

UNICAL PAN AM TRAINER K-70

WELL NAME Unical Pan Am Trainer K-70
FIELD
LOCATION: Unit K Area: 70 Grid 60-10; 120-15
Latitude 60-09-40 Longitude 120-27-36
From Established Reference Marker

K-70 - 60 - 10 - 120 - 15
Rig Release Date:
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No. Application to Commingle Production before Measurement. Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method. Data for Back Pressure Test on Natural Gas Wells — Vitter's Method. M.P.R. — Oil — Calculations. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Equipment Report. Well Card. Well Visit. Daily Drilling Reports. Logs. Large scale Small scale



Date Issued Dec. 3, 1965

WELL COMPLETION DATA

(To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.)

Permit No. 2706

Lease No.

Exploratory Licence No. U32

Exploratory Licence No. 702 & 1007

Exploratory Licence No. 702 & 1007

Discussion

K

Section

70

Grid 60°-10' x 120°-15'

Latitude $60^{\circ}-09'-40''$

Longitude 120°-27'-36"

From Established Reference Marker Pure Oil Co. Seismic Survey Feb. 12, 1965

Shot Point H-4 by Seismatch (1965) Ltd. 300' SW of Shot Point

	DATE	DEPTH
Spudded	1/10/66	
Suspended		
Returned		
Finished Drilling		
Deepened		
Complete (gas/oil)		
Abandoned	2/20/66	7396 ⁴
Rig released	2/21/66	7398 ⁴

Pool (S)

Interval(s) open to production

Elevation: Gr. 2238

K.B. 2255

Drilling Contractor & Rig No. Arrow Drlng. #7

Contractor's Licence No. 24240

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 13-3/8	H-40 J-55	48	196	213	*200 plus 2% CaCl ₂
2. 9-5/8	J-55	36	1486	1505	600 Oilwell + 2% CaCl ₂
3.					
4.					* Reamsted with 50 lbs. + 2% CaCl ₂
5.					
6.					

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracturing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
2/19/66	7395	7100	144 sxs plus HR-4								
2/20/66	6400	6050	175 sxs felt @ 6005								
2/20/66	1555	1455	76 sxs plus 3% CaCl ₂ felt at 1400'								
2/20/66	Surface		5 sxs welded on steel plate								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	P.S.I.B.H.P.	I.P.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	2/2/66	Slave Point	6125	6220	60	30	90	1389	302	64	64	2998	301	Fair air blow steady. No gas. Rec. 30' mud.
2	2/4/66	Slave Point	6220	6360	120	35	120	2868	2625	379	312	3090	3080	Strong Initial Puff. Gas to surface 3 mins. @ 1.250 MCF/D decreasing to 517 MCF/D after 55 mins. Remaining steady. Rec. 570' gassy salt water, 270' salt water cut mud. Good initial puff. Gas to surface 4 mins. @ 362 MCF/D decreasing to 280 MCF/D. Rec. 4' mud.
3	2/5/66	Slave Point	6220	6300	60	30	120	2897	2988	74	246	3073	2837	Weak blow throughout test. Rec. 120' mud.
4	2/11/66	Elk Point	6925	7088	60	30	60	2345	2345	185	455	3443	3414	

Lab. No.	Sample	From	To	Source	Remarks	PRESENT STATUS OF WELL			
CBH-2 WA-3535	Water	6125	6220	DST No. 1	Resistivity Only (2 samples)	Oil		(Interval)	
CBH-2 WA-3535	Water	6220	6360	DST No. 2	(2 samples)	Gas		(Interval)	
CBH-2 WA-3535	Water	6220	6300	DST No. 3		Dry			
CBH-3- GA-205	Gas	6220	6360	DST No. 2		Susp.			

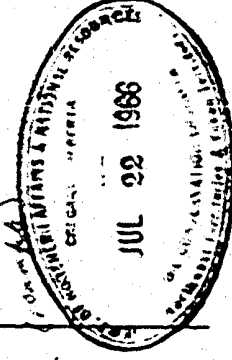
Company: Union Oil Company of Canada Limited

Signed by: C. M. Warke

Petroleum Engineer

Date: July 20, 1966

Forms to be prepared in duplicate and forwarded to the
Conservation Engineer, Calgary, Alberta.



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to ~~suspend drilling~~—

Name and number of well **Union Pan Am Trainer K70**
Location: Unit **K** Section **70** Grid **600 - 10' x 1200 - 15'**
Latitude **60° 09' 24"** Longitude **120° 27' 36"**
From Established Reference Marker **Pure Oil Co. Seismic Survey Feb. 12/1965**
Shot Point H-4 by Seismatch 1965 Ltd., 300' SW of shot point
Permit No. **2706'** Lease No. _____

Pan American Petroleum Corporation
(Permitter, Lessor, Lessee)

Date of commencement of proposed program _____

February 19, 1966OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at _____
Gas at **6220-6300**
Water at **6300-6360**
Total Depth **7390** Date of last operations **February 17, 1966**
Present condition of well **Abandoned**

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1. 13-3/8	48	196	213	200 (Displace Plug)	Nil
2. 9-5/8	36	1486	1505	600 (Displace Plug)	Nil
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	7390-7100	Red Beds	144	
2	6400-6050	Slave Point	175	Felt at 6005'
3	1555-1455	Intermediate casing	76	Felt at 1400'
4	Surface		5	Welded on Steel Plate

The following logs have been run **Ind. -E Log, Gamma-Sonic (BHC) Micro-Cal., Form. Density**
Other operations proposed _____

Operations to be carried out by **Arrow Dring. Rig #7** Contractor Licence No. **24240**
Address **309 - Seventh Ave. S.W. Calgary, Alta.** Address
Responsible Agent in field **C. E. Smith**
Dated at **Calgary**, this **25** Day of **May** 19 **66**
Signed by **[Signature]** Company **Union Oil Co. of Canada Ltd.**
Title **Operator's Explorer Licence No. 726-1967 715**
Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Confirming oral approval given by **Mr. B.H.J. Thoms** on **18th February 1966**Dated **31st May**, 19 **66****[Signature]**
Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer, Calgary, Alberta



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application to Change a Well Name

Application is made hereby to change the name of the well, recorded in the Well-names Register as—

UNICAL PAN AM TRAINOR K-70

(Old name)

to UNION PAN AM TRAINOR K-70

(Proposed new name)

Well Location

Location: Unit K Section 70 Grid 60° - 10' x 120° - 15'

Latitude 60° - 09' - 40"

Longitude 120° - 27' - 36"

From Established Reference Marker 300' southwest of shot point H-4 (by Seismatech 1965 Ltd.) of The Pure Oil Company seismic survey of Feb. 12, 1965.

Reason for Changing Well Name

Union Oil Company of Canada Limited purchased the Canadian assets of Union Oil Company of California, effective December 20, 1965. Union Oil Company of Canada Limited licence number for operating in the Northwest Territories is 720.

Dated at Calgary, Alberta this 30th day of December 1965

Signed by

Title Joint Interest Superintendent

Company Union Oil Company of Canada Limited

(For Resource Management Division use only)

APPROVED

This application has been examined and approved:

Date 30th December, 1965

Oil Conservation Engineer

Forms to be submitted in triplicate to the Oil Conservation Engineer, Calgary, Alberta.



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill.

Name and number of well UNION PAN AM TRAINER K-70
Location Unit K Section 70 Grid 60° - 10' x 120° - 15'
Latitude 60° - 39' - 40" Longitude 120° - 27' - 35"
From Established Reference Marker 300' southwest of shot point K-4 (by Seismatech 1965 Ltd.) of The Pure Oil Company seismic survey of Feb. 12, 1965.
Elevation Ground 2238' (est.) K.B. 2253' (est.) feet above sea-level.
Well is expected to produce from Slave Point formation at a depth of about 6050 feet.
Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. 8706 Lease No. 63,854 Acreage 63,854
Permittee, licensee, or lessee Pan American Petroleum Corporation
Exploratory Licence No. 725
Surface owned by Crown or Crown
(If allocated submit name and address of owner and occupant.)
Petroleum and natural-gas rights owned by Crown

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size (Inches)	Weight (Lb./Ft.)	Grade	Brand	New or Used	Estimated Depth	Ends of Cement
1. 13-3/8"	46	H-40	Mann.	New	200	Circulated
2. 9-5/8"	36	J-55	Mann.	New	1500'	Circulated
3. 5-1/2"	17	J-55	Mann.	New	T.D.	500
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment. Surface and intermediate casing to control surface waters. Blow-out preventers will be used to control high pressure oil and/or gas.

Well will be drilled with (Rotary) Rig No. 7 by Arrow Drilling Co. Ltd.
(Contractor) (Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. 24240
At well C.E. Smith At registered office J. T. Duree
Address Ft. Nelson, B.C. Address 1200 Elveden House, Calgary, Alberta
It is understood that if changes become necessary, notice of the change of plan will be submitted.
Dated at Calgary, Alberta this first day of December 19 65
Signed by [Signature] Company Union Oil Company of California
Title Division Operations Manager Operator's Licence No. 1007

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—

The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

Dated 3rd December 19 65 Oil Conservation Engineer [Signature]

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

28-11-4-14

FINAL WELL REPORT

UNION PAN AM TRAINOR K-70

AT 09° 43' N. - 170° 25' 30" W.

NORTHWEST TERRITORIES

PREPARED BY

V. WAY SMITH ASSOCIATES LTD.

MARCH, 1966

UNION PAN AM TRINOR K-70

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INTRODUCTION

Union Pan Am Trainor K-70 is located in the Northwest Territories approximately 10 miles north of the British Columbia - Northwest Territories boundary and 20 miles northwest of the extreme northwestern corner of the Province of Alberta. It is approximately 140 miles northeast of Fort Nelson, British Columbia. This places it approximately 10 miles southeast of "Pure Pan Am Trainor Lake C-39", and roughly 25 miles east of "Imperial Island River No. 1".

Union Pan Am Trainor K-70 was drilled in January and February of 1966. An intermediate string of casing was run at 1,510' and the hole was drilled with air from 1,510' to 6,040' at which depth the system was converted to mud.

A set of tables has been included which gives the data pertinent to the well. In addition to the tabulated sample and core record, a strip log has been previously submitted which shows the lithology, formation tops, drilling times, cored interval and drillstem tests.

UNION OIL COMPANY OF CANADA LIMITED

CABING RECORD

WELL NO. Trainer K-70Wildcat

DRILLING REPORT

(FIELD)

North West TerritoriesArrow Rig #713 3/8 C @ 2139 5/8 C @ 1505Lat. 60° 09' 44" Long. 120° 27' 36"

(TOOLS)

(PERIOD ENDING)

NO. TOLONG	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
					(Refer Manual of Instruments)		
	NAME:			Unical Pan Am Trainer K-70			
	LOCATION:			Latitude 60° 09' 44" Longitude 120° 27' 36" North West Territories			
				Permit No. 2706			
				Operating Licence No. 720			
	ELEVATIONS:			Ground 2238			
				K.B. 2255			
				K.B. to Grd. 17.0'			
	SPUEDDED:			8:30 PM January 10, 1966			
	COMPLETED DRILLING:			2:00 AM February 17, 1966 36 days 5 1/2 hours.			
	RIG RELEASED:			12:00 Noon February 21, 1966 40 days 15 1/2 hours.			
	DEPTHS:			Driller 7390'			
				E-Log 7395 in Pre-Cambrian			
	STATUS:			Drilled and Abandoned Precambrian.			
	CASING:			13 3/8" C 213' with 200 sacks Oilwell plus 2% CaCl2.			
				9 5/8" C 1510' with 600 sacks Oilwell neat.			
	DRILLING FLUID:			Ge-Q-Broxin - Water base. Air drilled 1510 to 6040'			
	ABANDONMENT:			Plug No. 1 7395 to 7100' 144 sacks plus HR-4.			
				Plug No. 2 6400 to 6050' 175 sacks. Felt at 6005'			
				Plug No. 3 1555 to 1455' 76 sacks plus 3% CaCl2.			
				Cut off casing 3' below ground. Placed 5 sacks plug and weld on plate.			
	FORMATION TOPS:			Mississippian	2054	+ 201	
				Kotcho	2798	- 543	
				Ls Marker	3323	-1068	
				Utan	4290	-2035	
				Simpson Shale	4340	-2085	
				Bitumous Shale	6035	-3780	
				Slave Point	6124	-3869	
				Elk Point	6610	-4355	
				Elk Point Dolomite	6935	-4680	
				Red Beds	7115	-4860	
				Red Beds Sandstone	7129	-4874	
				Pre-Cambrian	7345	-5090	

C. M. Warke

DISTRICT ENGINEER

WELL NO. Trainor K-70

Wildcat

DRILLING REPORT

(FIELD)
North West Territories

Arrow Rig #7

13 3/8 C @ 213
9 5/8 C @ 1505(PROVINCE)
Lat. 60° 09' 14" N Long. 120° 27' 36" W
LSD. SEC. TWP. RGE. W. N.

(TOOLS)

(PERIOD ENDS)

NO. TOLOG	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
					(State Name of Instrument)		
CORING:				Core No. 1 6220 - 6273	Rec. 53'	19 hours	
FORMATION TESTS:				Johnston D.S.T. No. 1 6125-6220	SLAVE POINT	Conventional	
				ISI 30 VO 60 FSI 90			
				Blow: Fair air blow remaining steady.		No gas.	
				Rec. 30' mud.			
				IHP 2998 ISIP 1389 IFF 64 FFP 64 FSIP 302 FHP 301			
				D.S.T. No. 2 6220 - 6350	SLAVE POINT	Conventional	
				ISI 35 VO 120 FSI 120			
				Blow: Strong initial puff. Gas to surface 3 minutes at 1250 MCF/D			
				decreasing to 517 MCF/D after 55 minutes. Remaining steady re-			
				mainder of test.			
				Rec. 570' gassy salt water. 270' salt water cut mud.			
				IHP 3090 ISIP 2868 IFF 379 FFP 312 FSIP 2625 FHP 3080			
				D.S.T. No. 3 6220 - 6300	SLAVE POINT	Straddle	
				ISI 30 VO 60 FSI 120			
				Blow: Good initial puff. Gas to surface 4 minutes at 362 MCF/D			
				decreasing to 280 MCF/D.			
				Rec. 4 feet mud.			
				IHP 3073 ISIP 2897 IFF 74 FFP 246 FSIP 2988 FHP 2837			
DRILLING CONTRACTORS:				Arrow Drilling Company.	Rig No. 7		
SURVEYED BY:				The Pure Oil Company Seismic Survey February 12, 1965			
				Shot point H-4 by Seismatch 1965 Ltd.			
ROADS & LOCATION:				Trails and lease by Tompkins Tracking, Fort Nelson BC-100 miles north			
				of Fort Nelson to N.W.T. Border, 32 1/2 miles east, 17 miles N.E. and			
				12 miles S.E. to location.			
WATER:				Water from nearby lake (unnamed) by Contract Trucks.			
1966				<u>Daily Drilling Report</u>			
January							
10		0	20				Spudded 8:30 PM Jan. 10/66
11		20	206		60 160	3/4 1/2	Drilling 9 7/8" Hole

C. M. Warke

DISTRICT ENGINEER

UNION OIL COMPANY OF CANADA LIMITED

CASING RECORD

WELL NO. Trainor K-70

Wildcat

DRILLING REPORT

(FIELD)
North West Territories

Arrow Rig #7

(TOOLS)

(PROVINCE)
Lat. 60° 09' 44" N Long. 120° 27' 36" W
LEO 270 700 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

(PERIOD ENDING)

13 3/8 C @ 213
9 5/8 C @ 1505

NO. TOOL JOINT	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1966 January						
12		206	230		230	3/4	Reaming hole to 17 1/2"
13		230	230				Work on pump and condition hole.
14		at	230	Ran and cemented 7 joints of 13 3/8 L8# H-40 ST&C @ 213' KB with 200 sacks oilwell cement plus 2% CaCl ₂ . Baker Float shoe on bottom. Started cementing @ 10:19 AM. Plug down 10:45 AM with 1000 psig.			
15		at	230	Backed off top joint while trying to screw on casing bowl. Wait on orders.			
16		at	230	Wait on Orders. Prepare to run csg. on to top joint. Thaw kelly. Run in hole with bell sub.			
17		at	230	Run two joints of casing and stab into second joint. Cement with 50 sacks plus 2% CaCl ₂ .			
18		at	230	Head up, chase plug to 200 feet. Drill oct plug No. 1 and 2.			
19		230	880		520	3/4	Drill 12 1/4" hole.
					810	3/4	
		880	1478		1110	3/4	
					1413	1 1/2	
21		1478	1505				Ran 50 joints (1486.17') 9 5/8" 36# J-55 ST&C Mann. at 1505'. Circulate casing.
22		at	1505				Circulate casing and wait on cement truck.
23		at	1505				Cemented casing with 600 sack oilwell. Started cementing at 9:25 PM. Plug down at 10:10 PM with 1000 psi. Cement returns to surface.
24		at	1505				Rigging up air equipment.
25		1505	1510				Drilled out with mud. Displaced hole to air.

