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.
1	2 1/4	X16	211	3763	35	110	370	12 1/2			1	1200	110			

NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED	HRS.	REAMED	HRS.	PUMP NO.	PUMP PRESSURE	S.P.M.	T.	B.	G.
1	2 1/4	X16	211	3763	35	110	370	12 1/2			1	1200	110			

DESILTER: HRS OP \_\_\_\_\_ U.FLOW \_\_\_\_\_ O.FLOW \_\_\_\_\_ SURVEYS \_\_\_\_\_ DEPTH \_\_\_\_\_

WATER ADDED: \_\_\_\_\_ MUD ADDITIVES: \_\_\_\_\_

DRILLER'S SIGNATURE: \_\_\_\_\_

APPROVED OPERATOR: \_\_\_\_\_

APPROVED TOOLPUSHER: \_\_\_\_\_

WATER COST: \_\_\_\_\_

CONS. BD. COPY





GUSTAVSON DRILLING (1964) LTD. RIG NO. 116 WELL RICE ET AL P.O. Box 1001 VICTORIA T 38 DATE March 21 1972

DAYS FROM SPUD 37 MAILING ADDRESS ROAD CONDITIONS WEATHER

PROG	NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COFFERS		NO	G.D.	L.O.	LENGTH	WT AIR
								HRS	REAMED					
237	8670	33	3/4"	W	1988	132	140	15	1	1988	6	128	645	1830
12M	157	23	5/8"	W	1988	132	140	15	1	1988	6	128	645	1830
8AM	180	23	5/8"	W	1988	132	140	15	1	1988	6	128	645	1830

PROG	NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COFFERS		NO	G.D.	L.O.	LENGTH	WT AIR
								HRS	REAMED					
8671	882	33	3/4"	W	1988	132	140	15	1	1988	6	128	645	1830
12M	157	23	5/8"	W	1988	132	140	15	1	1988	6	128	645	1830
8AM	180	23	5/8"	W	1988	132	140	15	1	1988	6	128	645	1830

PROG	NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILL COFFERS		NO	G.D.	L.O.	LENGTH	WT AIR
								HRS	REAMED					
8672	882	33	3/4"	W	1988	132	140	15	1	1988	6	128	645	1830
12M	157	23	5/8"	W	1988	132	140	15	1	1988	6	128	645	1830
8AM	180	23	5/8"	W	1988	132	140	15	1	1988	6	128	645	1830

MUD ADDITIVES:				9 8035 GALS - C			
DESILTER:				HRS OP 2			
MOTOR:				HRS 11.5			
SURVEYS:				DEPT 11.5			
CLOGS:							
PLUGS:							
APPROVED OPERATOR:				DATE			
APPROVED SUPERVISOR:				DATE			
APPROVED TOOLPUSHER:				DATE			
WATER COST:				\$			
TOTAL GALS:							

REMARKS  
 RAIN IN TO 6757, DRINKER  
 RAIN RAIN BRIDGES 7050  
 TO 7179  
 RAIN WASH 2869 - T BOTM  
 DRIG 834 HOLE  
 230 330 1  
 330 800 1  
 410 417 4  
 415 1200 12  
 DATE 1/3 HOLE  
 DRIG 7 1/2 HOLE  
 10-11-72

REMARKS  
 ALL SERV. V BOD.  
 DRIG.  
 410 417 4  
 415 1200 12

CASING REPORT  
 RAN & CEM  
 DATE  
 DATE  
 DATE  
 DATE



**GUSTAVSON DRILLING (1964) LTD.**

MAILING ADDRESS

RD NO 11 P

WELL R. C. P. E. T. A. L. P. 11 R. O. V. W. H. T. E. 33 DATE 2001 21 19 22

DAYS FROM SPUD 32

ROAD CONDITIONS

WEATHER

FROM	TO	FOOTAGE	HRS	NO	COLLARS	NO	REAMED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
2637	8670	33	22	164	1999	21	634	27	648	98	1925	20			

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORED	DRILLED	HRS	REAMED	HRS	DEPT	DEPTH	START	STOP	TIME
12M	157	93	52	85	65	45	87	1925	8:20	110	6					
8 AM	180	78	48	85	65	53	91	1925	8:20	110	6					

APPROVED OPERATOR  
TOOLPUSHER

WATER COST

CONS ID COPY

PLUG DOWN

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE





**GUSTAVSON DRILLING (1964) LTD.**

RI NO 11

WELL Pacific ETA

Well River Y. Kar I E 3 DATE 22 Nov 1964

DAYS FROM SPUD 35 MAILING ADDRESS

ROAD CONDITIONS

WEATHER

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	DRILL COLLARS	NO	OD	ID	LENGTH	WT AIR	1" UP ON
15	3 3/4	4100	35	33071	10	6C						
12 MN	8 7	9 3	4 5	8 5	4	35	57					
4 AM	8 5	9 3	30	30	39	37	55					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	ON CORO	HRS	REAMED	HRS	PUMP PRESSURE	S.P.M.	T	B	G
1	1 1/2	3 1/2	3-4	910140	10	60									
2	1 1/2	3 1/2	3-4	910140	10	60									