C. M. Warke

DISTRICT ENGINEER

UNION OIL COMPANY OF CANADA LIMITED

CASING RECORD

WELL NO. Trainer K-70Wildcat(FIELD NO)
North West Territories

DRILLING REPORT

Arrow Rig #7

(TOOLS)

Lat. 50° 59' 44" Long. 120° 27' 36"

(PERIOD ENDING)

13 3/8 C @ 213
9 5/8 C @ 1505

NO. TURNS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1966 January				(Note Sign of Inclinor)		
26		1510	1525				Replace Rotary Head and Blow hole dry. 8 3/4" hole. Air Drill
27		1525	2745		1735 1950 2250 2560	2 3/4 2 1 3/4 1 3/4	2400' SCF/Min. AV 3000'/Min. 90 psi
28		2745	3693		2869 3175 3500	2 1 1	
29		3693	4706		3813 4100 4429	1 7/8 1 1/2	
30		4706	6018		4760 5070 5470	1 1/4 1 1/4 1 3/4	
31		6018	6040				Mixed mud. Displaced and filled hole.
	1966 February						
1		6040	6220				
2		at	6220		6220	2	Testing. D.S.T. No. 1
3		6220	6242				Core No. 1
4		6242	6360				D.S.T. No. 2
5		at	6360				D.S.T. No. 3
6		at	6360				
7		6360	6637		6637	1 1/2	
8		6637	6765				
9		6765	6881				

C. M. Warke

DISTRICT ENGINEER

UNION OIL COMPANY OF CANADA LIMITED

CASING RECORD

WELL NO. Trainer K-70Wildcat

DRILLING REPORT

(FIELD)
North West TerritoriesArrow Rig #7Lat. 60° 05' 14" N Long. 120° 27' 36" W

(TOOLS)

(PERIOD ENDING)

13 3/8 C # 2139 5/8 C # 1505

NO. FOURS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1966 February				(State Make of Instrument)		
10		6881	6958				
11		6958	7046				D.S.T. No. 4
12		7046	7075		7046	1 3/4	
13		7075	7088				
14		7088	7164		7164	2 1/4	
15		7164	7266				
16		7266	7380				
17		7380	7390				Logging
18		at	7390				Logging 2 1/4 hours.
19		at	7390				Abandoning. Plug No. 1
20			7390				Plug No. 2. Felt at 6005'. Plug No. 3. Felt at 1400'. 5 sax on surface & steel plate.
21			7390				Rig released 12 Noon.

C. M. Warke

DISTRICT ENGINEER

GENERAL INFORMATION

WELL NAME Union Pan Am Trainor K-70 CLASS Wildcat

LOCATION Unit K - Section 70 PROVINCE Northwest Territories
Grid 60° - 10' x 120° - 13'

CO-ORDINATES 60° - 09' - 40" North - 120° - 27' 36" West
300' Southwest of shotpoint. H-4 (Selamatich)

ELEVATION: 2238 (est.) Grd. 2255 (est.) K.B.
KB - Grd = 17.30

DRILLING AUTHORITY: No. 207 Dated Dec. 3, 1965
Permit No. 2706
Acres 63,854

TITLE HOLDER Pan American Petroleum Corp. Op. Lic. No. Exploratory Lic. No. 715
Permit No. 2706

TYPE & NO. OF TITLE

OPERATOR: Name Union Oil Co. of Canada Ltd. Exploratory Licence No. 715
Op. Lic. No. Operators Lic. No. 1007

Address 709 - 8th Ave. S.W. - Calgary, Alberta
1200 Elveden House, Calgary, Alberta.

DRILLING CONTRACTOR: Name Arrow Drilling Co. Ltd. Rig No. 7

Type of Rig Rotary - GA 500 - Lic. No. 29-24340

SERVICE RIG OPERATOR _____ Rig Lic. No. _____

WELL STATUS D + A.

DATES: Spudded 3:30 P.M. Finished Drilling Feb. 17, 1966
Jan. 10th, 1966

Completed or Abandoned Abandoned Rig Released February 21, 1966

Release of Service Rig or Equipment _____

DEPTHS: T.D. 7397 DRLR, 7394 Sch. P.B.T.D. _____

HOLE SIZE 17-1/2" O' - 230', 12-1/4" 230 - 1345, 8-3/4" 1505 - 7397

Marker	DRILLING DEPTH			Elevation	
	Sample	Core	Log		
Mississippian	2050		2054	+205	+201
Devonian Kotcho	2802		2798	-547	-543
Limestone Marker	3320		3323	-1065	-1068
Utahr.	4295		4290	-2040	-2035
Simpson	4342		4340	-2087	-2085
Bituminous Shale	6035		6035	-3790	
Slave Point	6120	Core No. 1 6220-6273	6124	-3865	-3869
Elk Point	6610		6610	-4355	
Elk Point dolomite	6935		6935	-4690	
Redbeds	7115		7115	-4860	
Redbed sandstone	7125		7129	-4870	-4874
Pre-Cambrian	7345		7345	-5090	
Total Depth	7390		7324	-5135	-5139

therefore samples missing over several intervals from 230° to 730°

SAMPLES: Interval

From

To

cloth bags sent out to Dept. of N.A. - Calgary
Distribution & Storage ~~Cloth bags down to total of~~

Distribution & Storage

Dept. of N.A. - Calgary
Cloth bags down to total depth - Final shipment sent out

~~from Earl Nelson on Feb. 19th, 1955~~

CORE RECORD

[illegible]

ENGINEERING & COMPLETION SUMMARY

LOG RECORD

Company	Type	Run No.	Date	Interval
Schlumberger	Geoph. Comp. Sonic	1	Feb. 17 1966	7390 - 1500
"	I.E.S.	1	Feb. 17	7394 - 1500
"	Micro Cal.	1	Feb. 17	7394 - 6100
"	For malleable Density	1	Feb. 18	1510 - 7394

CASING RECORD

Hole Size	Casing Size	Wt.	Grade	Manufacturer	KB Setting Depth	Amount Cement	Cement Additives	Date
17-1/2"	13-5/8"	485	H-40	Japanese	+ 2043	200sx	2%CaCl ₂	Jan. 14
-	Run in joint	-	-	-	-	50sx	2%CaCl ₂	Jan. 17
12-1/2"	9-5/8"	365	J-55	Japanese	+ 750	600sx	2%CaCl ₂	Jan. 23

CEMENTATION RECORD

Plug No.	Date	Zone	Interval	Amount of Cement Used	Depth Felt
1	Feb. 19		7395 - 7100	144 sacks + HP-4	
2	Feb. 20		6400 - 6050	175 sacks	6005
3	Feb. 20		1555 - 1455	75 sacks + 2% CaCl ₂	1400
		Cut off casing 3' below ground. Placed 5 sacks plug and weld on plate			

DEVIATION SURVEYS

Depth	Degrees Inclination	Instrument	Depth	Degrees Inclination	Instrument
60	3/4	Totco	2250	1-3/4	Totco
160	1/2	Totco	2560	1-3/4	Totco
230	3/4	Totco	2869	2°	Totco
520	3/4	Totco	3175	1°	Totco
810	3/4	Totco	3500	1°	Totco
1110	3/4	Totco	3813	1°	Totco
1413	1-1/2	Totco	4100	7/8°	Totco
1735	2-3/4	Totco	4429	1-1/2°	Totco
1930	2	Totco	4760	1-1/4°	Totco

ENGINEERING & COMPLETION SUMMARY**LOG RECORD**

Company	Type	Run No.	Date	Interval

CASING RECORD

Hole Size	Casing Size	Wt.	Grade	Manufacturer	KB Setting Depth	Amount Cement	Cement Additives	Date

CEMENTATION RECORD

Plug No.	Date	Zone	Interval	Amount of Cement Used	Depth Felt

DEVIATION SURVEYS

Depth	Degrees Inclination	Instrument	Depth	Degrees Inclination	Instrument
3070	1-1/4°	Totco			
3470	1-3/4°	Totco			
5805	2°	Totco			
6220	2°	Totco			
6637	1-1/2°	Totco			
7045	1-3/4°	Totco			
7154	2-1/4°	Totco			
7390	2°				

CALGARY, ALBERTA
UNION OIL COMPANY OF CANADA LIMITED

FORMATION TEST SUMMARY

TEST NO. 1 TYPE Bottom Hole DATE Feb. 3, 1966
INTERVAL: 6125 - 6220 FORMATION: Slave Point
TIMES: ISI 30 MIN. V.O. 60 MIN. FSI 90 MIN.
DESCRIPTION: fair initial puff - becoming good after 3 min. fair air
blow - steady - no gas to surface

RECOVERY: 30' mud*(Field Pressures)*

PRESSURES: IHP 2998 ISIP 1389 IFP 64
FHP 3001 FSIP 303 (leaking) FFP 64

BHT _____

TEST NO. 2 TYPE Bottom Hole DATE Feb. 5, 1966
INTERVAL: 6220 - 6360 FORMATION: Slave Point
TIMES: ISI 35 MIN. V.O. 120 MIN. FSI 120 MIN.
DESCRIPTION: strong initial puff - gas to surface 2 min. blow on 1/2"
surface choke, 1/2" B.H. choke 716 MCFFPD - for 60 min. on 1/2"
B.H. choke only decreasing from 1.25 MMCFPD to .517 MMCFPD

RECOVERY: 270' salt water oil mud, 570' gassy salt water*(Field Pressures)*

PRESSURES: IHP 3090 ISIP 2868 IFP 379
FHP 3080 FSIP 2625 FFP 342

(incomplete)

BHT _____

CANGARY, ALBERTA
UNION OIL COMPANY OF CANADA LIMITED

FORMATION TEST SUMMARY

TEST NO. 3 TYPE Straddle DATE Feb. 6, 1966INTERVAL: 6220 - 6300 FORMATION: Slave PointTIMES: ISI 30 MIN. V.O. 60 MIN. FSI 120 MIN.DESCRIPTION: good initial puff-good air blow-gas to surface 4 min. gas measured
at 382 mated decr. to 280 matedRECOVERY: 4' heavy drilling mud

(Field Pressures)

PRESSURES: IHP 3073 ISIP 2840 IFP 630-74 (partial plugging)
FHP 2975 FSIP 2730-2986 FFP 246
(complete)

BHT _____

TEST NO. 4 TYPE Bottom Hole DATE Feb. 13 1966INTERVAL: 6925 - 7088 FORMATION: Elk PointTIMES: ISI 33 MIN. V.O. 60 MIN. FSI 60 MIN.DESCRIPTION: Initial puff very weak to weak in 10 minutes - weak air blow
throughout.RECOVERY: 120' heavy mud - (not salty, not gassy)

(Field Pressures)

PRESSURES: IHP 3448 ISIP 2365 (incomplete) IFP NO (false)
FHP 3400 FSIP 2342 (incomplete) FFP 332 (false)

BHT _____

Tool plugged periodically throughout test.

CALGARY, ALBERTA
UNION OIL COMPANY OF CANADA LIMITED

DRILLING MUD RECORD

Well Name Union Pan Am Trainor K-70

Location

Prov. Northwest Territories

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss CC.	pH	F.C.	ADDITIVES In pounds	
Jan. 11	Surface Hole	8.5	35				Nil (Native solids)	
12	"		50				2200 Gel 100 plaster	
13	230		66				7000 Gel 59 Lime, 100 cem.	
14	"		60				6,000 Gel	
15 - 18	setting surface casing - preparing to drill ahead							
		9.1					2500 Gel	
19	880	9.0	35-42				9 ex fibertex, 5 ex. saw- dust.	
20	1478	9.0	40-34				nil	
21	1505	9.0 9.1	35-42				2500 Gel 10 ex sawdust	
22	1305						nil	
23	1505		35				2000 Gel 25 ex sawdust	
24	1505						nil	
25	1510						displaced mud with water	
26 - 29							(air drilling)	
30	6028	drilling with air mixed mud in tanks					4500 Gel	250 Qx
							600 Cau	200 Gel
31	6040	8.7	40-61	6.2	10		8500 Gel	2250 Qx
		8.9	40	6.1	10.5		800 Cau	700 Gel
		8.9	40	8.0	12.5		5300 Gel	350 Gel
Feb. 1	6220	9.1	66	5.4	11.0	2/32	600 Qx	
			65	3.6			7000 Gel	
2	6220	9.1	107	5.0	11.0	2/32	100 Gel	
							1800 Gel	
3	6242	9.0	72	6.0	11.0	2/32	400 Qx	
		9.2	103	5.4			1500 Gel	50 Gel
4	6360	9.4	107	6.2		2/32	400 Qx	50 CMC
5	6360	Testing						
6	6360	Testing						
		8.8	79-		11.0			
7	6637	9.1	123	6.0	9.2	2/32	nil	
			140		9.0		1000 Gel	350 Qx
8	6765	9.2	120	6.0	9.5	2/32	150 Cau	
		9.0	75	6.2	9.5		2000 Gel	50 Gel
9	6881	9.2	100	6.0	8.5	2/32	600 Qx	50 CMC
		9.2	62	6.0			5500 Gel	100 CMC
10	6958	9.6	143	6.8	9.0	2/32	100 Cau	

CALGARY, ALBERTA
UNION OIL COMPANY OF CANADA LIMITED

DRILLING MUD RECORD

Well Name Union Pan Am Trainor K-70

Location

Prov. Northwest Territories

DATE	DEPTH	Weight lbs./gal.	Visc. Sec.	Water Loss CC.	pH	F.C.	ADDITIVES	
Feb. 11	7046	9.1 9.6	67 120	5.1 5.8	9.0 9.5	2/32	5500 Gel 100 Cau	100 CMC
12	7075	8.9 9.4	110 240	5.8 6.2	9.5	2/32	1600 Gel 50 Cau	200 Qx 50 Cel
13	7088	9.5	high	5.5	8.5	2/32	nil	
14	7164	9.2 9.5	high	6.0 7.4	8.0 9.5	2/32	450 Cau 1700 Qx	175 Cel 50 CMC
15	7266	8.9 9.3	300 125	6.4 6.6	8.5 9.0	2/32	500 Cau 1750 Qx	100 cel
16	7380	9.3 9.6	210 85	4.4 7.4	9.5	2/32	1500 Gel 400 Cau	4650 Qx
17	T.D. 7390	9.7 9.9	71 190	5.7 5.0	9.5 10.5	2/32	7500 Gel 1000 Qx	150 Cel
18	T.D. 7397						- Logging -	

LEGEND

Gel	Aquagel	(100 pound sacks)
Cau	Caustic	(100 pound barrels)
Qx	Quebroxin	(50 pound sacks)
Cel	Cellex	(50 pound sacks)
CMC	CMC regular	(50 pound sacks)

Alcan Division

CALGARY, ALBERTA

1200 Elveden House

UNION CELL COMPANY OF CANADA LIMITED BIT RECORD

BIT NO.	BIT MFR.	BIT SIZE	BIT TYPE	SERIAL NO. OF BIT	DEPTH OUT	FOOTAGE	HOURS RUN	WEIGHT 1000 LBS.	ROT RPM	PUMP PRESSURE	REMARKS, FORMATION, ETC
1	H-W	9-7/8	OGC	DG 711	230	230	13-1/4	5--0	140	300	drilled pilot hole
2	Reed	17-1/2	Reamer	316R	230						reamed pilot hole
3	H-W	12-1/4	OGC	63962	110 1/2	955	25-1/4	20	140	300-400	full run
4	H-W	12-1/4	OGC	63993	1505	320	7	15	120	300	pulled to run intermediate string
5	HTC	8-3/4 IG	OGC	65431	1810	5	3-1/2	10	70	600	plugged bit
CONVERTED TO AIR DRILLING AT 1510'											
6	H-W	8-3/4	797X1	CS 281	6040	4530	86-1/2	20	60	90-95	recovered with cones "fair", Bearings "worn"
7	H-W	8-3/4	OWV	49652	6220	180	17-1/4	35	80	700	pulled to test
8	(corehead) Christensen	8-5/8	core-head	EC 8504	6273	53	11	10	65	1000	pulled because core jammed in barrel
9	Reed	8-3/4	YM	N 32936	6360	67	7-1/2	40	65	700	pulled to test
10	H-W	8-3/4	OWV	56141	6637	277	21-3/4	50	80	750	full run
11	H-W	8-3/4	OWV	EP 742	6819	182	18-1/2	50	65	750	full run
12	H-W	8-3/4	OWV	56985	6956	137	86-1/4	50	65	750	full run
13	H-W	8-3/4	OWV-J	57823	7046	90	14-1/2	50	65	750	full run
14	H-W	8-3/4	W7	98111	7088	42	8-1/2	50	45	700	pulled to test
15	H-W	8-3/4	W7	48286	7164	76	18	45	60	750	full run
16	H-W	8-3/4	W7	39529	7266	102	20	45	65	700	full run
17	H-W	8-3/4	W7	49318	7390	124	21	50	60	800	full run

DAILY PROGRESS

DATE	PREVIOUS TD	PRESENT TD	FOOTAGE	OPERATIONS
Jan. 10				Drilling, pilot hole - spudded Jan. 10th 8:30 P.M.
				9-7/8" hole - 4-1/2" drillpipe.
11				Drilling pilot hole
12		230	230	finished drilling surface hole conditioned mud
13	230	130		reamed pilot hole to 17-1/2" conditioned mud
14	230	230		ran surface casing - accidentally backed off top joint
15	230	230		waiting on orders
16	230	230		waiting on cement truck, thawing equipment
17	230	230		re-cemented top joint - woc - heading up B.C.P.'s
18	230	230		preparing to drill out
19	230	880	650	drilled out 12-1/4" - lost circulation
20	880	1478	598	drilled
21	1478	1505	27	drilled ran intermediate string waiting on cement truck
22	1505	1505		waiting on cement truck
23	1505	1505		waiting on cement truck - cemented casing 10.10 P.M.
24	1505	1505		waiting on cement - preparing to drill ahead
25	1505	1510	5	drilled out 8-3/4" - displaced mud with water.
26	1510	1525	15	rotary head, fractured - made repairs - drilled 15' with air
27	1525	2745	1220	drilled
28	2745	3693	948	drilled
29	3693	4706	1013	drilled
30	4706	6018	1312	drilled and began mixing mud in mud tanks
31	6018	6040	22	pipe tally 6036' - mixing mud to drill ahead.
Feb. 1	6040	6220	180	drilled with mud - waiting on tester.

CALGARY, ALBERTA

UNION OIL COMPANY OF CANADA LIMITED

DAILY PROGRESS

DATE	PREVIOUS TD	PRESENT TD	FOOTAGE	OPERATIONS
Feb. 2	6220	6220		waiting on tester made up test tool
3	6220	6242	22	ran DST #1 - ran in with core barrel for Core #1 - coring
4	6242	6360	118	completed coring operation - drilled ahead - preparing to test (DST #2)
5	6360	6380		ran DST #2 - conditioned hole - preparing for DST #3
6	6380	6380		ran DST #3 - preparing to drill ahead
7	6380	6637	277	drilled
8	6637	6765	128	drilled
9	6765	6881	116	drilled
10	6881	6958	77	drilled
11	6958	7046	88	drilled - prepared to test
12	7046	7075	29	waited on jars - ran back in - drilled ahead
13	7075	7088	13	drilled - jars arrived - ran DST #4 - preparing to drill ahead
14	7088	7164	76	drilled
15	7164	7266	102	drilled
16	7266	7390	114	drilled
17	7390	7390	10	reached T.D. - conditioning - preparing to log
				depth correction 7390 - 7397
				logging
18	7397	7397		logging - ran borehole comp. sonic w/ caliper, IES, micro-log caliper -

CALGARY, ALBERTA

UNION PACIFIC COMPANY OF CANADA LIMITED

SAMPLE & CORE RECORDWELL NAME Union Pan Am Trainor K-70

INTERVAL		DESCRIPTION
FROM	TO	
230 - 730		unconsolidated sand and gravels - lost circulation problems
730 - 1145		shale, siltstone - minor limestone, ironstone
1145 - 1180		sandstone - very fine grained, cherty
1180 - 1290		interbedded sandstone - siltstone, shale
1290 - 1505		shale in part silty, with interbedded limestone 1360 - 1390.
1510 - 5040		AIR DRILLED SAMPLES.
1505 - 2050		shale, with interbedded limestone 1510 - 20, 2020 - 30.
2050 - 2802		limestone - shale sequence, argillaceous limestone at 2050 becoming gradationally more argillaceous with depth - by 2500 shale - noncalcareous.
2802 - 3000		limestone (texture?)
3000 - 3320		shale grey
3320 - 4030		limestone light grey
4030 - 4295		shale grey with minor limestone interbeds
4295 - 4342		limestone light grey
4342 - 6040		shale - grey and grey-green noncalcareous
AT 6040		CONVERTED TO MUD
Depth Correction 6040 to 6036		
6036 - 6120		shale grey brown (bituminous);
6120 - 6220		limestone (Slave Point) light brown traces micro-wiggy intercrystalline porosity - crystalline calcite - no shows above limestone is pulsed, light brown to medium brown with interbedded white, pesty traces calcarenite.

CALGARY, ALBERTA
UNION OIL COMPANY OF CANADA LIMITED

SAMPLE & CORE RECORD

WELL NAME Union Pan Am Trainor K-70

INTERVAL FROM TO	DESCRIPTION
Core 6220 - 6273	cored - limestone light brown pelleted in part algal, very minor amounts oolitic interbeds dark brown dense (algal) birdseyed with calcite - (6222 - 6225 near - vertical bituminous shale lamination) abundant secondary calcite - trace porosity, no show - (traces dead oil)
6273 - 6530	limestone light brown, pelleted, (algal) - trace oolites - minor amounts dark brown, pelleted - (algal) - interbedded limestone, white, pesty - very minor amounts digested calcarenite - porosity very scattered, irregular - no shows - trace calcite crystals -
6530 - 6610	limestone dense pelleted, pesty trace crystalline calcite - trace oolitic limestone - 6600- 6610 trace intercrystalline porosity, 6550 - 60 very minor amount bituminous shale.
6610 - 6935	limestone, very dark grey, very argillaceous, grading to calcareous shale, - in part gray - brown.
6935 - 7115	dolomite mud - gray, argillaceous - 7050-7115 in part anhydritic - 6935 - 7010 traces dolomitized calcarenite - with associated crystalline dolomite - traces micro-vuggy and intercrystalline porosity - dead oil -

UNION OIL COMPANY OF CANADA LIMITED

SAMPLE & CORE RECORD

WELL NAME Union Pan Am Trainor K-70

INTERVAL		DESCRIPTION
FROM	TO	
7115 - 7125		shale, red and green, dolomite mud as above
7125 - 7185		interbedded red and green shale as above, dolomite mud as above, massive anhydrite and sandstone, quartzose, (frosted) very poorly sorted well-rounded to angular, anhydritic cement - in part unconsolidated with associated frosted grit-sized quartz pebbles - no visible porosity no show.
7185 - 7215		dolomite mud
7215 - 7245		anhydrite
7245 - 7255		anhydrite with interbedded red and green shale
7255 - 7325		interbedded red and green shale
7325 - 7345		red shale
7345 - 7370		igneous rock - mainly quartz with accessory mica (quartz diorite)
7370 - 7390		shale? (savings?) - minor amounts quartz diorite as above
		depth measurement taken before logging
		7390 corrected to 7397
		Schlumberger measured 7394

SECTION V - ANALYSIS

(a) Core Analysis - nil

(b) Water Analysis

CBH-2-WA-3535	6125' - 6220'	DST #1
CBH-2-WA-3535	6220' - 6360'	DST #2
CBH-2-WA-3535	6220' - 6300'	DST #3

(c) Gas Analysis

CBH-2-GA-205	6220' - 6360'	DST #2
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(d) Oil Analysis - nil

SUMMARY and CONCLUSIONS

One core 53' in length was taken in the Slave Point Formation. Three drillstem tests were run in the Slave Point, from the top of the formation down to a point below the gas water contact. Two of these yielded relatively small amounts of gas. In addition to this, the Elk Point dolomite was tested, and failed to yield formation fluids. The Slave Point Formation and the Elk Point dolomite are the only interesting zones in this well.

The lithology of the Slave Point Formation as seen in the core indicates a "lagoonal" environment of deposition: quiet water, relatively shallow and reasonably constant as to depth. The bituminous shale partings indicate minor fluctuations in depth of water. The lithology is essentially an Algal limestone, with associated light colored pelleted limestone and minor interbeds of light colored oolitic limestone. "Algal mounding" is shown in a steeply dipping shale lamination which probably was deposited on the flank of a small Algal mound. The sediments do not indicate a "shoal" sedimentary environment

as they do not contain a sufficiently high percentage of bioclastics, nor do they indicate a true "mud flat" type of environment as there are no thick lime mud sections. The total absence of evaporites and the general "freshness" of the sediments make it seem unlikely that the environment is backreef. The pelleted limestones at K-70 are not similar to the pelleted dark brown lime muds of the Slave Point of Central Alberta. The latter are a semi-restricted mud flat sediment, in places evaporitic due to having been deposited in a restricted environment, the restriction in this case having been provided by the Black Reef. The Slave Point limestone at K-70, by comparison with these sediments is a much lighter color and shows no indication of an evaporitic environment of deposition. The environment of deposition can best be described as lagoonal. This lagoonal environment was probably created by a local embayment in the reef front. Such a place could be relatively close to the reef, and yet be starved of reef debris because of being unfavourably situated with respect to the prevailing ocean currents.

The Elk Point dolomite in K-70 is essentially a mud flat type sediment, with a very limited amount of incipient shoaling as shown by interbeds of clastic carbonate. The Elk Point dolomite section encountered is therefore off-shoal or inter-shoal in K-70.

Respectfully submitted,

V. Zay Smith Associates Ltd.

D. P. Stewart

D. P. Stewart
Wellsite Geologist



CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVUE ENGINEERING
EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBH-2 WA-3535

Company Union Oil Company of Canada Limited
Well Name Union Pan Am Trainer M - 70 Sample No. i
Formations N.Y.T 120° 15' - 60° 10' Depth
Location Field Wildcat Province Northwest Territories
Date Sampled F.B. 5/66 Date Analyzed Feb. 21/66 Analyst JK
Sampled From Directly above tool (DST No. 2, Sample No. 3)
Recovery

Consistencies:

1. Total Solids 104,820 mg/liter 2. PH 6.49 3. Sp.Gr. 1.0268 @60°F.
4. Resistivity 0.074 Ohm-meters @ 73 °F 5. HRS Absent

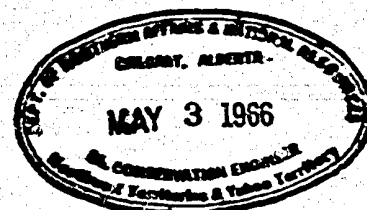
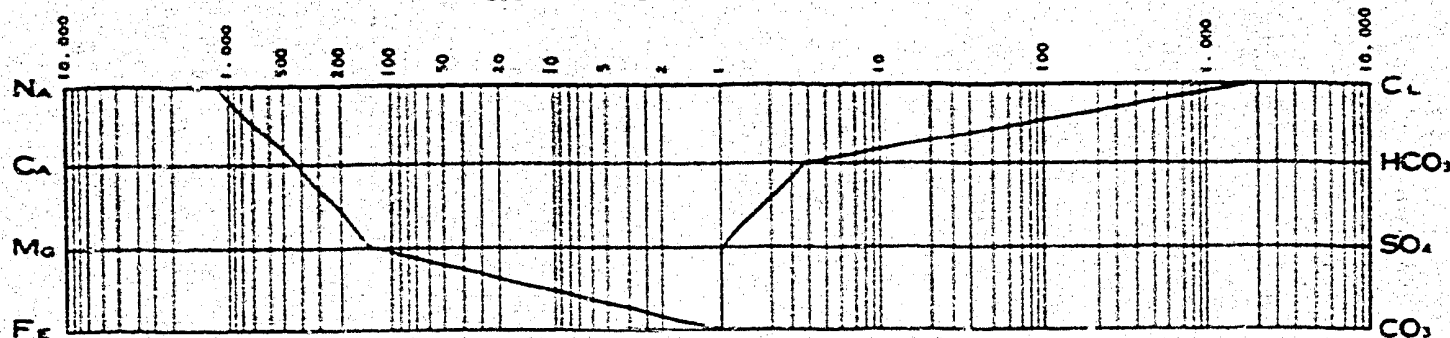
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba	CL	HCO ₃	SO ₄	CO ₃	OH
28,205	8,369	1,609	Present	Absent	60,367	234	16	Absent	Absent

MEQ PER LITER

1326.3	417.6	132.3	-	-	1872.1	3.8	.3	-	-
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LOGARITHMIC PATTERN MEQ PER LITER





CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBH-2 WA-3535

Company Union Oil Company of Canada Limited
Well Name Union. Pan Am Trainor K - 70 Sample No. 2
Formation _____ Depth _____
Location N.W. 1. 120° 15' - 500 ID Field Wildcat Province Northwest Territories
Date Sampled Feb. 15/66 Date Analyzed Feb. 21/66 Analyst JK
Sampled From Top of Water (DST No. 2, Sample No. 2) Elevation _____
Recovery _____

Constituents:

1. Total Solids 98.463 mg/liter 2. PH 6.45 3. Sp.Gr. 1.0610 @60°F.
4. Resistivity 0.085 Ohm-meters @ 73 °F 5. H₂S Absent

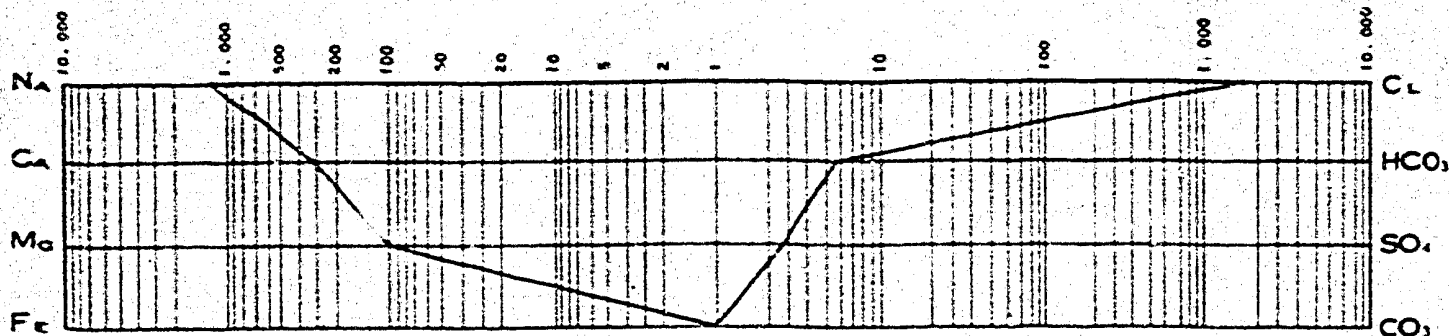
MILLIGRAMS PER LITER

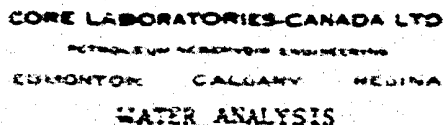
Na & K	Ca	Mg	Fe	Ba		Cl	HCO ₃	SO ₄	CO ₃	OH	
30,068	6,204	1,190	Present	Absent		60,544	341	110	Absent	Absent	

MEQ PER LITER

1307.3	309.6	98.3	-	-		1707.3	5.6	2.3	-	-	
--------	-------	------	---	---	--	--------	-----	-----	---	---	--

LOGARITHMIC PATTERN MEQ PER LITER





FILE CSN-2 4A-3535

Company Union Oil Company of Canada Limited
Well Name Union: Pan Am Trainer K - 70 Sample No. 4
Formation _____ Depth _____
N.W.T. 120° 15' - 60° 10'
Location _____ Field Hilcoz Prov. Northwest Territories
Date Sampled Feb. 6/66 Date Analyzed Feb. 21/66 Analyst JK
Sampled From DST No. 3, Sample No. 1 Elevation _____
Recovery _____

Constraints:

1. Total Solids _____ mg/liter 2. PH _____ 3. Sp. Gr. _____ 60°F.
4. Resistivity 0.671 Ohm-meters @ 75 °F 5. H₂S _____

MILLIGRAMS PER LITER

[illegible]

MEQ PER LITER

[illegible]

LOGARITHMIC PATTERN MCG PER LITER

[illegible]

WATER ANALYSIS



File: CGH-2 WA-3535

Company Union Oil Company of Canada Limited

Unit: Pan Am Trainer K - 70

Sample No. 5

Formation

Dept 34

N.W.T. 120° 15' - 60° 10'

~~SECRET~~

Province Northwest Territories

Date Submitted Feb. 9/66

Date Analyzed Feb. 21/66

Am 1 201 JK

Sampled From Top of Recovery (DST No. 1, Sample No. 1)

Elevation

Recovery

Constituents:

1. Total Solids _____ mg/liter

2. 55

3. Sp. Cr.

6607

4. Resistivity 1.008 Ohm-meters @ 78 °F

S. 11:5

MILLIGRAMS PER LITER

[illegible]

MEQ PER LITER

[illegible]

LOGARITHMIC PATTERN NEG FILE LITER

	Fe	Mg	Ca	Na
CO ₂				
SO ₄				
HCO ₃				
Cl				



CORE LABORATORIES-CANADA LTD.
PETROLEUM TECHNOLOGY ENGINEERING
EDMONTON CALGARY REGINA
WATER ANALYSIS



File CBM-2 WA-3535

Company Union Oil Company of Canada Limited

Well Name Union. Pan Am Trainor K - 70

Sample No. 6

Formation _____

Depth _____

Location N.W.T. 120° 15' - 60° 10'

Field Wildcat

Province Northwest Territories

Date Sampled Feb. 9/66

Date Analyzed Feb. 21/66

Analyst JK

Sampled From Top of Tool (DST No. 1, Sample No. 2)

Elevation _____

Recovery _____

Constituents:

1. Total Solids _____ mg/liter

2. PH _____

3. Sp.Gr. _____

460°F.

4. Resistivity 1,204 Ohm-meters @ 78 °F

5. HzS _____

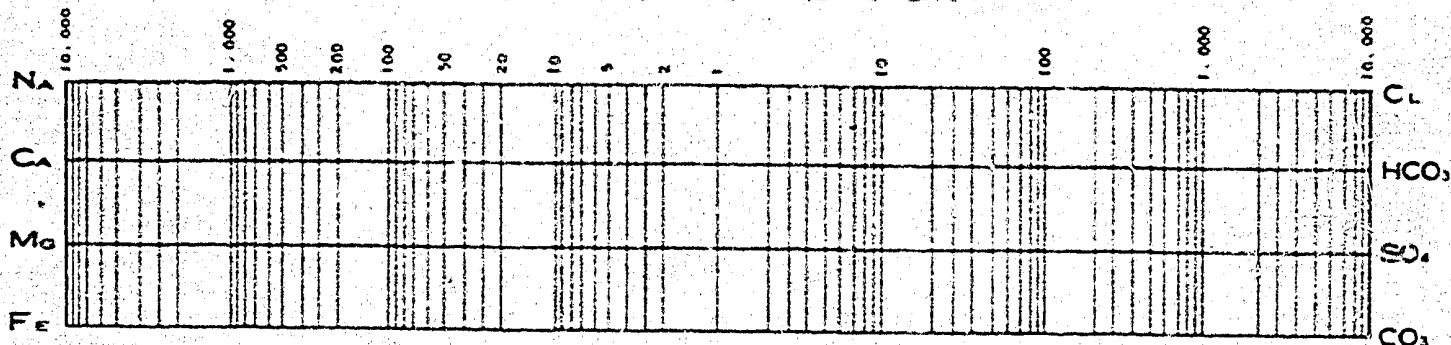
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	BA	CL	HCO ₃	SO ₄	CO ₃	OH

MEQ PER LITER

--	--	--	--	--	--	--	--	--	--

LOGARITHMIC PATTERN MEQ PER LITER



CONE LABORATORIES CANADA LTD.