REMARKS  
 5070 - PIPE FROM  
 PALLOUT. (Pumped single bit  
 out of hole)

DRILLER'S SIGNATURE  
 [Signature]

REMARKS  
 CLEAN WHILE FROM 230 TO 240  
 10:57:40

REMARKS  
 FROM BRIDGES FROM 4m  
 12m 8

DRILLER'S SIGNATURE  
 [Signature]

CASING REPORT  
 RAN 8 CEM  
 JTS

WATER COST  
 \$

GUSTAVSON DRILLING (1964) LTD.

DAYS FROM SPUD 84

MAILING ADDRESS

RIG NO 11

WELL BEILIE STEEL TAIL RAIL VADOT F37 DATE MAR 18 1982

ROAD CONDITIONS

WEATHER

FROM	TO	FOOTAGE	HRS ON WT	HRS ON WT	HRS ON WT	DRILL	NO	OD	ID	AT	AT	11
	9592					COLLARS	91	1440	1983	11.45		91

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800
12	MN	57	91				1500	6	6					
4	AM	150	92				1500	6	6					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED	HRS	REAMED	HRS	REMARKS	START	STOP	INTL
15	8 1/2	MANNE	3-5	23101	10	60					REAR Bridges from	1200		800



# GUSTAVSON DRILLING (1964) LTD.

RC NO 11

WELL Pacific Etal Trail Rivin Yukon T. F-37 DATE March 17 1972

MAILING ADDRESS

ROAD CONDITIONS

WEATHER

NO. 10133

FROM	TO	FOOTAGE	HRS OF	WT DRILL PIPE	STANDS	DRILL		NO	OD	ID	LENGTH	WT AIR	SPTS	HRS	REMARKS	START	STOP	TIME
						COLLARS	HRS											
518	95822	64	37.5	185	179	21	634	278	648	4	505	14	1200	1205	Rig 502 1 BOPs.	1200	1205	14
13	824	155R	3.12	334	98	50	582	49	802	1	120	110	6	110	Doig 824 Hole	1205	505	54
12MN	56	80	6.0	10.38	18	38	1800	820	110	6	1800	820	110	6	Sub by 8580	505	600	14
4 AM	85	80	6.0	9.5	31	24	1800	820	110	6	1800	820	110	6	Pull out B.T #13	600	900	2

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILED OR CORED	HRS	REAMED	HRS	S.P.M.	T	B	G	DEPTH	REMARKS	START	STOP	TIME
1	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
2	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
3	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
4	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					

DRILLING RECORD	LINE	NO. LINES	TURNS	TON MILES	TOTAL MILES	SLIP FEET	AT MILES	SLIP FEET	AT MILES	SLIP FEET	AT MILES	SLIP FEET	AT MILES	SLIP FEET	AT MILES	SLIP FEET	AT MILES	SLIP FEET	AT MILES
1	13	2	824	155R	3.12	334	98	50	582	49	802	1	120	110	6	110	6	110	6
2	14	2	824	155R	3.12	334	98	50	582	49	802	1	120	110	6	110	6	110	6

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILED OR CORED	HRS	REAMED	HRS	S.P.M.	T	B	G	DEPTH	REMARKS	START	STOP	TIME
1	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
2	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
3	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
4	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILED OR CORED	HRS	REAMED	HRS	S.P.M.	T	B	G	DEPTH	REMARKS	START	STOP	TIME
1	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
2	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
3	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
4	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILED OR CORED	HRS	REAMED	HRS	S.P.M.	T	B	G	DEPTH	REMARKS	START	STOP	TIME
1	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
2	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
3	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					
4	1 1/2	555	3.12	334	98	50	582	49	802	1	120	110	6	110					

MUD ADDITIVES:		DESILTER:		U FLOW:		O FLOW:		SURVEYS:		DEPTH:		CASING REPORT:		PLUG DOWN:		RETURNS:		WATER COST:	
8 AM	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
12 NOON	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

CASING REPORT:		PLUG DOWN:		RETURNS:		WATER COST:	
DATE	CLASSIFICATION	TOTAL	DATE	DATE	DATE	DATE	DATE

DRILLER SIGNATURE: *[Signature]*  
 DRILLER'S SIGNATURE: *[Signature]*  
 APPROVED OPERATOR: *[Signature]*  
 APPROVED TOOLPUSHER: *[Signature]*  
 WATER COST: \$ *[Amount]*  
 COPIES: *[Number]*

MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	SINGLES	DRILL COLLARS	NO	O.D.	I.D.	LENGTH	WT	AIR	FIELD	REMARKS	START	STOP	INTV
8237	8237	100	73M	162M		7802.51	21	2 3/8	2 1/4	14000	30.52	19	30.52		1200	1215	15
13	834	X55R	3/2	32498	50M	50	349.28			1800	110	110	110	800	800	73	
MUD	VIS	WT	W.L.	PH	PV	YP	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL
12MN	5.2	9.0	52.90	22	29	36	1800	81.88	6.7	1800	800	110	6.1				
4 AM	5.2	9.0	52.90	25	16	33											
WATER ADDED:		1.27															
MUD ADDITIVES:		Gel 1/2 Bags															
DESILTER:		HRS OP		8		9.1		O.FLOW		9.0							
TORN HOLES IN 21 Pump																	
MUD ADDITIVES:		1 1/2 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							
MUD		VIS		WT		W.L.		PH		PV		YP		DRILL		DRILL	
8 AM	5.5	9.0	56.10	5	20	36	1800	82.11	6								
12 NOON	8.1	8.1	5.6	10.00		17.32											
WATER ADDED:		1.1															
MUD ADDITIVES:		3.0 - 3.4 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							
MUD		VIS		WT		W.L.		PH		PV		YP		DRILL		DRILL	
8 AM	5.5	9.0	56.10	5	20	36	1800	82.11	6								
12 NOON	8.1	8.1	5.6	10.00		17.32											
WATER ADDED:		1.1															
MUD ADDITIVES:		3.0 - 3.4 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							
MUD		VIS		WT		W.L.		PH		PV		YP		DRILL		DRILL	
8 AM	5.5	9.0	56.10	5	20	36	1800	82.11	6								
12 NOON	8.1	8.1	5.6	10.00		17.32											
WATER ADDED:		1.1															
MUD ADDITIVES:		3.0 - 3.4 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							
MUD		VIS		WT		W.L.		PH		PV		YP		DRILL		DRILL	
8 AM	5.5	9.0	56.10	5	20	36	1800	82.11	6								
12 NOON	8.1	8.1	5.6	10.00		17.32											
WATER ADDED:		1.1															
MUD ADDITIVES:		3.0 - 3.4 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							
MUD		VIS		WT		W.L.		PH		PV		YP		DRILL		DRILL	
8 AM	5.5	9.0	56.10	5	20	36	1800	82.11	6								
12 NOON	8.1	8.1	5.6	10.00		17.32											
WATER ADDED:		1.1															
MUD ADDITIVES:		3.0 - 3.4 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							
MUD		VIS		WT		W.L.		PH		PV		YP		DRILL		DRILL	
8 AM	5.5	9.0	56.10	5	20	36	1800	82.11	6								
12 NOON	8.1	8.1	5.6	10.00		17.32											
WATER ADDED:		1.1															
MUD ADDITIVES:		3.0 - 3.4 Bags															
DESILTER:		HRS OP		8		9.2		O.FLOW		9.9							

SOSS RIG V LFC  
Daly 2 3/4 Hole

Daly 2 3/4 Hole  
Daly 2 3/4 Hole

LIN 2 3/4 HOLE  
LINO 2 3/4 HOLE

DRILLER'S SIGNATURE

APPROVED OPERATOR  
TOOLPUSHER

HYDRIL  
PIPE RAMS  
BLANK RAMS  
TOOTO RING

TESTED PRESSURE TIME DATE  
ENGINE SHUT OFF CHECKED  
KELLY COCK CHECKED  
FUEL ON HAND 7:01 AM 2:31 PM  
TOTAL GALS  
FUEL ON HAND 11:54 PM  
GALS  
FUEL USED GALS

NO. SIZE TYPE JETS SERIAL WT. R.P.M. OR CORO HRS REMOVED HRS T B G  
13 2 3/4 X 5 3-12 32498 50 50 441 35 24 1 1800 110 110

MUD VIS WT W.L PH PV YP DRILL DRILL  
4 PM 7.5 9.0 60 9.0 53 29 47 1/8 1800 81.10 110 6.1  
8 PM 6.5 9.0 60 9.0 30 27 43 1/8 1800 81.10 110 6.1

DRILLING LINE RECORD  
SIZE MAKE NO LINES TRIPS TON MILES TOTAL MILES  
1 1/2 WATI 8 21 219 13436  
NEXT SLIP ON SPOOL 13492 5880

CASING REPORT  
RAN 6 CEM  
PLUG DOWN  
DATE  
HOURS  
AM  
RETURNS  
45 NO  
FT DRILLED  
FT DRILLED  
TOTAL FT  
DRILLED