PERMITS RESEARCH & DEVELOPMENT

CALGARY, ALBERTA

GAS ANALYSIS

Client: Union Oil Company of Canada Limited
Well: Union Van Am Trainer K-70
Field: Wildcat (Trainer Lake) Northwest Territories
Location: Co-ords. 120°27'36.00" WL-60°11'39.00" NL
Page: 1 of 2
File: CV-3-CA-205
Analyst: D.F.
Date: March 7, 1966

SAMPLING CONDITIONS

Location: Slave Point

Sampled from: DST #2

Date Sampled: Feb. 5 66

Depth: 6220' - 6360'

By: D. P. S.

Date Received: Feb. 13 66

Date Analyzed: Feb. 17 66

Pressure: psig Temperature: F. Atmospheric Temp: F.

DST Report: Flowrate: 570' gassy salt water, 270' salt water cut mud, 500 MCF/day.

Method of Analysis:

CHROMATOGRAPH

COMPONENT

MOL %

Pressure in Container: 1002

psig @ 70°F

when received in laboratory

NITROGEN

1.69

CARBON DIOXIDE

5.37

HYDROGEN SULFIDE

-

U.S. GPM at 14.69°

Imp. GPM at 14.65°

METHANE

91.41

and 60°F

and 60°F

ETHANE

1.31

PROPANE

0.13

0.036

0.030

ISOBUTANE

0.04

0.013

0.011

N-BUTANE

0.02

0.006

0.005

ISOPENTANE

Trace

-

-

N-PENTANE

Trace

-

-

HEXANE

Trace

-

-

0.03

0.014

0.012

TOTAL

100.00

0.069

0.058

Actual Pentanes

0.014

0.012

Vapor pressure (Calculated) of actual Pentanes

0.5 Psia @ 100°F

Hydrogen Sulphide Grains per 100 cu. ft.

Gross Heating Value B.T.U. per SCF

955.7
psia & 80°F at 14.69°

952.7
psia & 60°F at 14.65°

Specific Gravity Measured

Calculated

0.622

REMARKS:

The above datum complies with requirements of the Alberta Oil and Gas Conservation Board.

CORE LABORATORIES CANADA LTD.

ANALYTICAL SERVICES DIVISION

ALBERTA

GAS ANALYSIS

Client: Union T. Company of Canada Limited
 Well: Imperial An Am Trainer K-70
 Loc: Wildcat - Trainer Lake Northwest Territories
 Coordinates: 120°27'36.00" W - 60°11'39.00" N
 Date: March 7, 1966

Sample Location: Slave Point
 Sample from: DST #3
 Date Sampled: Feb. 6-66
 Depth: 6220' - 6300'
 B. O. P. S.
 Date Received: Feb. 13-66
 Date Analyzed: Feb. 17-66
 Pressure: 35 psia
 Temp: 70°F

DST Recovery: 4% mud, 362 MCF/day
 Method of Analysis: CHROMATOGRAPH

COMPONENT	MOL %	Pressure in Container	35 psia @ 70°F
HYDROGEN	0.71		
CARBON DIOXIDE	5.39		
	-	US GPM at 14.696	Imp. GPM at 14.65
		and wt. %	and wt. %
ETHANE	92.32		
PROPANE	1.30		
ISOBUTANE	0.12	0.033	0.027
N-BUTANE	0.04	0.013	0.011
ISOPENTANE	0.02	0.006	0.005
N-PENTANE	Trace	-	-
HEXANES	Trace	-	-
	0.10	0.046	0.038
TOTAL	100.00	0.098	0.081
		0.046	0.038
	Actual Pentanes		
	Vapor pressure (Calculated) of actual Pentanes	0.5	psia @ 100°F

Hydrogen Sulphide	Grains per 100 cu. ft.		
Gross Heating Value	B.T.U. per SCF	968.8 psia & 60°F	965.8 psia & 60°F
		at 14.696	at 14.65
Specific Gravity	Measured	Calculated	0.620

REMARKS:

The above datum complies with requirements of the Alberta Oil and Gas Conservation Board.

1975-76

[illegible]



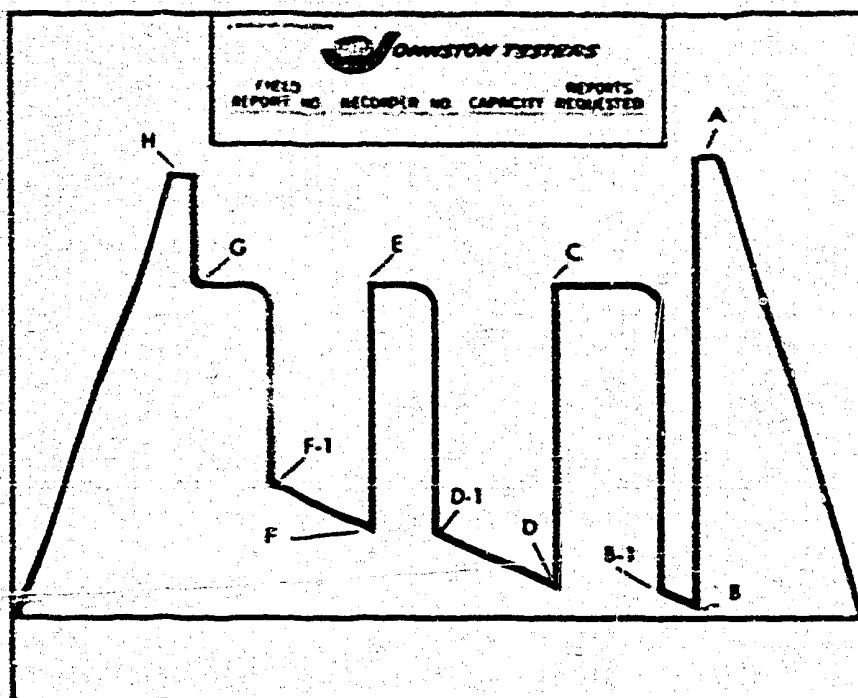
PRESUME DATA

INSTRUMENT NO.		AK1-1936	AK1-2565	FIELD REPORT NO. C 6488	
CAPACITY		7450	4500		
INSTRUMENT LOCATION		6131	6137		
INSTRUMENT ORIENTATION		Outside	Outside		
PRESSURE GRADIENT METER					
WELL TEMP.				TIME DATA	
INITIAL HYDROSTATIC		A 2936#	2939#	TIME GIVEN	TIME COMPUTED
FIRST FLOW		B 59#	59#	MIN.	MIN.
INITIAL SHUT IN		C 1387#	1388#	MIN.	MIN.
SECOND FLOW		D 30#	31#	MIN.	MIN.
D-1		44#	45#		
SECOND SHUT IN		E		MIN.	MIN.
THIRD FLOW		F		MIN.	MIN.
FINAL SHUT IN		G 297#	286#	MIN.	MIN.
FINAL HYDROSTATIC		H 2934#	2953#	CLOCK TRAVEL	IN/MIN

PRESSURE INCREMENTS

[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2, Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

Ticket Number

C 6488

Recorder Number

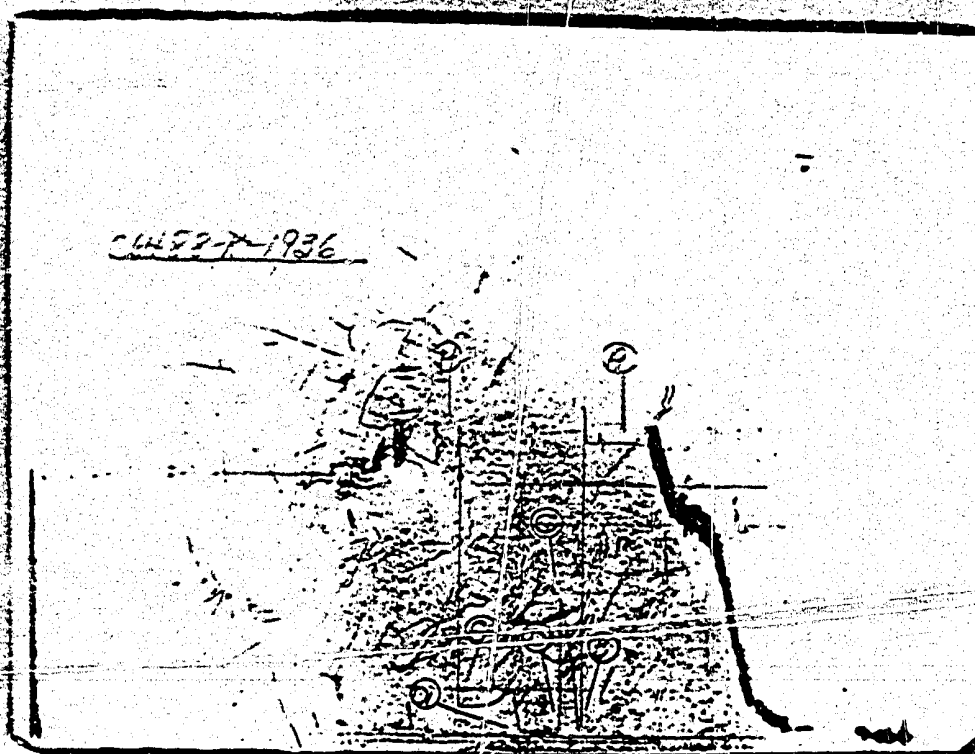
AK1-1936

Capacity

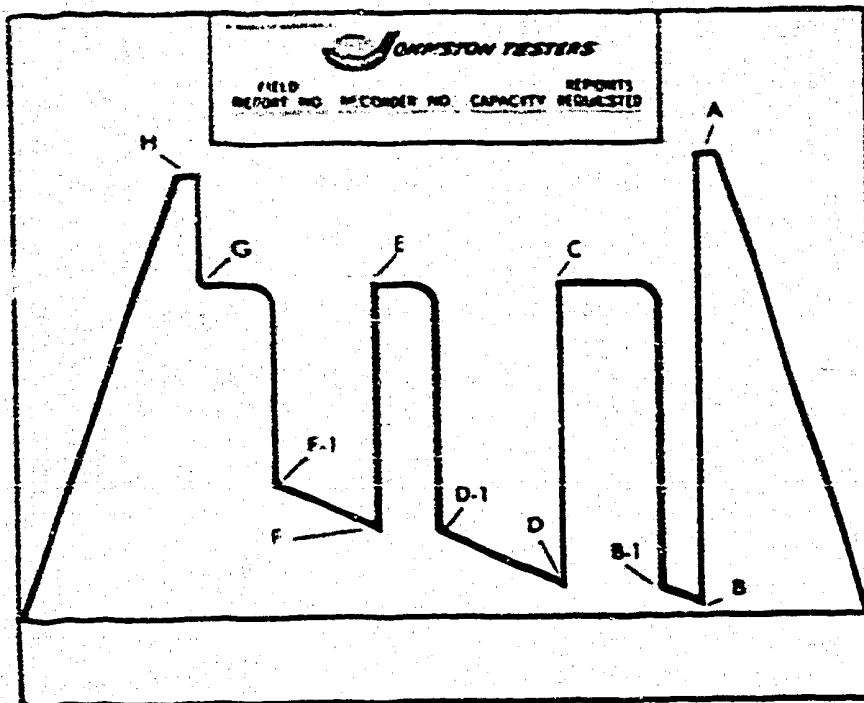
7450

Reports Requested

6



GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2. Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z - Special pressure points such as pumping pressures recorded for formation breakdown.

Ticket Number

Recorder Number

Capacity

Reports Requested

C 2565

AK1-2565

4500

6

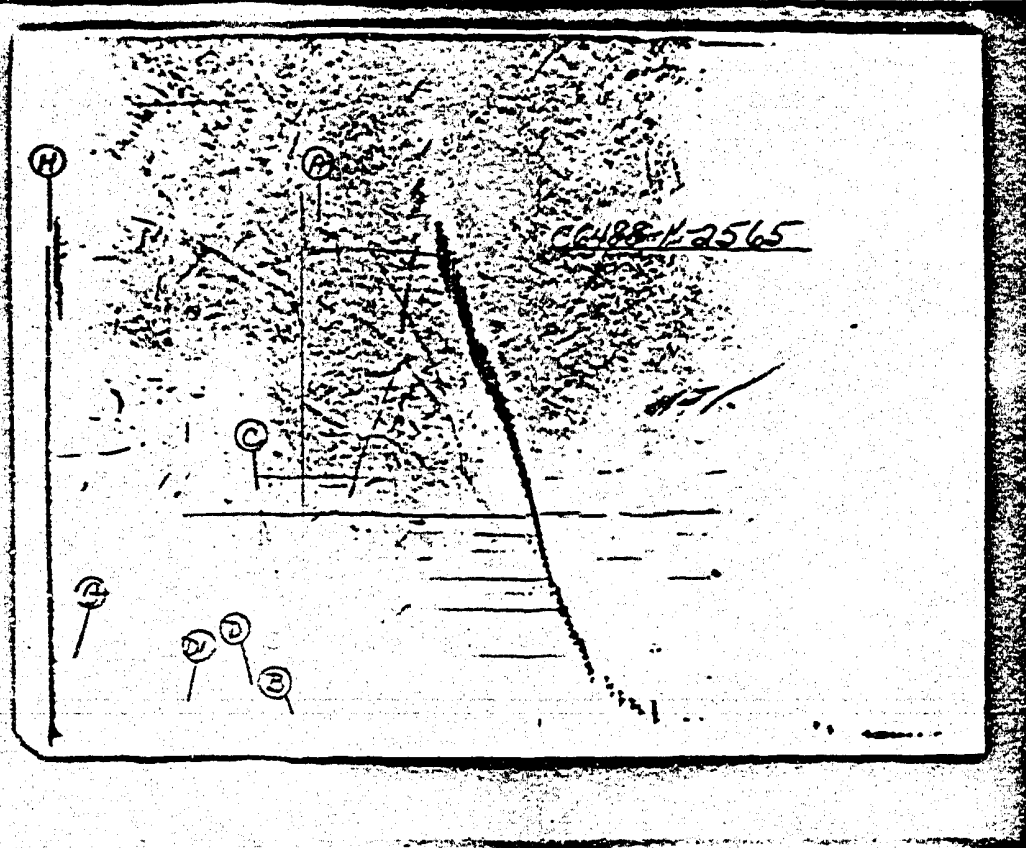


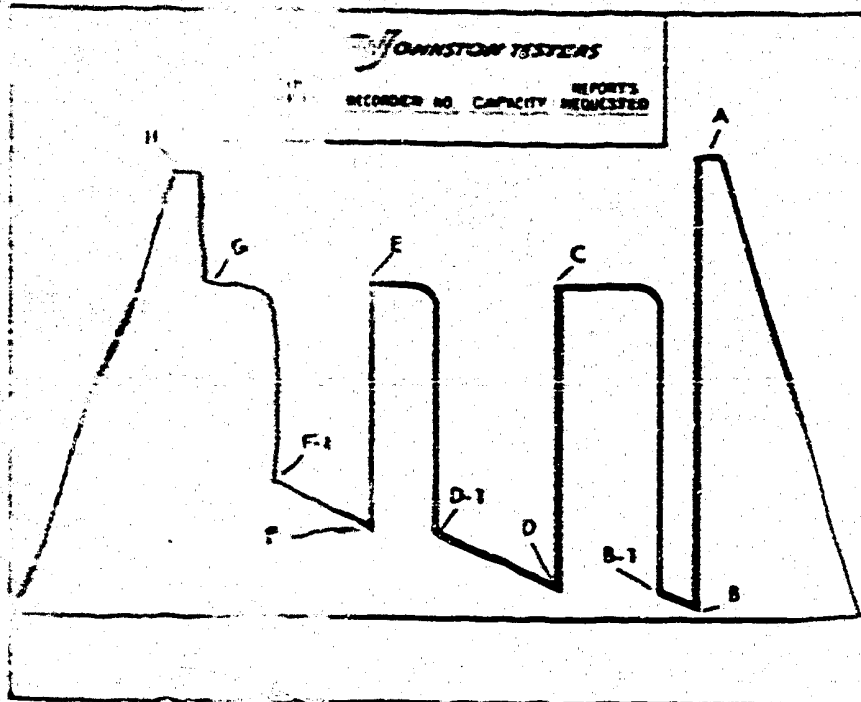
Figure 1

[illegible]

GUIDE

IDENTIFICATION OF DRILL STE

1. PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2, Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z - Special pressure points such as pumping pressures recorded for formation breakdown.

Ticket Number

C 6483

Order Number

AK1-1936

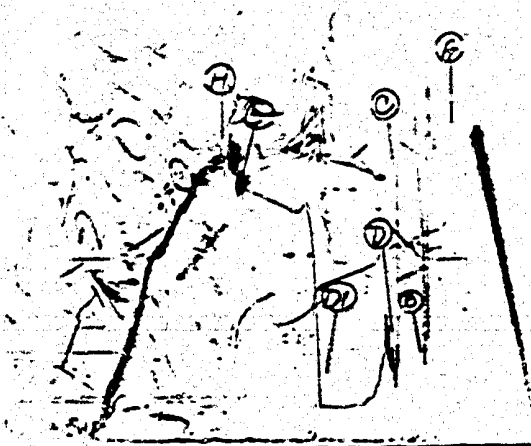
Capacity

7450

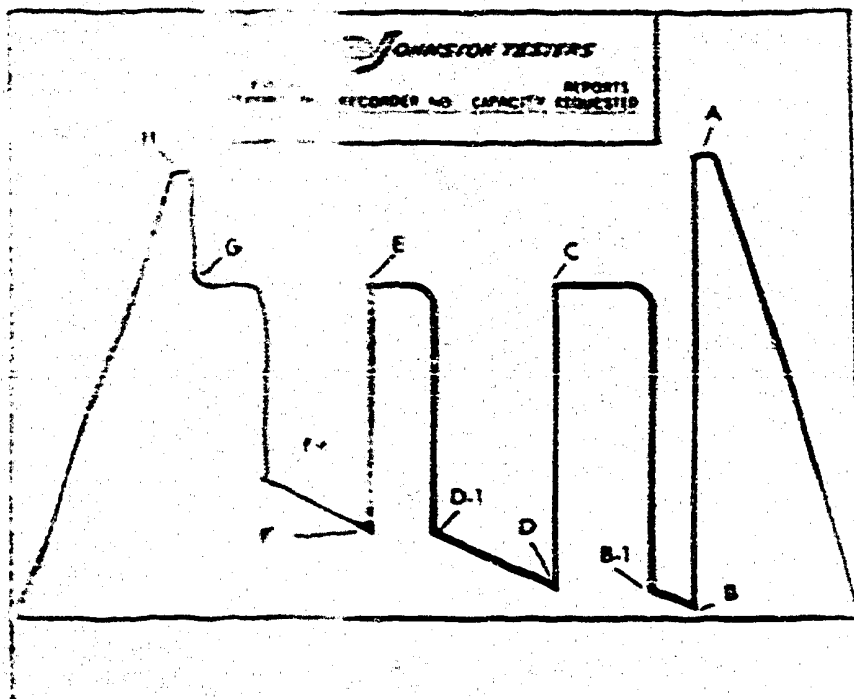
Units Requested

6

1936



GUIDE TO THE CLASSIFICATION OF DRILL STEPS AND PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B-1, Initial Flow Pressures
- C-1, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E-1, E-2, etc. Second Shut-In
- F-1, F-2, Third Flow Pressures
- G-1, Final Shut-In
- H-1, Final Hyd. Pressures
- Z - Special pressure points such as pumping pressures recorded for formation breakdown.