WATER COST  
APPROVED OPERATOR  
TOOLPUSHER



**GUSTAVSON DRILLING (1964) LTD.**

RIG NO. 11

WELL PAULINA EST. Paulina Well

DATE March 15, 1972

NO. 10131

DAYS FROM SPUD 31 MAILING ADDRESS \_\_\_\_\_

ROAD CONDITIONS \_\_\_\_\_

WEATHER 30 Below

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	1.0	LENGTH	WT AIR	30.0	REMARKS	TIME					
NO.	SIZE	TYPE	JETS	SERIAL	WT.	R.P.M.	DRILLED OR COHEO	HRS.	REAMED	HRS.	NO.	PRESSURE	S.P.M.	T	B	G	START	STOP	INTL.	
7998	8050	60'	4 1/2	1600	700	700	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>SOFT MUD V. E.C.P. Run in to zone. Full loge 1205 finished in to zone. 4000' obtained out to them 54' full. Donly</p>																				
8050	8145	90'	5 1/2	1900	800	800	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>WATER ADDED: 1 STAGNANT. DESILTER: HRS OP 1 hour U.FLOW</p>																				
<p>MUD ADDITIVES: Gel &amp; Hays</p>																				
<p>H US Bldg 1 Day</p>																				
<p>CONCRETE 1 Bag</p>																				
<p>TELETYPE 10 8032</p>																				
8145	8240	90'	5 1/2	1900	800	800	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>WATER ADDED: 1 STAGNANT. DESILTER: HRS OP 1 hour U.FLOW</p>																				
<p>MUD ADDITIVES: Gel &amp; Hays</p>																				
<p>CONCRETE 1 Bag</p>																				
<p>TELETYPE 10 8032</p>																				
8240	8335	90'	5 1/2	1900	800	800	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>WATER ADDED: 1 STAGNANT. DESILTER: HRS OP 1 hour U.FLOW</p>																				
<p>MUD ADDITIVES: Gel &amp; Hays</p>																				
<p>CONCRETE 1 Bag</p>																				
<p>TELETYPE 10 8032</p>																				
8335	8430	90'	5 1/2	1900	800	800	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>WATER ADDED: 1 STAGNANT. DESILTER: HRS OP 1 hour U.FLOW</p>																				
<p>MUD ADDITIVES: Gel &amp; Hays</p>																				
<p>CONCRETE 1 Bag</p>																				
<p>TELETYPE 10 8032</p>																				
8430	8525	90'	5 1/2	1900	800	800	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>WATER ADDED: 1 STAGNANT. DESILTER: HRS OP 1 hour U.FLOW</p>																				
<p>MUD ADDITIVES: Gel &amp; Hays</p>																				
<p>CONCRETE 1 Bag</p>																				
<p>TELETYPE 10 8032</p>																				
8525	8620	90'	5 1/2	1900	800	800	COLLARS	21	6 3/4	2 3/4	1400	1800	110	1200	1205	215	2	1200	1205	3
<p>WATER ADDED: 1 STAGNANT. DESILTER: HRS OP 1 hour U.FLOW</p>																				
<p>MUD ADDITIVES: Gel &amp; Hays</p>																				
<p>CONCRETE 1 Bag</p>																				
<p>TELETYPE 10 8032</p>																				

DRILLING RECORD: SIZE MAKE NO LINES TRIPS TON MILES TOTAL MILES SLIP ON CUT AT MILES SUP ON CUT DATE

BOP: TESTED PRESSURE TIME LAST REPAIR DATE CROWDMATIC CHECKED FUEL ON HAND 7:01 AM 3' 6" GALS MOTOR HRS

PIPE RAMS: CHECKED KELLY COOK CHECKED FUEL ON HAND 11:49 PM GALS

BLANK RAMS: CHECKED FUEL ON HAND 11:49 PM GALS

TO/CO RING: ON/OFF BOILER OPERATED HRS FINE EQUIP CHECKED FUEL USED GALS

APPROVED OPERATOR: [Signature]

APPROVED TOOLPUSHER: [Signature]

WATER COST \$

CONS. BD. COPY

DAYS FROM SPUD 30 MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM	TO	PROFAGE	HRS ON	DRILL	TONS	SINGLES	DRILL	NO	O.D.	L.O.D.	LENGTH	WT. AIR	DEPTH	REMARKS	START	STOP	TIME
779	787	92	74	122M	71	781.74	COLLARS	21	6 3/4"	2 1/2"	100.25		3056 15'	See Rig Log by Conservation B.	1200	1215	15
12	8 3/4"	108	3 1/2	1/2	60M	52	699	52		1	2100	110	Daily	Wire line survey for 7855 (10155)	700	730	30
MUD	VIS	WT	W.L.	PH	P.V.	Y.P.	SOLIDS	DRILL	2.50	2200	6"		8180	Daily	730	800	30

DRILLING	LINE	RECORD	NO	SIZE	TYPE	JETS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	DRILL	REMAINED	HRS	DEPTH
12	NOON	115	8 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14
12	NOON	55	9 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14

DRILLING	LINE	RECORD	NO	SIZE	TYPE	JETS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	DRILL	REMAINED	HRS	DEPTH
12	NOON	55	9 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14

DRILLING	LINE	RECORD	NO	SIZE	TYPE	JETS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	DRILL	REMAINED	HRS	DEPTH
12	NOON	55	9 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14

DRILLING	LINE	RECORD	NO	SIZE	TYPE	JETS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	DRILL	REMAINED	HRS	DEPTH
12	NOON	55	9 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14

DRILLING	LINE	RECORD	NO	SIZE	TYPE	JETS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	DRILL	REMAINED	HRS	DEPTH
12	NOON	55	9 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14

DRILLING	LINE	RECORD	NO	SIZE	TYPE	JETS	TON MILES	TOTAL MILES	SLIP ON CUT	AT MILES	DRILL	REMAINED	HRS	DEPTH
12	NOON	55	9 3/4"	108	3 1/2	1/2	60M	52	2.50	2200	6"		8180	200 215 14



FROM	TO	POSTAGE	NO. ON	WT. DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO.	OS	TD	LENGTH	WT. AIR	WT. B	WT. G	REMARKS	START	STOP	TIME	
7575	120'	7 1/2	151M	73.2	6870.23	COLLARS	21	6 3/4	2 1/2	14039		51.25	26.51	30'	Dry	1200	1230	1/2	
12	8 3/4"	7.55	36240	14443	50M	52	403'	354		1	2150	110			Dry	1230	1:15	3/4	
																1:15	2:00	6 3/4	

WIRE LINE SURVEY SECURITY DEPT  
Daly

12 MN 4 3/4 P. 9.6.0105 28 T  
4 AM 4 3/4 P. 9.6.10019 15

WATER ADDED: 1' STREAM.  
MUD ADDITIVES: GEL IN OILS.  
DESILTER: HRS OP 8 U FLOW 9.1 O FLOW 4.0

CHIKIS COLLEX 13905.  
TURT MADE IN 21 Hump  
13905

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
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FOOD PRESS 41  
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DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
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DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
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HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
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DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
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FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

DRILLING RECORD  
NO. 12  
SIZE 8 3/4"  
TYPE 5.55 3/4 x 6 1/2  
JETS 50M 50  
SERIAL 513  
WT 41  
R.P.M. 41  
OR CORO 41  
HRS REAMED 41  
FOOD PRESS 41  
S.P.M. 41

PLUGS	PLUG DOWN	TOTAL	DATE	NO. OF	PLUGS	DATE	NO. OF	PLUGS	DATE	NO. OF	PLUGS	DATE	NO. OF	PLUGS	DATE	NO. OF	PLUGS	DATE	NO. OF
1	1	1		1	1		1	1		1	1		1	1		1	1		1

APPROVED: \_\_\_\_\_  
SUPERVISOR

DRILLER'S SIGNATURE

GUSTAVSON DRILLING (1964) LTD. RIG NO 11 WELL Profile, F.M. Red River HT 1-37 DATE 12/12/58

MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM	TO	PORTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
71937275	82'	78	150M	104	189141	21	6 3/8	2 1/2	4 1/2	1 1/2	30 1/2	14	30 1/2	Drill 2 3/4 Hole	1200	1 30
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	

DRILLING	NO	SIZE	TYPE	JETS	WT	R.P.M.	DRILL	NO	OD	OD	LENGTH	WT	WT	REMARKS	START	TIME
12 2 3/4	55	3 1/2	11403 80	60	103'	11	2 1/2	110	2 1/2	110	2 1/2	110	Drill 2 3/4 Hole	130	2 00	



DAYS FROM SPUD 27 MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM		TO		FOOTAGE		HRS ON		MT DRILL PRT		STANDS		SINGLES		DRILL COLLARS		NO		DD		DD		LENGTH		AT AIR		SIB		REMARKS		START		STOP		TIME		
NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR COND	DRILLED	HRS	REAMED	HRS	D.P.M.	I	B	O	NO	PSI	NO	PSI	NO	PSI	NO	PSI	NO	PSI	NO	PSI	NO	PSI	NO	PSI	NO	PSI	NO	PSI	
7142	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>SEARCHING + BACK + RECOVERY Drip 2 1/2 Hk</p>																																				
7143	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7144	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7145	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7146	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7147	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7148	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7149	7150	1 1/2	2 1/2	2 3/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7150	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7151	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7152	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7153	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7154	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7155	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7156	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7157	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7158	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7159	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7160	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7161	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7162	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7163	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7164	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7165	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7166	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7167	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7168	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7169	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7170	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7171	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				
7172	7172	2 1/2	2 3/4	3 1/4	148M	49	40	1	134	21	63	234	234	49298																						
<p>Drip 2 1/2 Hk</p>																																				





**GUSTAVSON DRILLING (1964) LTD**

RIG NO. 11 WELL PACIFIC PET. FIELD 1000

DATE 12/15/64 TIME 10:15

MAILING ADDRESS

ROAD CONDITIONS

WEATHER

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4
1144	8 3/4	5 1/4	4	106	EM68	50	50	808	54 3/4	1	1000	100	200	12:55	1:25	2 1/2