Ticket Number

C 6489

Order Number

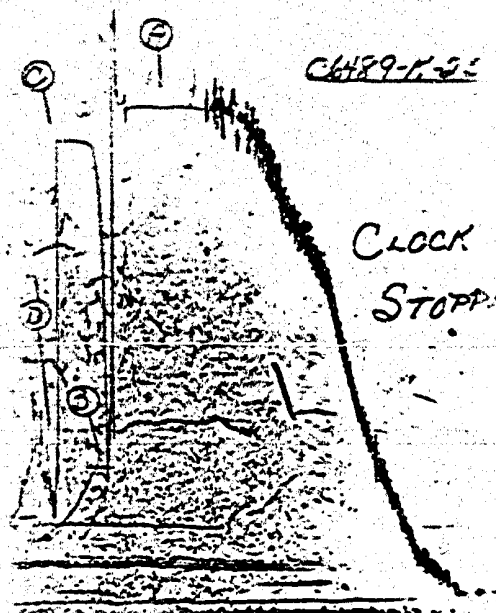
OK1-2565

Capacity

4500

Requested

6



JOHNSTON TEST

TEST DATA

Formation Slave Point
Interval 6220 5300 6360
Type of Test Open Hole Straddle, Bypass
Time Started in Hole 0545 Hrs Tool Oper 0855
First Flow 5
Flow 60
Pulled Loose W 1240
Wt. Set on Packer 50,000 Pulled Loose Wt 50,000

WELL FLOW, GAS TO SURFACE
IN 5 MINUTES.

WELL MEASUREMENTS

2" ID Riser or Est. ()

MANOMETER

inches	M	Cubic Feet Day
.5	362	
.5	362	
.5	362	
.33	295	
.33	295	
.33	295	

FLUID RECOVERY

1 No X

4"

4" DRILLING FLUID.

1.31 Satisfactory

Ticket No. C-6490

Address 709 - 8

Test No. 3

Field TRAINOR

CANADA LIMITED

TRAINOR K-70

120°-27'-36"-W

6220-6300

5 - C

1 - D

2553 K2

1/2"

TOOL SEQUENCE

	Length	Est.
Sub.	.76	5 1/2
Sub.	.83	4 1/2
IN TOOL	6.05	4 1/2
TOOL	7.71	4 1/2
DER	5.55	4 1/2
	4.10	4 1/2
Y JT.	1.77	4 1/2
Sub.	.83	4 1/2
& P.R.	7.20	5 3/4
& P.R.	5.50	5 3/4
	40.30	
	1.20	
	9.00	4 1/2
Sub.	.78	4 1/2
TOOL	5.90	4 1/2
	.53	8"
	57.40	
	.76	6"
& STUD	3.95	5 3/4
INTERVAL	79.62	
	2.80	
& P.R.	7.20	
	.78	6"
	19.00	4 1/2
	28.00	
	.80	6"
	.94	4 1/2
BELOW INTY	59.52	
LENGTH	179.44	

MUD AND HOLE DATA

GEL & CHEM	WL
2/32 Visc.	WL
ARROW DRILLING	
Size 4 1/2 XH	
Size 2 7/8 ID Length	511.68'
Size 8 3/4"	
Size	

Date FEBRUARY 6/64

WIDE S.W., CALGARY, ALBERTA

J.T.L. Test No. 3

Province N.W.T.

(ENCLOSED)

PRESSURE DATA

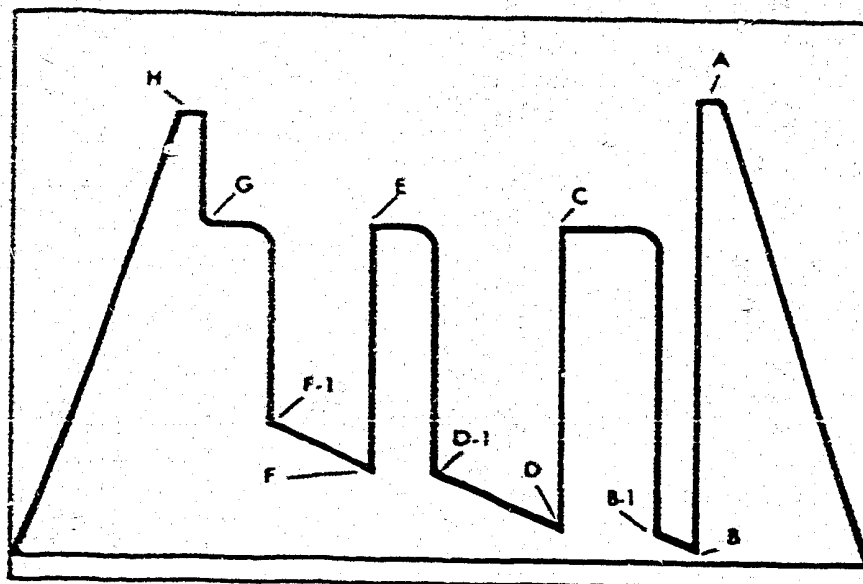
INSTRUMENT NO.				FIELD REPORT NO.	
CAPACITY (GAL)		AK1 2565	AK1 1936	C-6490	
INSTRUMENT DEPTH		4500	7450		
INSTRUMENT OPENING		6194	6232		
PRESSURE GRADIENT (psi/ft)		INSIDE	OUTSIDE		
WELL TEMP. °F					
				TIME DATA	
INITIAL HYDROSTATIC		A	3065#	3077#	
FIRST FLOW		B	292#	673#	
INITIAL SHUT-IN		C	2808#	2810#	
SECOND FLOW		D	207#	492#	
D-1			250#	357#	
SECOND SHUT-IN		E			
THIRD FLOW		F			
FINAL SHUT-IN		G	2779#	2780#	
FINAL HYDROSTATIC		H	2980#	2970#	
				CLOCK TRAVEL	

REMARKS:

PRESSURE INCREMENTS

[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2. Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

 **JOHNSTON TESTERS LTD.**

FIELD
REPORT NO.

C-6490

RECORDED NO.

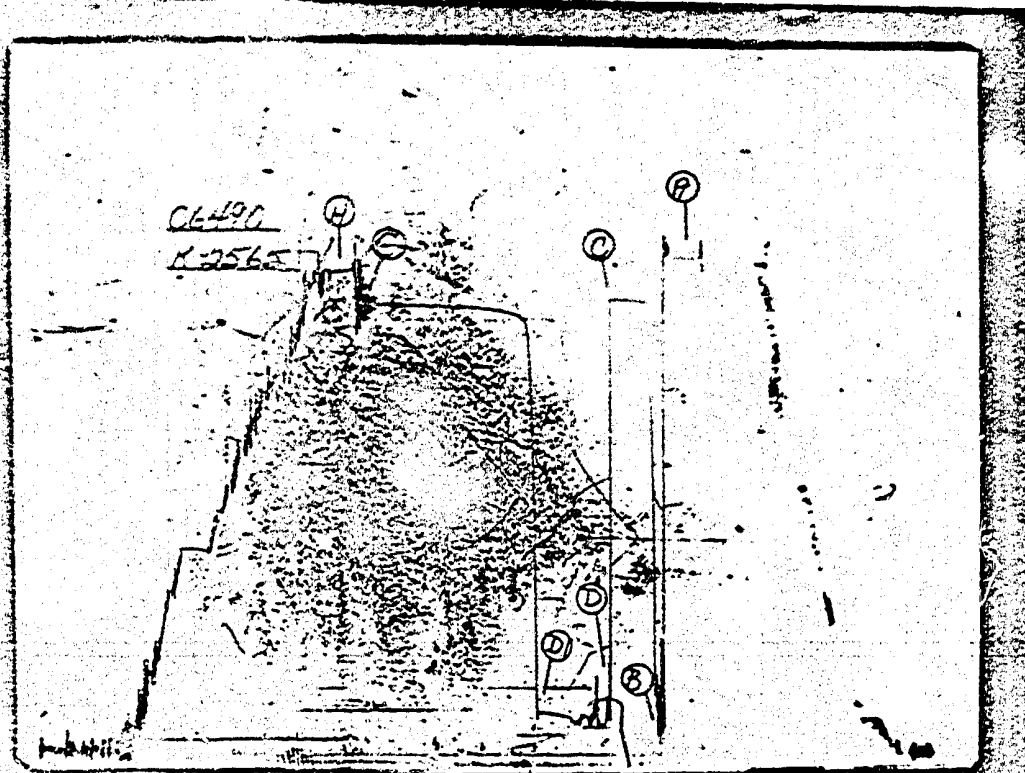
AK1-2565

CAPACITY

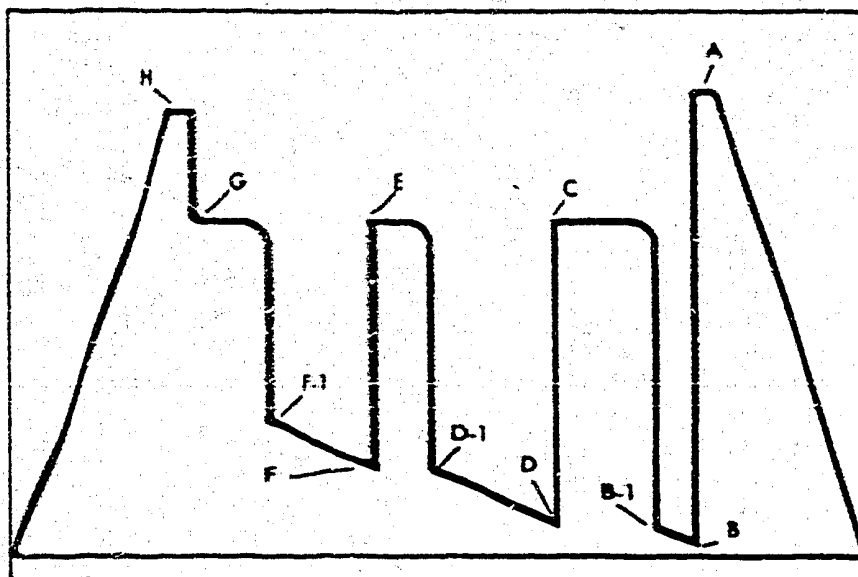
4500

REPORTS
REQUESTED

6



GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2. Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

 JOHNSTON TESTERS LTD.
FIELD
REPORT NO.

C-6490

RECORDER NO.

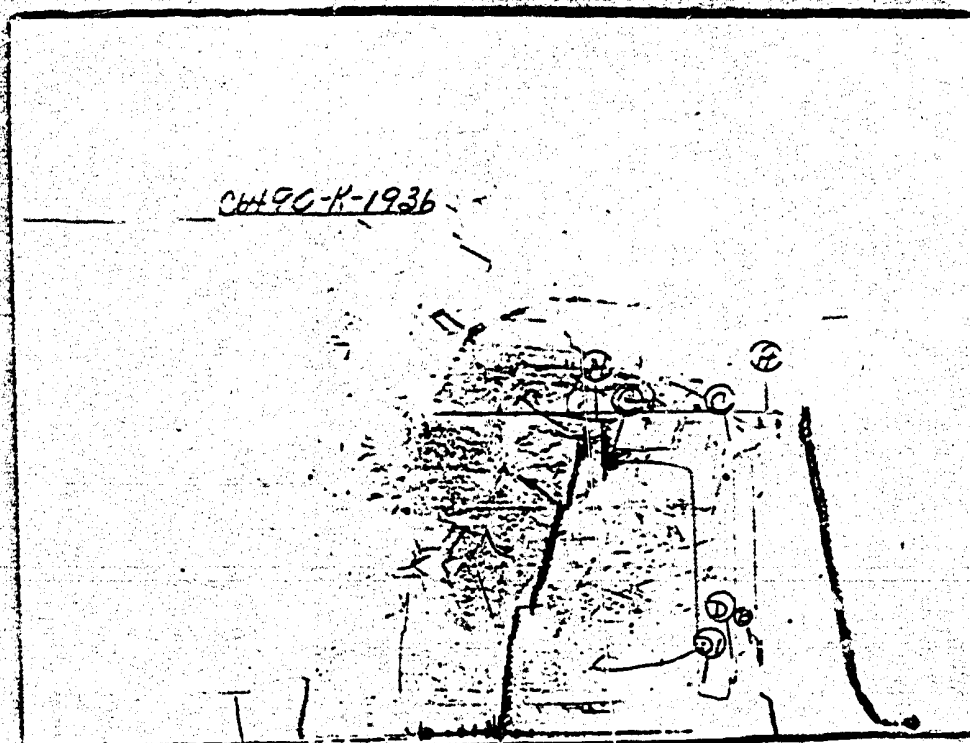
AK1-1936

CAPACITY

7450

REPORTS
REQUESTED

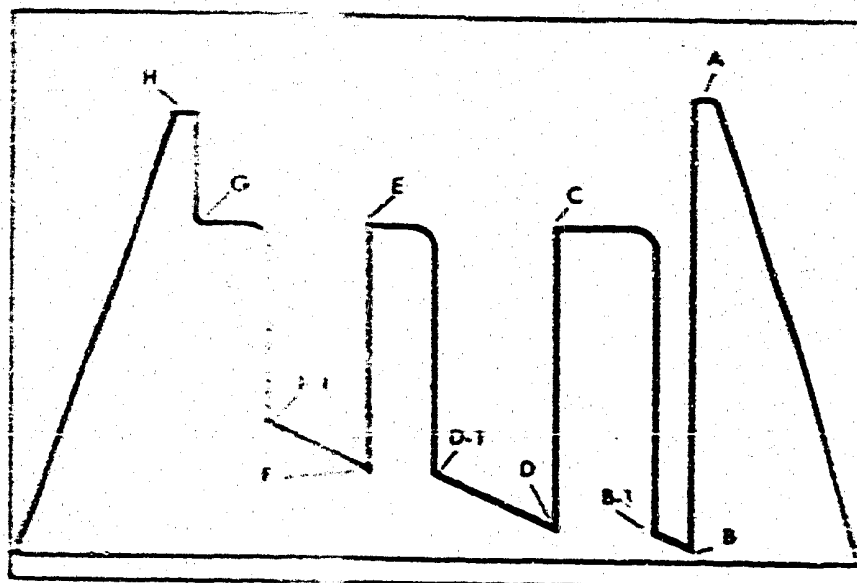
6



44-38861-1000

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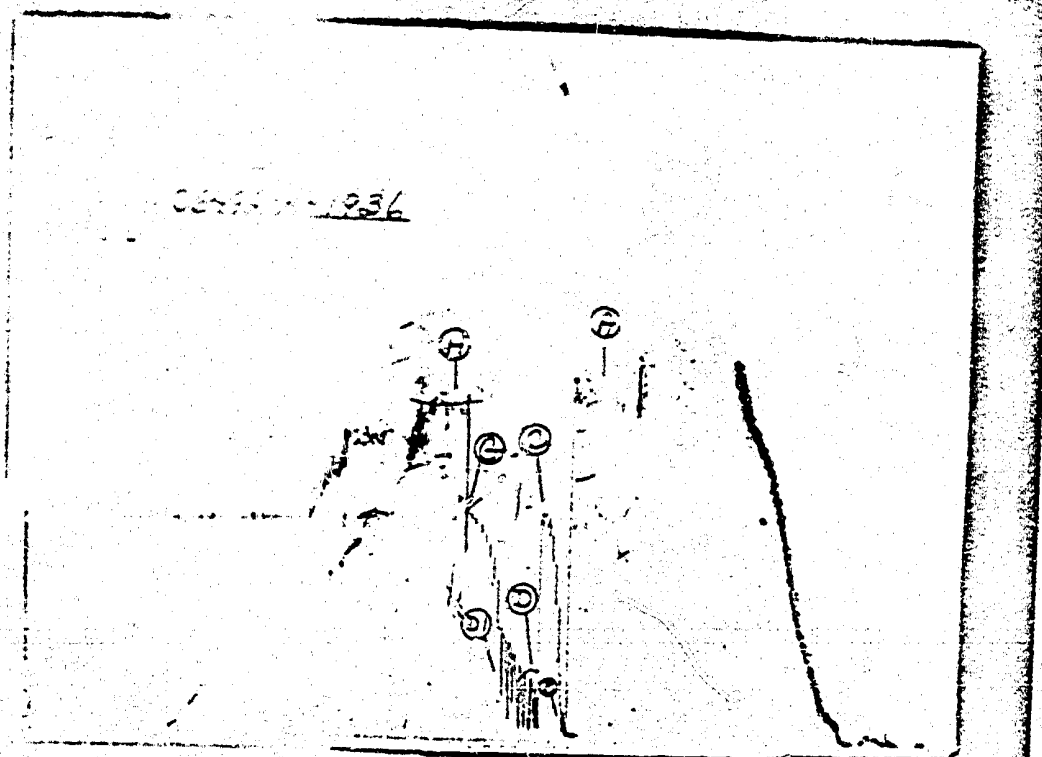
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating either packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2, Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.