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
12 MN	4 1/2	7 1/2	6 1/2	15	92	18										
4 AM	4 1/2	7 1/2	6 1/2	15	92	18										

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

NO.	SIZE	TYPE	JETS	WT.	R.P.M.	DRILLED HRS	REAMED HRS	NO. COLLARS	NO. COILS	NO. S.P.M.	T	B	G	START	STOP	AVG
1135	6 1/2	4 1/2	107	920	1414	60	87	21	634	24	645	30	1200	12:00	12:45	4

REMARKS  
RIG SERV V BOP  
DRILL

REMARKS  
REMAIN. 6000  
HEAD BOP. UNL. A. QUORNE

REMARKS  
DRILL

REMARKS  
DRILL

REMARKS  
DRILL

REMARKS  
DRILL

START	STOP	AVG
12:00	12:45	4
12:55	1:25	2 1/2

START	STOP	AVG
12:00	12:45	4
12:55	1:25	2 1/2





MAILING ADDRESS ROAD CONDITIONS WEATHER 18

FROM	TO	FOOTAGE	HRS DR	W/ SHILL	TONS	SINGLES	DRILL	NO	Q	D	W	AIR	STARS	REMARKS	START	THE
780	5101	121	934	133	5198.56		COLLARS	81	634	23	65493		2092	41	1200	1215
															1215	8:10

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
1	3 1/4	3 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
2	2 1/2	2 1/2	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
3	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
4	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
5	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
6	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
7	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
8	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
9	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

NO.	SIZE	TYPE	LETS	SERIAL	WT	R.P.M	OR CORED	HRS	REAMED	HRS	RESSURE	SPM	T	B	G	
10	2 1/4	2 1/4	50	50	50	161	104				1	1000	110			JN

TOICO RING ON/OFF BILLER'S OPERATOR'S HRS FIRE EQUIP CHECKED FUEL USED

REMARKS  
 1st hole up to 500 RPM for 5:30  
 2nd hole up to 600 RPM for 6:00  
 3rd hole up to 700 RPM for 6:30  
 4th hole up to 800 RPM for 7:00  
 5th hole up to 900 RPM for 7:30  
 6th hole up to 1000 RPM for 8:00  
 7th hole up to 1100 RPM for 8:30  
 8th hole up to 1200 RPM for 9:00  
 9th hole up to 1300 RPM for 9:30  
 10th hole up to 1400 RPM for 10:00

REMARKS  
 1st hole up to 500 RPM for 5:30  
 2nd hole up to 600 RPM for 6:00  
 3rd hole up to 700 RPM for 6:30  
 4th hole up to 800 RPM for 7:00  
 5th hole up to 900 RPM for 7:30  
 6th hole up to 1000 RPM for 8:00  
 7th hole up to 1100 RPM for 8:30  
 8th hole up to 1200 RPM for 9:00  
 9th hole up to 1300 RPM for 9:30  
 10th hole up to 1400 RPM for 10:00

REMARKS  
 1st hole up to 500 RPM for 5:30  
 2nd hole up to 600 RPM for 6:00  
 3rd hole up to 700 RPM for 6:30  
 4th hole up to 800 RPM for 7:00  
 5th hole up to 900 RPM for 7:30  
 6th hole up to 1000 RPM for 8:00  
 7th hole up to 1100 RPM for 8:30  
 8th hole up to 1200 RPM for 9:00  
 9th hole up to 1300 RPM for 9:30  
 10th hole up to 1400 RPM for 10:00

REMARKS  
 1st hole up to 500 RPM for 5:30  
 2nd hole up to 600 RPM for 6:00  
 3rd hole up to 700 RPM for 6:30  
 4th hole up to 800 RPM for 7:00  
 5th hole up to 900 RPM for 7:30  
 6th hole up to 1000 RPM for 8:00  
 7th hole up to 1100 RPM for 8:30  
 8th hole up to 1200 RPM for 9:00  
 9th hole up to 1300 RPM for 9:30  
 10th hole up to 1400 RPM for 10:00

REMARKS  
 1st hole up to 500 RPM for 5:30  
 2nd hole up to 600 RPM for 6:00  
 3rd hole up to 700 RPM for 6:30  
 4th hole up to 800 RPM for 7:00  
 5th hole up to 900 RPM for 7:30  
 6th hole up to 1000 RPM for 8:00  
 7th hole up to 1100 RPM for 8:30  
 8th hole up to 1200 RPM for 9:00  
 9th hole up to 1300 RPM for 9:30  
 10th hole up to 1400 RPM for 10:00

# Gustavson Arctic Drilling Company

WELL **PACIFIC DIST 36** DATE **MARCH 8 1952**

MAILING ADDRESS: \_\_\_\_\_ ROAD CONDITIONS: \_\_\_\_\_ WEATHER: **-1**

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
542	5 1/2	W	9	131M	50	470-72	21	6 3/4	28	470-72	2015	12:00 12:15
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30

NO.	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	DRILLED HRS	REAMED HRS	TOOL JOBS	S.P.M.	DEPTH	START STOP
10	8 3/4	M	8	211-1034100	48 1/2	50	453	21 1/2	1	1650/102	21	12:15 12:30



Gustavson Arctic Drilling Company RIG NO 11 WELL PACIFIC PET. ET AL PEEL RIVER XT 52 DATE MARCH 5 1982

DAYS FROM SPUD X1 MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM	TO	FOOTAGE	HRS ON	WT DRILL PIPE	STANDS	SINGLES	DRILL COLLARS	NO	NO	NO	LENGTH	WT AIR	SUBS	IN	REMARKS	START	TIME
210	5230	110	08 30	11239	4627x1			21	634	286	6938		2076	14	WORK LIGHT SHEDS BURNING & EXTINGUISHED		1:00
10	824	1988	24	110341120	45	40-50	110	634		1	1600	100			RIG SEND & BOP		1:05
															DATE		1:15
																	1:20

NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORE	HRS	REAMED	HRS	NO	DEPTH	IN	REMARKS
12 MN	12	W8	4	7095	15	11								
4 AM	4	W	4	7195										
MUD ADDITIVES: 1 S. RHM, 1 D.G. G.P.L.S.														
MUD: 110, 11, 70, 10, 16, 5														
DESILTER: HRS OP 8, FLOW 1.5, O FLOW 40														
MUD ADDITIVES: 26, 10, 3, 3														
DESILTER: HRS OP 8, FLOW 1.5, O FLOW 40														

NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORE	HRS	REAMED	HRS	NO	DEPTH	IN	REMARKS
10	834	W8	4	10341120	45	40-50	110	634		1	1600	100		DRY
534	544	184	184	184	184									LADY DRILL BIT SKIPPED
														DRY

NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORE	HRS	REAMED	HRS	NO	DEPTH	IN	REMARKS
44	544	150	8	150	150									DAILY WORK 150 R.P.M.
10	834	M8	4	110341120	40	40	50	332	2012		1	1650	100	DAILY WORK 150 R.P.M.

NO	SIZE	TYPE	JETS	SERIAL	WT	R.P.M.	OR CORE	HRS	REAMED	HRS	NO	DEPTH	IN	REMARKS
44	544	150	8	150	150									DAILY WORK 150 R.P.M.
10	834	M8	4	110341120	40	40	50	332	2012		1	1650	100	DAILY WORK 150 R.P.M.

DRILLING RECORD	NO	SIZE	MAKE	NO LINS	TRIPS	TON MILES	TOTAL MILES	DEPT	HRS	REAMED	HRS	NO	DEPTH	IN
DRILLING RECORD	44	544	150	8	150	150								
DRILLING RECORD	10	834	M8	4	110341120	40	40	50	332	2012		1	1650	100

REMARKS: WORK LIGHT SHEDS BURNING & EXTINGUISHED

REMARKS: RIG SEND & BOP, DATE

REMARKS: DRILL BIT SKIPPED, DAILY WORK 150 R.P.M.

REMARKS: DAILY WORK 150 R.P.M., DRILLING RECORD

DRILL REPORT	PLAN	THROW DOWN	NO	NO	NO	NO	NO
DRILL REPORT	PLAN	THROW DOWN	NO	NO	NO	NO	NO

Gustavson Arctic Drilling Company RIG NO 11 WELL PACIFIC DEL ET AL WEL RIVER YR F37 DATE MARCH 4 1973

DAYS FROM SPUD 20 MAILING ADDRESS ROAD CONDITIONS WEATHER

FROM	TO	POSTAGE	HRS ON	DRILL	STANDS	COILARS	NO	OD	0	1	2	3	4	5	6	7	8	9	10	11	12	
NO	SIZE	TYPE	JETS	SERIAL	WT	R P M	OR CODE	HRS	REMOVED	HRS	REMOVED	HRS	REMOVED	HRS	REMOVED	HRS	REMOVED	HRS	REMOVED	HRS	REMOVED	
042	5 1/2	17	35	128	4388	116		21	6 3/4	2 3/4	645	98	11:31	23								
9	8 3/4	H.W.		EM968	40	50	35			1	1530	105										
MUD								1530														

DRILLING RECORD	SIZE	MAKE	NO LINES	TRIPS	TON MILES	TOTAL MILES	FEET	AT MILES	DRY	NEET	AT FEET	DEG	DEPT
5071	5 1/8	WRI	8	17	358	1290	1290			1217	5850		
NO	SIZE	TYPE	JETS <td>SERIAL <td>WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td></td></td></td>	SERIAL <td>WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td></td></td>	WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td></td>	R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td>	DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td>	HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td>	REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td>	HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td>	REMOVED <td>HRS <td>REMOVED </td></td>	HRS <td>REMOVED </td>	REMOVED
9	8 3/4	J.H.H.	31	NO	EM968	40	50	136	0 3/4				
MUD													