WINSTON TESTERS LTD.
**FIELD
REPORT NO.**
C-6492
REPORTER NO.
AKT 1236
CAPACITY
7450
**REPORTS
REQUESTED**
6


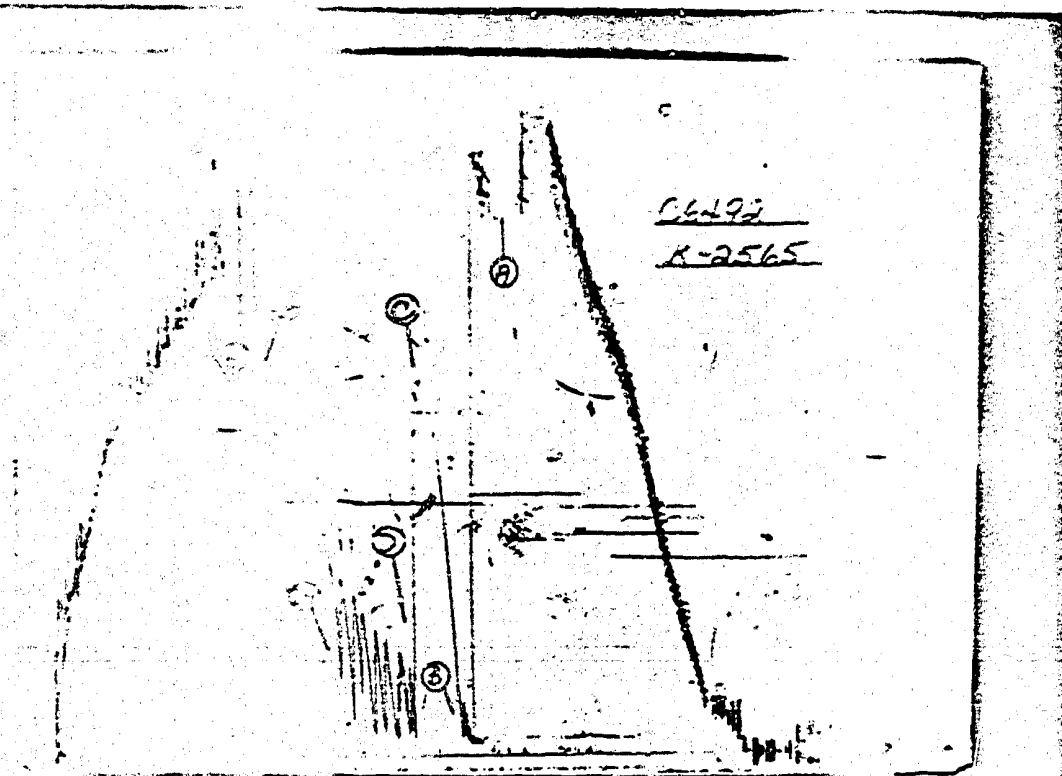
- The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2. Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z - Special pressure points such as pumping pressures recorded for formation breakdown.

STON TESTERS LTD.

REPORT
REGIONS

6



JOB NO. 627

OPERATOR <i>Union Oil Co.</i>		LEASE <i>Unical Pan Am Tractor K-70</i>		WELL NO. <i>WC</i>		FIELD OR DIST. <i>NWT.</i>		COUNTY		STATE			
CONTRACTOR <i>ARROW DRILLING COMPANY, LTD.</i>		RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.	NO.	MANUFACTURER	TYPE	STROKE LENGTH					
					1.								
					2.								
					3.								

MORNING TOUR	NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS							MUD RECORD				
			STANDS DP	FT.	RUN NO.											LINER SIZE	S.P.M.	LINER SIZE	S.P.M.		RIG UP/DOWN	WORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00
			SNGLS. DP	FT.	SIZE																DRILLING - ACTUAL							WEIGHT			
			D.C. ID		MFG.																REAMING							VISC.			
			OD	FT.	TYPE																RUN CSG.							W.L. C.C.			
			RMR BODY OD	FT.	NOZ. NO.																W.O.C.							FLTR. CK.			
			STB BODY OD	FT.	SIZE																TRIP OUT							PH			
			SUBS OD	FT.	SER. NO.																TRIP IN							SD. CONT.			
			BIT OR C.B.	FT.	DEPTH OUT																DEVIATION SURVEY										
				FT.	CUMULATIVE HOURS RUN																CHECK B.O.P.										
		KELLY DOWN	FT.	COND. OF BIT																EQUIP. REPAIR											
		TOTAL	FT.	REAMER CUTTER NO.																LOST CIRC.											
		WT. OF STRING	LBS.	TYPE																FISH											
		FOOTAGE DRILLED																		RIG SERVICE											
		DRILLER																		FOOTAGE HRS.											
																				CIRCULATE											
																				TRIP OUT											
																				TRIPS (DAY-WORK)											
																				(A) DRILL IN											
																				(B) PERFORATING											
																				(C) RUNNING TUBING											
																				(D) SWABBING											
																				(E) TESTING WELL											
																				(F) ACIDIZING											
																				(G) FRACTURING											
																				(H) D.S.T.											
																				(I) COMPLETION											
																				FOOTAGE HRS.											
																				DAYWORK HRS.											

627

STANDARD DAILY DRILLING REPORT FORM

JOB NO. 627

STANDARD DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 52

DATE FEB 21/66

JOB NO. 627

OPERATOR UNION OIL CO	LEASE UNICAL PAN AM TRAINOR	WELL NO. K70	FIELD OR DIST. W.C.	COUNTY	STATE N.W.T
CONTRACTOR ARROW DRILLING COMPANY, LTD.	RIG NO. 7	DRILL PIPE STRING NO. SIZE 1 7/8	TOOL JOINT 6" OD	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH 1. EMSCO DA. 700 16 2. G.D. EXQ 16 3.	CASING & LINER RECORD SIZE WT. & GR. DEPTH SET FROM TO PERFORATIONS FROM TO CEMENT USED OTHER 13 3/8 0 212 200 2 1/2 CA. CL. 4 1/8 0 150 600 2 1/2 CA. CL.
OPERATOR'S REPRESENTATIVE E. Brown		CONTRACTOR'S TOOL PUSHER			

NO.	DRILLING ASSEMBLY	BIT RECORD	HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD					
														W/CN	DAY	EVE	W/O D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00	
MORNING TOUR														RIG DOWN	8	8					WEIGHT			
														DRILLING - ACTUAL							VISC.			
														REAMING							W.L. C.C.			
														RUN CSG.							FLTR. CK.			
														W.O.C.							PH			
														TRIP OUT							SD. CONT.			
														TRIP IN										
														DEVIATION SURVEY										
														CHECK B.O.P.							MUD & CHEMICALS ADDED			
														EQUIP. REPAIR							TYPE	AMT.	TYPE	AMT.
														LOST CIRC.										
														FISH										
														RIG SERVICE										
														FOOTAGE HRS.							TIME	9:00	12:00	3:00
														CIRCULATE							WEIGHT			
														CORE							VISC.			
														LOG							W.L.-C.C.			
														LOG (DAY WORK)							FLTR. CK.			
														(A) DRILL IN							PH			
														(B) PERFORATING							SD. CONT.			
														(C) RUNNING TUBING										
														(D) SWABBING							MUD & CHEMICALS ADDED			
														(E) TESTING WELL							TYPE	AMT.	TYPE	AMT.
														(F) ACIDIZING										
														(G) FRACTURING										
														(H) D.S.T.										
														(I) COMPLETION										
														FOOTAGE HRS.							TIME	5:00	8:00	11:00
														DAYWORK HRS.							WEIGHT			
														TOTALS	8	8					VISC.			
														TOTAL HRS.							W.L.-C.C.			
														NO. LINES							FLTR. CK.			
														SLIPPED @							PH			
														CUT @							SD. CONT.			
														TOTAL TRIPS										
														TRIPS SINCE LAST CUT										
														TON MI. SINCE LAST CUT										
														LINE ON SPOOL										
														TOTAL TON MI.										
														TO BE COMPLETED BY TOOLPUSHER:					MUD & CHEMICALS ADDED					
														NO. OF DAYS FROM SPUD							TYPE	AMT.	TYPE	AMT.
														CUMULATIVE ROTATING HRS										
														DAYWORK HRS. AS TODAY										
														W D P	15	W D P		STANDBY						
														SIGNED: E. Brown										
														TOOLPUSHER										

DRILLER **W. Johnson**

DRILLER **D. Johnson**

DRILLER **D. Johnson**

JOB NO. 627

MORNING TOUR	NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS				MUD RECORD							
			STANDS	DP	FT.	RUN NO.									LINE SIZE	S.P.M.	LINE SIZE	S.P.M.		RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00	
			SNGLS.	DP	FT.	SIZE														DRILLING - ACTUAL							WEIGHT				
			D.C.	ID		MFG.														REAMING							VISC.				
			RMR BODY	OD	FT.	TYPE														RUN CSG.							W.L.C.C.				
			STB BODY	OD	FT.	NOZ.	NO.	DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		W.O.C.							FLTR. CK.				
			SUBS	OD	FT.	SER. NO.														TRIP OUT							PH				
			BIT OR C.B.		FT.	DEPTH OUT														TRIP IN							SD. CONT.				
					FT.	CUMULATIVE HOURS RUN														DEVIATION SURVEY											
			KELLY DOWN		FT.	COND. OF BIT														CHECK B.O.P.											
		TOTAL		FT.	REAMER CUTTER NO.														EQUIP. REPAIR												
		WT. OF STRING		LBS.	TYPE														LOST CIRC.												
		FOOTAGE DRILLED																	FISH												
		DRILLER		Morton Schuller																											

DAY TOUR	NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS				MUD RECORD							
			STANDS	DP	FT.	RUN NO.									LINE SIZE	S.P.M.	LINE SIZE	S.P.M.		RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	9:00	12:00	3:00	
			SNGLS.	DP	FT.	SIZE														DRILLING - ACTUAL							WEIGHT				
			D.C.	ID		MFG.														REAMING							VISC.				
			RMR BODY	OD	FT.	TYPE														RUN CSG.							W.L.C.C.				
			STB BODY	OD	FT.	NOZ.	NO.	DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		W.O.C.							FLTR. CK.				
			SUBS	OD	FT.	SER. NO.														TRIP OUT							PH				
			BIT OR C.B.		FT.	DEPTH OUT														TRIP IN							SD. CONT.				
					FT.	CUMULATIVE HOURS RUN														DEVIATION SURVEY											
			KELLY DOWN		FT.	COND. OF BIT														CHECK B.O.P.											
		TOTAL		FT.	REAMER CUTTER NO.														EQUIP. REPAIR												
		WT. OF STRING		LBS.	TYPE														LOST CIRC.												
		FOOTAGE DRILLED																	FISH												
		DRILLER		Morton Schuller																											

EVENING TOUR	NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS				MUD RECORD							
			STANDS	DP	FT.	RUN NO.									LINE SIZE	S.P.M.	LINE SIZE	S.P.M.		RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	5:00	8:00	11:00	
			SNGLS.	DP	FT.	SIZE														DRILLING - ACTUAL							WEIGHT				
			D.C.	ID		MFG.														REAMING							VISC.				
			RMR BODY	OD	FT.	TYPE														RUN CSG.							W.L.C.C.				
			STB BODY	OD	FT.	NOZ.	NO.	DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		W.O.C.							FLTR. CK.				
			SUBS	OD	FT.	SER. NO.														TRIP OUT							PH				
			BIT OR C.B.		FT.	DEPTH OUT														TRIP IN							SD. CONT.				
					FT.	CUMULATIVE HOURS RUN														DEVIATION SURVEY											
			KELLY DOWN		FT.	COND. OF BIT														CHECK B.O.P.											
		TOTAL		FT.	REAMER CUTTER NO.														EQUIP. REPAIR												
		WT. OF STRING		LBS.	TYPE														LOST CIRC.												
		FOOTAGE DRILLED																	FISH												
		DRILLER		Morton Schuller																											

50

REPORT NO.

DATE _____

Feb. 1976

JOB NO.

627

OPERATOR UNION OIL CO		LEASE UNICAL P&A Am TRAINER		WELL NO. K70		FIELD OR DIST. Wildcat		COUNTY		STATE N.W.T.				
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. 7	DRILL PIPE STRING NO. SIZE 1 1/4"	TOOL JOINT 6" OD	PUMPS			CASING & LINER RECORD	SIZE 1338	WT. & GR.	DEPTH SET FROM TO 0 212	PERFORATIONS FROM TO	CEMENT USED 2000	OTHER 2 1/2 CA. CL
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER C. B. Brown			NO. MANUFACTURER TYPE STROKE LENGTH									
					1. EMSCO DA. 700 16									
					2. G. D. FXR 16									
					3.									

[illegible][illegible]

NO.		DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN
7	STANDS DP	FT.	RUN NO.													
1	SNGLS. DP	7103 4/8"	SIZE													
	ID		MFG.													
9	D.C. 6 1/2 OD	256.39 FT.	TYPE													
	RMR BODY OD	FT.	NO.													
	STB BODY OD	FT.	NO.													
	SUBS OD	FT.	SER. NO.													
	BIT OR C.B.	FT.	DEPTH OUT													
		FT.	CUMULATIVE HOURS RUN													
	KELLY DOWN 31	FT.	COND. OF BIT													
	TOTAL 7392 17'	LBS.	REAMER CUTTER NO.													
	WT. OF STRING	LBS.	TYPE													
		FOOTAGE DRILLED														
DRILLER		J. J. Johnson														

EVENING TOUR

MUD RECORD			
TIME	5:00	8:00	11:00
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK.			
FH			
SD. CONT.			
MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT.

FOOTAGE HRS.	
DAYWORK HRS.	NIGHTWORK HRS.
TOTALS 8.0	
TOTAL HRS.	
NO. LINES	SIZE
SLIPPED @	CUT @
TOTAL TRIPS	TRIPS SINCE LAST CUT
TON MI. SINCE LAST CUT	LINE ON SPOOL
TOTAL TON MI.	
TO BE COMPLETED BY TOOLPUSHER:	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYWORK HRS. TODAY	
W.D.P. 24	O.P. STANDBY
SIGNED: E. Brown	TOOLPUSHER

HOURS		IN SPACE BELOW REPORT ALL ACTIVITIES, ACCIDENTS, DRILLING, TESTING, DEFECTS TO MACHINERY, ETC.	
FROM	TO		
4:00	6:00	CIRCUIT W.D. HMA-BENTON	RAW PLUG #1 7392-7100
6:00	7:00	VALVE GEAR OIL	144 SE. CONCRETE MENT +
7:00	9:30	BIG TO RUN PLUG NO. 1	.03% HRA RETARDER
9:30	11:30	RUN PLUG NO. 1 & NO. 2	DISPLACED w/ 100% B.H. M.
11:30	12:00	HOISTING 10 570	PLUG IN PLACE 9.50 P.M.
		BLOWING LINES.	

JOB NO. 627

JOB NO. 627

MORNING TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS							MUD RECORD				
	STANDS DP	FT.	RUN NO.	17									SIZE	8 3/4	TYPE	H.W.		NOZ.	NO. 3	SIZE	1 1/16	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	RIG UP/DOWN	MORN
	2	SNGLS. DP	6763.19	FT.	SIZE	8 3/4	2	7380	7390		60	50	800	6"	56				DRILLING - ACTUAL	2						WEIGHT	9.7	9.7	9.9
	21	D.C. 6 1/2 OD	59826	FT.	TYPE	H.W.													REAMING						VISC.	71	73	185	
		RMR BODY OD		FT.	NOZ.	NO. 3													RUN CSG.						W.L.C.C.	5.7	5.3	6.1	
		STB BODY OD		FT.	SIZE	1 1/16													W.O.C.						FLTR. CK.	2/32	2/32	2/32	
	1	SUBS OD	290	FT.	SER. NO.	49318													TRIP OUT						PH	9.5	9.5	9.5	
		BIT OR C.B.		FT.	DEPTH OUT	7390													TRIP IN						SD. CONT.				
				FT.	CUMULATIVE HOURS RUN	21													DEVIATION SURVEY										
		KELLY DOWN	26.00	FT.	COND. OF BIT														CHECK B.O.P.							MUD & CHEMICALS ADDED			
	TOTAL	7390.35	FT.	REAMER CUTTER NO.														EQUIP. REPAIR							TYPE	AMT.	TYPE	AMT.	
	WT. OF STRING	160.000	LBS.	TYPE														LOST CIRC.							G-BROWN	1000			
	FOOTAGE DRILLED				124													STUCK IN HOLES	131						CELLEX	150			
	DRILLER				Martin Schuller													RIG SERVICE							DEL	7500			
DAY TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS							MUD RECORD				
	STANDS DP	FT.	RUN NO.	17									SIZE	8 3/4	TYPE	H.W.		NOZ.	NO. 3	SIZE	1 1/16	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	RIG UP/DOWN	MORN
	2	SNGLS. DP	6763.19	FT.	SIZE	8 3/4													CIRCULATE	4 1/4	4 1/4				WEIGHT	9.9	9.9		
	21	D.C. 6 1/2 OD	59826	FT.	TYPE	H.W.													LOG						VISC.	190	180		
		RMR BODY OD		FT.	NOZ.	NO. 3													TRIPS (DAY-WORK)						W.L.C.C.	5.0	5.1		
		STB BODY OD		FT.	SIZE	1 1/16													(A) DRILL IN						FLTR. CK.	2/32	2/32		
	1	SUBS OD	290	FT.	SER. NO.	49318													(B) PERFORATING						PH	10.5	10.5		
		BIT OR C.B.		FT.	DEPTH OUT														(C) RUNNING TUBING						SD. CONT.				
				FT.	CUMULATIVE HOURS RUN														(D) SWABBING										
		KELLY DOWN		FT.	COND. OF BIT														(E) TESTING WELL							MUD & CHEMICALS ADDED			
	TOTAL		FT.	REAMER CUTTER NO.														(F) ACIDIZING							TYPE	AMT.	TYPE	AMT.	
	WT. OF STRING		LBS.																										