DRILLING RECORD	SIZE	MAKE	NO LINES	TRIPS	TON MILES	TOTAL MILES	FEET	AT MILES	DRY	NEET	AT FEET	DEG	DEPT
178	5 1/2	WRI	8	17	358	1290	1290			1217	5850		
NO	SIZE	TYPE	JETS <td>SERIAL <td>WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td></td></td></td>	SERIAL <td>WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td></td></td>	WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td></td>	R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td></td>	DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td></td>	HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td></td>	REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td></td>	HRS <td>REMOVED <td>HRS <td>REMOVED </td></td></td>	REMOVED <td>HRS <td>REMOVED </td></td>	HRS <td>REMOVED </td>	REMOVED
9	8 3/4	J.H.H.	31	NO	EM968	40	50	134	5 2/10				
MUD													

DRILLING RECORD	SIZE	MAKE	NO LINES	TRIPS	TON MILES	TOTAL MILES	FEET	AT MILES	DRY	NEET	AT FEET	DEG	DEPT
178	5 1/2	WRI	8	17	358	1290	1290			1217	5850		
NO	SIZE	TYPE	JETS <td>SERIAL <td>WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td></td></td></td></td></td></td>	SERIAL <td>WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td></td></td></td></td></td>	WT <td>R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td></td></td></td></td>	R P M <td>DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td></td></td></td>	DRILLED <td>HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td></td></td>	HRS <td>REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td></td>	REMOVED <td>HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td></td>	HRS <td>REMOVED <td>HRS <td>REMOVED</td> </td></td>	REMOVED <td>HRS <td>REMOVED</td> </td>	HRS <td>REMOVED</td>	REMOVED
9	8 3/4	J.H.H.	31	NO	EM968	40	50	134	5 2/10				
MUD													

REMARKS  
TRIP OUT SERV & RE-SET TUBULARS 130 15  
RIG SERV & SERVO 150 P. 130 1-5  
TRIP IN SLOW. 145 3:30  
SERVO SET IN WEL. F.R.K. 1:00 4:00  
L.R.G. 2:00 4:00

DRILLER'S SIGNATURE  
Daily 8 3/4 Well  
Tideville Sea Rig & Well  
Daily  
Tideville & WRI Line Survey & SERVO 115 145 1/2  
Daily  
Tideville Sea Rig & Well  
Daily 4:00 4:45

TELEPHONE COST 10

REG SERV 113 5 1/2 P.S.  
SERVO @ 5208 - 3/4  
Daily 2 1/4 Hole w/ 4000 ft SERVO, 430 700 2 1/2  
SERVO @ 5210 - 1 0 700 705 1/4  
To port  
Kapslak 56 b 4 ft WINDS 910 100 1  
31.0 33' of DRLS LINE 11 05 1005 40  
RIG IN W/ B.T. 10 10 05 1200 14  
DRILLING 20 ft. L.P. 30 ft. WEL  
A. J. Greenwood

CASING REPORT  
RAN & CEM  
CLASSIFICATION  
PLUG DOWN  
WATER COST  
TOTAL COST





STANDS SINGLE

DRILL COLLARS

NO. 21 634 274 4302

REMAIN HRS 1650 100

DEPT. 11.21

REMARKS

START STOP

Table with columns for FROM, NO., TYPE, JETS, SERIAL, WT, R.P.M., COLLARS, HRS, REMAIN, HRS, DEPT., SURVERS. Includes entries for 1744, 834, 12MN, 4AM, MUD ADDITIVES, and 8 834 M88.

Table with columns for NO., TYPE, JETS, SERIAL, WT, R.P.M., COLLARS, HRS, REMAIN, HRS, DEPT., SURVERS. Includes entries for 4970, 8 834 M88, and 8 834 M88.

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Table with columns for NO., TYPE, JETS, SERIAL, WT, R.P.M., COLLARS, HRS, REMAIN, HRS, DEPT., SURVERS. Includes entries for 4970, 8 834 M88, and 8 834 M88.

REMARKS: L 11.21, 12.21, 1.21, 2.21, 3.21, 4.21, 5.21, 6.21, 7.21, 8.21, 9.21, 10.21, 11.21, 12.21, 1.21, 2.21, 3.21, 4.21, 5.21, 6.21, 7.21, 8.21, 9.21, 10.21, 11.21, 12.21.

REMARKS: Dalg 234 Hole w/ 30 m KLNH 400 545 130. SURVY @ 4990 - 1 1/2. R.P. 500 v B.O.P.S. 600 610 44. Dalg w/ 30 m v 60 RPM 610. 500 510 44. Dalg w/ 30 m v 50 RPM - 1 1/2. SURVY @ 5085 - 1 1/2. 1095 44. Dalg w/ 30 m v 45 RPM. 1100 1100 44. 1100 1200 1.

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