JOB NO. 427

[illegible][illegible]

JOB NO. 627

[illegible]

DAILY DRILLING REPORT

REPORT NO. 45 DATE FEB. 14/66

JOB NO. 627

OPERATOR <i>Union Oil Co</i>	LEASE <i>Union Pan Am. Trainor</i>	WELL NO. <i>K70</i>	FIELD OR DIST. <i>W.C.</i>	COUNTY <i>N.W.T.</i>	STATE <i>N.W.T.</i>	
CONTRACTOR <i>ARROW DRILLING COMPANY, LTD.</i>	RIG NO. <i>7</i>	DRILL PIPE STRING NO. SIZE <i>1 1/4"</i>	TOOL JOINT <i>6" OD</i>	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH <i>1. EMSCO DA. 700 16</i> <i>2. G.D. FVQ 16</i> <i>3.</i>	CASING & LINER RECORD SIZE WT. & GR. DEPTH SET FROM TO PERFORATIONS FROM TO CEMENT USED OTHER <i>13 1/2" 12 212</i> <i>12 1505</i> <i>2003 2% CA. CL.</i> <i>6005 2% CA. CL.</i>	
OPERATOR REPRESENTATIVE <i>Tom W. ...</i>	CONTRACTOR'S TOOL PUSHER <i>EB Brown</i>					

NO.	DRILLING ASSEMBLY	BIT RECORD	HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS				MUD RECORD					
														MORN	DAY	EVE	STAND BY	TIME	1:00	3:00	5:00		
1	STANDS DP 6516.34 FT.	RUN NO. 15													RIG UP/DOWN					TIME	1:00	3:00	5:00
	SNGLS. DP	FT. SIZE													WEIGHT	9.4	9.4	9.2					
	ID	MFG.													VISC.	MUD TO THICK							
21	D.C. 6 1/2" OD 598.26 FT.	TYPE W7													W.L.C.C.	6.0	5.8	5.8					
	RMR BODY OD	FT. NOZ. NO. 3													FLTR. CK.	432	432	432					
	STB BODY OD	FT. SIZE 1 1/16													PH	8.5	8.5	8.5					
1	SUBS OD 2.90 FT.	SER. NO. 48996													SD. CONT.								
	BIT OR C.B.	FT. DEPTH OUT																					
		FT. CUMULATIVE HOURS RUN																					
	KELLY DOWN 11.00 FT.	COND. OF BIT																					
	TOTAL 121.50 FT.	REAMER CUTTER NO.																					
	WT. OF STRING 156,000 LBS.	TYPE																					
	FOOTAGE DRILLED 40																						
	DRILLER <i>Maxim Scheller</i>																						
71	STANDS DP 6516.34 FT.	RUN NO. 15																					
	SNGLS. DP	FT. SIZE																					
	ID	MFG.																					
21	D.C. 6 1/2" OD 598.26 FT.	TYPE W7																					
	RMR BODY OD	FT. NOZ. NO. 3																					
	STB BODY OD	FT. SIZE 1 1/16																					
1	SUBS OD 2.90 FT.	SER. NO. 48996																					
	BIT OR C.B.	FT. DEPTH OUT																					
		FT. CUMULATIVE HOURS RUN																					
	KELLY DOWN 39.00 FT.	COND. OF BIT																					
	TOTAL 715.65 FT.	REAMER CUTTER NO.																					
	WT. OF STRING 156,000 LBS.	TYPE																					
	FOOTAGE DRILLED 66																						
	DRILLER <i>Max G. Johnson</i>																						
71	STANDS DP 6547.67 FT.	RUN NO. 15																					
	SNGLS. DP	FT. SIZE																					
	ID	MFG.																					
21	D.C. 6 1/2" OD 598.26 FT.	TYPE W7																					
	RMR BODY OD	FT. NOZ. NO. 3																					
	STB BODY OD	FT. SIZE 1 1/16																					
1	SUBS OD 2.90 FT.	SER. NO. 48996																					
	BIT OR C.B.	FT. DEPTH OUT																					
		FT. CUMULATIVE HOURS RUN																					
	KELLY DOWN 16 FT.	COND. OF BIT																					
	TOTAL 716.49 FT.	REAMER CUTTER NO.																					
	WT. OF STRING 156,000 LBS.	TYPE																					
	FOOTAGE DRILLED 75																						
	DRILLER <i>OC Goehner</i>																						

DAILY DRILLING REPORT

REPORT NO. 44

DATE

FEB 13 1966

JOB NO.

627

OPERATOR <i>Arrow Oil Co</i>	LEASE <i>UNICAL PAN AM. TRAINOR</i>	WELL NO. <i>K70</i>	FIELD OR DIST. <i>W.C.</i>	COUNTY	STATE <i>N.W.T</i>				
CONTRACTOR <i>ARROW DRILLING COMPANY, LTD.</i>	RIG NO. <i>7</i>	DRILL PIPE NO. SIZE <i>1 1/4"</i>	TOOL JOINT <i>6" OD</i>	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH <i>1. FMSCC DA 700 16</i> <i>2. G.D. FxQ 16</i> <i>3.</i>	CASING & LINER RECORD <i>13 1/2"</i> <i>7 1/2"</i>	DEPTH SET FROM TO <i>0 2:2</i> <i>0 1505</i>	PERFORATIONS FROM TO	CEMENT USED <i>200 SA 2 1/2 CA. CL.</i> <i>600 SA 2 1/2 CA. CL.</i>	OTHER
OPERATOR'S REPRESENTATIVE <i>C. M. Walker</i>		CONTRACTOR'S TOOL PUSHER <i>E. B. Brown</i>							

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD							
STANDS	DP	FT.	RUN NO.															MO.	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00		
1	STANDS DP	FT.	RUN NO. 14																										
1	SNGLS. DP	FT.	SIZE 8 1/4																										
21	D.C. ID	FT.	MFG. HW																										
21	6 1/2 OD	FT.	TYPE W7																										
1	RMR BODY OD	FT.	NO. 3																										
1	STB BODY OD	FT.	NO. 11/16																										
1	SUBS OD	FT.	SER. NO. 48111																										
1	BIT OR C.B.	FT.	DEPTH OUT																										
1		FT.	CUMULATIVE HOURS RUN																										
1	KELLY DOWN	FT.	COND. OF BIT																										
1	TOTAL	FT.	REAMER CUTTER NO.																										
1	WT. OF STRING	LBS.	TYPE																										
FOOTAGE DRILLED		4 1/2																											
DRILLER		M. Schuller																											
NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD							
1	STANDS DP	FT.	RUN NO.																										
1	SNGLS. DP	FT.	SIZE 7088																										
1	D.C. ID	FT.	MFG.																										
1	OD	FT.	TYPE																										
1	RMR BODY OD	FT.	NO. 3																										
1	STB BODY OD	FT.	NO. 11/16																										
1	SUBS OD	FT.	SER. NO.																										
1	BIT OR C.B.	FT.	DEPTH OUT																										
1		FT.	CUMULATIVE HOURS RUN																										
1	KELLY DOWN	FT.	COND. OF BIT																										
1	TOTAL	FT.	REAMER CUTTER NO.																										
1	WT. OF STRING	LBS.	TYPE																										
FOOTAGE DRILLED		4 1/2																											
DRILLER		M. Schuller																											
NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD							
1	STANDS DP	FT.	RUN NO.																										
1	SNGLS. DP	FT.	SIZE 7088																										
1	D.C. ID	FT.	MFG.																										
1	OD	FT.	TYPE																										
1	RMR BODY OD	FT.	NO. 3																										
1	STB BODY OD	FT.	NO. 11/16																										
1	SUBS OD	FT.	SER. NO.																										
1	BIT OR C.B.	FT.	DEPTH OUT																										
1		FT.	CUMULATIVE HOURS RUN																										
1	KELLY DOWN	FT.	COND. OF BIT																										
1	TOTAL	FT.	REAMER CUTTER NO.																										
1	WT. OF STRING	LBS.	TYPE																										
FOOTAGE DRILLED		4 1/2																											
DRILLER		M. Schuller																											
NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD							
1	STANDS DP	FT.	RUN NO.																										
1	SNGLS. DP	FT.	SIZE 8 1/4																										
1	D.C. ID	FT.	MFG. HW																										
1	OD	FT.	TYPE W7																										
1	RMR BODY OD	FT.	NO. 3																										
1	STB BODY OD	FT.	NO. 11/16																										
1	SUBS OD	FT.	SER. NO. 48946																										
1	BIT OR C.B.	FT.	DEPTH OUT																										
1		FT.	CUMULATIVE HOURS RUN																										
1	KELLY DOWN	FT.	COND. OF BIT																										
1	TOTAL	FT.	REAMER CUTTER NO.																										
1	WT. OF STRING	LBS.	TYPE																										
FOOTAGE DRILLED		4 1/2																											
DRILLER		M. Schuller																											

627

STANDARD DAILY DRILLING REPORT FORM

JOB NO. 627

NO. DRILLING ASSEMBLY														BIT RECORD				HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT.ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN			
STANDS DP 6392.52 FT. RUN NO. 13														8		1258		7013		65		45		750		6		56													
SNGLS. DP 6392.52 FT. SIZE 8 3/4																																									
D.C. ID 6392.52 MFG. 4 W																																									
OD 548.26 FT. TYPE DUVS																																									
BODY OD 548.26 FT. NO. 3														DEVIATION RECORD:		DEPTH 6637		DEV. 1 1/2																							
SUBS OD 548.26 FT. NO. 3																																									
BIT OR C.B. 2.90 FT. DEPTH OUT																																									
KELLY DOWN 20.00 FT. CUMULATIVE HOURS RUN 8 1/2																																									
TOTAL 7013.68 FT. REAMER CUTTER NO.																																									
WT. OF STRING 156.00 LBS. TYPE																																									
FOOTAGE DRILLED 57																																									
DRILLER Martin Schiller																																									

NO. DRILLING ASSEMBLY														BIT RECORD				HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT.ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN			
STANDS DP 642.46 FT. RUN NO. 13																																									
SNGLS. DP 642.46 FT. SIZE 8 3/4																																									
D.C. ID 642.46 MFG. 4 W																																									
OD 598.26 FT. TYPE DUVS																																									
BODY OD 598.26 FT. NO. 3														DEVIATION RECORD:		DEPTH 7013		DEV. 3 1/4																							
SUBS OD 598.26 FT. NO. 3																																									
BIT OR C.B. 2.90 FT. DEPTH OUT																																									
KELLY DOWN 21.00 FT. CUMULATIVE HOURS RUN 14 1/2																																									
TOTAL 7046.22 FT. REAMER CUTTER NO.																																									
WT. OF STRING 156.00 LBS. TYPE																																									
FOOTAGE DRILLED 40																																									
DRILLER Neil Johnson																																									

NO. DRILLING ASSEMBLY														BIT RECORD				HRS. DRLD.		CORE NO.		FROM		TO		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT.ON BIT 1000#		PUMP PRESS.		PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN			
STANDS DP 647.06 FT. RUN NO. 13																																									
SNGLS. DP 647.06 FT. SIZE 8 3/4																																									
D.C. ID 647.06 MFG. 4 W																																									
OD 598.26 FT. TYPE DUVS																																									
BODY OD 598.26 FT. NO. 3														DEVIATION RECORD:																											

STANDARD DAILY DRILLING REPORT FORM

JOB NO. 627

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE			
Union Oil Co.		Union Oil Co. Trains		K-70		D.C.				N.W.T.			
CONTRACTOR		RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT IN OD	PUMPS	CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER	
ARROW DRILLING COMPANY, LTD.		7	5 1/2"	TYPE THD. 4 H									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH			
				1.		Eaton		90700		11			
				2.		Eaton		90700		11			
				3.									

[illegible]

JOB NO. 422

DAILY DRILLING REPORT				REPORT NO. 40		DATE 11-10-67		JOB NO. 11-10-67		COUNTY		STATE MISS											
OPERATOR HUNTER OIL		LEASE HUNTER OIL R-N AM TRAINER		WELL NO. H-10		FIELD OR DIST. W-10		COUNTY		STATE		OTHER											
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. 7	DRILL PIPE STRING NO. SIZE 1 1/2	TOOL JOINT 11 OD	TYPE THD. KH	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET		PERFORATIONS		CEMENT USED	OTHER						
						NO.	MANUFACTURER	TYPE				STROKE LENGTH	FROM	TO	FROM			TO					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER T. J. HARRIS				1.	EMCO	QA 700	16														
						2.	EMCO	FA 10	16														
						3.																	
										TIME DISTRIBUTION — HOURS				MUD RECORD									

[illegible]

JOB NO. 627

[illegible]

MORNING TOUR	NO. DRILLING ASSEMBLY			BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION—HOURS					MUD RECORD										
	STANDS	DP	FT.	RUN NO.	11									DEPTH	DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00
	SNGLS.	DP	FT.	SIZE	2 3/4									DEVIATION RECORD:											DRILLING — ACTUAL	4 0				WEIGHT				
	D.C.	ID	FT.	MFG.	H.W.																		REAMING					VISC.						
	RMR BODY	OD	FT.	TYPE	ODVU																		RUN CSG.					W.L.C.C.						
	STB BODY	OD	FT.	NOZ.	NO.																		W.O.C.					FLTR. CK.						
	SUBS	OD	FT.	NOZ.	SIZE																		TRIP OUT	3				PH						
	BITS OR C.B.	FT.	DEPTH OUT																				TRIP IN	1 2 1/2				SD. CONT.						
	KELLY DOWN	FT.	CUMULATIVE HOURS RUN																				DEVIATION SURVEY	1 1/4				MUD & CHEMICALS ADDED						
	TOTAL	FT.	COND. OF BIT																				CHECK R.O.P.					TYPE	AMT.	TYPE	AMT.			
WT. OF STRING	LBS.	REAMER CUTTER NO.													EQUIP. REPAIR	3 1/2																		
FOOTAGE DRILLED															LOST CIRC.																			
DRILLER															FISH																			
															RIG SERVICE																			
															FOOTAGE HRS.																			
															CIRCULATE																			
															CORE																			
															LOG																			
															TRIPS (DAY-WORK)																			
															(A) DRILL IN.																			
															(B) PERFORATING																			
															(C) RUNNING TUBING																			
															(D) SWABING																			
															(E) TESTING WELL																			
															(F) ACIDIZING																			
															(G) FRACTURING																			
															(H) D.S.T.																			
															(I) COMPLETION																			
															FOOTAGE HRS.																			
															DAYWORK HRS.																			
															TOTALS	9 8 2																		
															TOTAL HRS.																			
															NO. LINES	8				SIZE	1 1/2													
															SLIPPED @	1034				CUT @	1244													
															TOTAL TRIPS	12				TRIPS SINCE LAST CUT	1 1/2													
															TON MI. SINCE LAST CUT	76				LINE ON SPOOL	3629													
															TOTAL TON MI.	10510																		
															TO BE COMPLETED BY TOOLPUSHER:																			
															NO. OF DAYS FROM SPUD	2																		
															CUMULATIVE ROTATING HRS.	120																		
															DAYWORK HOURS TODAY	1																		
															W.D.P.	1				W/O D.P.														
															SIGNED:																			
															TOOLPUSHER																			

DAY TOUR	NO. DRILLING ASSEMBLY			BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION—HOURS					MUD RECORD										
	STANDS	DP	5054.10 FT.	RUN NO.	11									DEPTH	DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	9:00	12:00	3:00
	SNGLS.	DP	FT.	SIZE	2 3/4									DEVIATION RECORD:											DRILLING — ACTUAL	4 0				WEIGHT	9.2			
	D.C.	ID	FT.	MFG.	H.W.																		REAMING					VISC.	140					
	RMR BODY	OD	598.26 FT.	TYPE	ODVU																		RUN CSG.					W.L.C.C.	6-					
	STB BODY	OD	FT.	NOZ.	NO.																		W.O.C.					FLTR. CK.	7/32					
	SUBS	OD	2.90 FT.	NOZ.	SIZE																		TRIP OUT	3				PH	9.					
	BITS OR C.B.	FT.	DEPTH OUT																				TRIP IN	1 2 1/2				SD. CONT.						
	KELLY DOWN	22.10 FT.	CUMULATIVE HOURS RUN	4																			DEVIATION SURVEY	1 1/4				MUD & CHEMICALS ADDED						
	TOTAL	5182.26 FT.	COND. OF BIT																				CHECK R.O.P.					TYPE	AMT.	TYPE	AMT.			
WT. OF STRING	40.500 LBS.	REAMER CUTTER NO.													EQUIP. REPAIR	3 1/2																		
FOOTAGE DRILLED			46												LOST CIRC.																			
DRILLER			Martin Schuller												FISH																			
															RIG SERVICE																			
															FOOTAGE HRS.																			
															CIRCULATE																			
															CORE																			
															LOG																			
															TRIPS (DAY-WORK)																			
															(A) DRILL IN.																			
															(B) PERFORATING																			
															(C) RUNNING TUBING																			
															(D) SWABING																			
															(E) TESTING WELL																			
															(F) ACIDIZING																			
															(G) FRACTURING																			
															(H) D.S.T.																			
															(I) COMPLETION																			
															FOOTAGE HRS.																			
															DAYWORK HRS.																			
															TOTALS	9 8 2																		
															TOTAL HRS.																			
															NO. LINES	8				SIZE	1 1/2													
															SLIPPED @	1034				CUT @	1244													
															TOTAL TRIPS	12				TRIPS SINCE LAST CUT	1 1/2													
															TON MI. SINCE LAST CUT	76				LINE ON SPOOL	3629													
															TOTAL TON MI.	10510																		
															TO BE COMPLETED BY TOOLPUSHER:																			
															NO. OF DAYS FROM SPUD	2																		
															CUMULATIVE ROTATING HRS.	120																		
															DAYWORK HOURS TODAY	1																		
															W.D.P.	1				W/O D.P.														
															SIGNED:																			
															TOOLPUSHER																			

EVENING TOUR	NO. DRILLING ASSEMBLY			BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION—HOURS					MUD RECORD										
	STANDS	DP	449.74 FT.	RUN NO.	11									DEPTH	DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	5:00	8:00	11:00
	SNGLS.	DP	FT.	SIZE	2 3/4									DEVIATION RECORD:											DRILLING — ACTUAL	4 0				WEIGHT	9.2 9.2 9.2			
	D.C.	ID	FT.	MFG.	H.W.																		REAMING					VISC.	120 42 70					
	RMR BODY	OD	595.16 FT.	TYPE	ODVU																		RUN CSG.					W.L.C.C.	6.0 6.0 6.2					
	STB BODY	OD	FT.	NOZ.	NO.																		W.O.C.					FLTR. CK.	-1/32 -1/32 -1/32					
	SUBS	OD	2.40 FT.	NOZ.	SIZE																		TRIP OUT	3				PH	9.5 9.5 9.5					
	BITS OR C.B.	FT.	DEPTH OUT																				TRIP IN	1 2 1/2				SD. CONT.						
	KELLY DOWN	17.10 FT.	CUMULATIVE HOURS RUN	12																			DEVIATION SURVEY	1 1/4				MUD & CHEMICALS ADDED						
	TOTAL	176.64 FT.	COND. OF BIT																				CHECK R.O.P.					TYPE	AMT.	TYPE	AMT.			
WT. OF STRING	141.00 LBS.	REAMER CUTTER NO.													EQUIP. REPAIR	3 1/2																		
FOOTAGE DRILLED			129												LOST CIRC.																			
DRILLER															FISH																			
															RIG SERVICE																			
															FOOTAGE HRS.																			
															CIRCULATE																			
															CORE																			
															LOG																			
															TRIPS (DAY-WORK)																			
															(A) DRILL IN.																			
															(B) PERFORATING																			
															(C) RUNNING TUBING																			
															(D) SWABING																			
															(E) TESTING WELL																			
															(F) ACIDIZING																			
															(G) FRACTURING																			
															(H) D.S.T.																			
															(I) COMPLETION																			
															FOOTAGE HRS.																			
															DAYWORK HRS.																			
															TOTALS	9 8 2																		
															TOTAL HRS.																			
															NO. LINES	8				SIZE	1 1/2													
															SLIPPED @	1034				CUT @	1244													
															TOTAL TRIPS	12				TRIPS SINCE LAST CUT	1 1/2													
															TON MI. SINCE LAST CUT	76				LINE ON SPOOL	3629													
															TOTAL TON MI.	10510																		
															TO BE COMPLETED BY TOOLPUSHER:																			
															NO. OF DAYS FROM SPUD	2																		
															CUMULATIVE ROTATING HRS.	120																		
															DAYWORK HOURS TODAY	1																		
															W.D.P.	1				W/O D.P.														
															SIGNED:																			
															TOOLPUSHER																			

JOB NO. 627

OPERATOR UNION OIL CO.		LEASE UNION PACIFIC TRAIL		WELL NO. K-70	FIELD OR DIST. W.C.		COUNTY		STATE N.W.T.					
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. 7	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT 6" OD TYPE THD. X H	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
					NO.	MANUFACTURER	TYPE		STROKE LENGTH	13 1/2		D 210		700 lb. 3 1/2 C.C.
					1.	FMSL	PACED		16	9 1/2	1-1/2	D 1505		
					2.	G.D.	F.A.R.		16					
					3.									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												

[illegible][illegible]

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	FOOTAGE HRS.		MUD RECORD			
	STANDS	DP	FT.	RUN NO.									SIZE	MFG.	TYPE	NO.		NOZ.	SIZE	DEPTH	DEV.	DIRECTION	DEPTH
5	STANDS	DP	FT.	RUN NO.	10													DAYWORK HRS.					
2	SNGLS.	DP	FT.	SIZE	8 1/2													TOTALS	8	8	8		
	ID			MFG.	4 1/2													TOTAL HRS.					
1	D.C.	OD	FT.	TYPE	OD 1 1/2													NO. LINES					
	EMR BODY	OD	FT.	NO.	3													SLIPPED @					
	STB BODY	OD	FT.	NOZ.	SIZE	1 1/2												CUT @					
	SUBS	OD	FT.	SER. NO.	5141													TOTAL TRIPS					
	BIT OR C.B.		FT.	DEPTH OUT														TON MI. SINCE LAST CUT					
			FT.	CUMULATIVE HOURS RUN	215													LINE ON SPOOL					
	KELLY DOWN	500	FT.	COND. OF BIT	23 1/2													TOTAL TON MI.					
	TOTAL	65379	FT.	REAMER CUTTER NO.														TO BE COMPLETED BY TOOLPOUSER:					
	WT. OF STRING	70.00	LBS.	TYPE														NO. OF DAYS FROM SPUD	21				
				FOOTAGE DRILLED	977													CUMULATIVE ROTATING HRS					
	DRILLER	M. J. [Signature]																DAYWORK HOURS TODAY					
																		W. O. P.					
																		SIGNED					

DAILY DRILLING REPORT

REPORT NO. 37

DATE

FEB 6, 1966

JOB NO. 127

OPERATOR UNION DRILL		LEASE UNION ARMY TRAILER		WELL NO. H-70		FIELD OR DIST. D.		COUNTY		STATE N.W.T.			
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. 7	DRILL PIPE NO. 7	TOOL JOINT 6"	PUMPS		CASING & LINER RECORD	SIZE 1 1/2"	WT. & GR. 11	DEPTH SET FROM 1 TO 212	PERFORATIONS FROM 1 TO 1505	CEMENT USED 2 1/2	OTHER 1 1/2
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER	TYPE	STROKE LENGTH					
				1.		H. M. CO.	HA 700	11					
				2.									
				3.									

NO.	DRILLING ASSEMBLY	BIT RECORD	HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS				MUD RECORD					
											LINE SIZE	S.P.M.	LINE SIZE	S.P.M.		MORN.	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00
1	STANDS DP	FT. RUN NO.														RIG UP/DOWN					WEIGHT				
2	SNGLS. DP	FT. SIZE														DRILLING - ACTUAL					VISC.				
3	D.C. ID	MFG.														REAMING					W.L.C.C.				
4	OD	FT. TYPE														RUN C.S.					FLTR. CK.				
5	RMR BODY OD	FT. NO. NO.														W.O.C.					PH				
6	STB BODY OD	FT. NO. SIZE														TRIP OUT					SD. CONT.				
7	SUBS OD	FT. SER. NO.														TRIP IN									
8	BIT OR C.B.	FT. DEPTH OUT														DEVIATION SURVEY									
9		FT. CUMULATIVE HOURS RUN														CHECK I.O.P.									
10	KELLY DOWN	FT. COND. OF BIT														EQUIP. REPAIR									
11	TOTAL	FT. REAMER CUTTER NO.														LOSS CIRC. HT									
12	WT. OF STRING	LBS. TYPE														FISH									
FOOTAGE DRILLED																RIG SERVICE				MUD & CHEMICALS ADDED					
DRILLER																FOOTAGE HRS.				TIME 9:00 12:00 3:00					
NO. DRILLING ASSEMBLY BIT RECORD HRS. DRLD. CORE NO. FROM TO FORMATION (SHOW CORE RECOVERY) ROTA- RY R.P.M. WT. ON BIT 1000# PUMP PRESS. PUMP NO. 1 PUMP NO. 2 METHOD PUMPS RUN																CIRCULATE				WEIGHT					
STANDS DP FT. RUN NO.																CORE				VISC.					
SNGLS. DP FT. SIZE																LOG				W.L.C.C.					
D.C. ID MFG.																TRIPS (DAY-WORK)				FLTR. CK.					
OD FT. TYPE																(A) DRILL IN				PH					
RMR BODY OD FT. NO. NO.																(B) PERFORATING				SD. CONT.					
STB BODY OD FT. NO. SIZE																(C) RUNNING TUBING									
SUBS OD FT. SER. NO.																(D) SWABBING									
BIT OR C.B. FT. DEPTH OUT																(E) TESTING WELL									
FT. CUMULATIVE HOURS RUN																(F) ACIDIZING									
KELLY DOWN FT. COND. OF BIT																(G) FRACTURING									
TOTAL FT. REAMER CUTTER NO.																(H) D.S.T.									
WT. OF STRING LBS. TYPE																(I) COMPLETION									
FOOTAGE DRILLED																FOOTAGE HRS.				MUD & CHEMICALS ADDED					
DRILLER																DAYWORK HRS.				TIME 5:00 8:00 11:00					
NO. DRILLING ASSEMBLY BIT RECORD HRS. DRLD. CORE NO. FROM TO FORMATION (SHOW CORE RECOVERY) ROTA- RY R.P.M. WT. ON BIT 1000# PUMP PRESS. PUMP NO. 1 PUMP NO. 2 METHOD PUMPS RUN																TOTALS				WEIGHT					
STANDS DP FT. RUN NO.																TOTAL HRS.				VISC.					
1 SNGLS. DP 5714.91 FT. SIZE 3 1/2																NO. LINES				W.L.C.C.					
D.C. 1 1/2 OD 549.2 FT. TYPE 1 1/2																SLIPPED @				FLTR. CK.					
RMR BODY OD FT. NO. 3																TOTAL TRIPS				PH					
STB BODY OD FT. NO. SIZE 1 1/2																TON MI. SINCE LAST CUT				SD. CONT.					
SUBS OD 29 FT. SER. NO. 51141																TOTAL TON MI.									
BIT OR C.B. FT. DEPTH OUT																TO BE COMPLETED BY TOOLPUSHER:									
FT. CUMULATIVE HOURS RUN																NO. OF DAYS FROM SPUD				MUD & CHEMICALS ADDED					
KELLY DOWN 211.00 FT. COND. OF BIT																CUMULATIVE ROTATING HRS				TYPE AMT. TYPE AMT.					
TOTAL 111.00 FT. REAMER CUTTER NO.																DAYWORK HOURS TODAY									
WT. OF STRING 1356.9 LBS. TYPE																W.D.P. W/O D.P. STANDBY									
FOOTAGE DRILLED																SIGNED: [Signature]									
DRILLER [Signature]																TOOL PUSHER									

JOB NO. 12

DAILY DRILLING REPORT						REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE		
OPERATOR Union Oil Co.						LEASE UNION ARROW DRILLING TRACT		WELL NO. K-10		FIELD OR DIST. W.C.		COUNTY		STATE N.W.T.				
CONTRACTOR ARROW DRILLING COMPANY, LTD.						RIG NO. 7	DRILL PIPE STRING NO. SIZE 4"	TOOL JOINT OD TYPE THD. X H	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
								NO.	MANUFACTURER	TYPE	STROKE LENGTH		1 1/2"		11	212		2005, 2 1/2" C.C.
								1.	FMSCO	BA-240	11		9 1/2"		1500			
								2.	C.O.	FAH	11							
								3.										
OPERATOR'S REPRESENTATIVE						CONTRACTOR'S TOOL PUSHER												

[illegible]

JOB NO.

DAILY DRILLING REPORT							REPORT NO.						DATE								WELL NO.									FIELD OR DIST.										COUNTY										STATE									
OPERATOR ARROW DRILLING CO., INC.							LEASE MICHIGAN A.P.A. FARM TRACTS							WELL NO. K-70																																													
CONTRACTOR ARROW DRILLING COMPANY, LTD.							RIG NO. 7	DRILL PIPE STOPS NO. 2E	TOOL JOINT OD	PUMPS MANUFACTURER TYPE STROKE LENGTH						CASING & LINER RECORD	SIZE WT.&GR.	DEPTH FROM TO	PERFORATIONS FROM TU	CEMENT USED	OTHER																																						
OPERATOR'S REPRESENTATIVE							CONTRACTOR'S TOOL PUSHER							PUMP DATA						Casing & Liner Record	Size	WT.&GR.	Depth From To	Perforations From Tu	Cement Used	Other																																	
														No. Manufacturer Type Stroke Length																																													

[illegible]

JOB NO. 627

10

STANDARD DAILY DRILLING REPORT FORM

JOB NO. 627

DAILY DRILLING REPORT						REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE		
OPERATOR Union Oil						LEASE UNION PANAMA TRAINER		H-70								N.I.D.T.		
CONTRACTOR ARROW DRILLING COMPANY, LTD.						RIG NO. 7	DRILL PIPE STRING NO. SIZE 1 1/2"	TOOL JOINT 6" OD	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE						CONTRACTOR'S TOOL PUSHER			NO.	MANUFACTURER	TYPE	STROKE LENGTH						
									1.	FMSCO	PARTIAL	11						
									2.	S-P	EXD	11						
									3.									

[illegible]

JOB NO. 127

DAILY DRILLING REPORT										REPORT NO.	WELL NO.	FIELD OR DIST.	COUNTY	STATE											
OPERATOR		LEASE		RIG NO.		DRILL PIPE STRING NO. SIZE		TOOL JOINT 1" OD		PUMPS		CASING & LINER RECORD		SIZE		WT. & GR.		DEPTH SET FROM TO		PERFORATIONS FROM TO		CEMENT USED		OTHER	
UNITED OIL CO.		UNICAL PAM No. TRAILOR K-70		4		4 1/2		TYPE THD. X H		NO. MANUFACTURER TYPE STROKE LENGTH		1. EMSCO 2. E.C. 3.													
ARROW DRILLING COMPANY, LTD.				CONTRACTOR'S TOOL PUSHER																					
OPERATOR'S REPRESENTATIVE				CONTRACTOR'S REPRESENTATIVE																					

[illegible]

Number of Days

LSD _____ S. _____ T. _____ R. _____ W. of _____ Lease TRAINER - K70 Field _____ Rig Elevation _____

Depth Start	4710	Depth Finish	6040	Footage Drilled	1320	Average Ft. Per Hour on Bottom	38	TOTALS	1320
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[illegible]

JOB NO. 627

MORNING TOUR

DAY TOUR

10

STANDARD DAILY DRILLING REPORT FORM

DAILY AIR DRILLING REPORT

AIR DRILLING SERVICE (INTER) LTD.

Number of Days

Air Drilling Supervisors—12-8 *J.P. 43 26510* 8-4 *3 files* 4-12

Date Jan 29 66 Operator UNION OIL OF CANADA Hole Size 8 3/4 Surface Casing Size 9 5/8 Ft. 1505 Drilling Supervisor C. Vlatke

Date 5/2/77 Operator W. J. H. H.
Rig Type & No.: FAISCO 500 Contractor APCO # 7 Drill Pipe 4 1/2 FH Drill Collars 13-674 Tool Pusher E. Brown

LSD _____ S. _____ T. _____ R. _____ W. of _____ Lease Tr. No. 1- 1570 Field _____ Rig Elevation _____

[illegible]

Depth Start 3697 Depth Finish 4790 Footage Drilled 1023 Average Ft. Per Hour on Bottom 57 TOTALS 17.35

[illegible]

JOB NO. 127

1102 21110211

STANDARD DAILY DRILLING REPORT FORM

DAILY AIR DRILLING REPORT

AIR DRILLING SERVICE (INTER) LTD.

Number of Days

Air Drilling Supervisors—12-8 J. ROSENBERGER & RIES 4-12

Date JAN 28/66 Operator UNION OIL OF CANADA Hole Size 8 3/4 Surface Casing Size 9 7/8 Ft. 1505 Drilling Supervisor

Rig Type & No.: EMSCO 570 Contractor ARROW # 7 Drill Pipe 4 1/2 FH Drill Collars 18-6 3/4 Tool Pusher E. BROWN

LSD S. T. R. W. of Lease TRAINOR K-20 Field WILDCAT Rig Elevation

MINUTES OFF BOTTOM																TIME BREAK DOWN													
Time 12:00	Depth	Footage Drilled	Wt.	RPM	No. Comp. Used	Cu. Ft. Air Per Minute	Air Pressure	Diff. Pressure	TYPE OF DRILLING				Conn.	Comp. Repairs	Rig Repairs	Survey	Rotating Head	Misc.	Drilling	Tripping	Cleaning or Reaming	Fishing	Logging	Testing	Surveys				
									Air	Mist	Gas	Aerated Fluids																	
1 a.m.	2828	53	20,000	66	4	2400	90		✓				10						50										
2 a.m.	2869	41			✓				✓				10						50										
3 a.m.	2890	21			✓	✓			✓				10			20			30										
4 a.m.	2929	39	✓	✓					✓				10						50										
5 a.m.	2973	44	✓		✓	✓			✓				15						45										
6 a.m.	3022	49		✓	✓				✓				5						55										
7 a.m.	3076	54			✓	✓							15						45										
8 a.m.	3131	55											20						40										
9 a.m.	3174	43		✓	4	2400	95						10			10			30										
10 a.m.	3210	36	✓										5			25			30										
11 a.m.	3291	91	✓						✓				16						50										
12 Noon	3353	62	23,000	✓		✓	✓		✓				15						45										
1 p.m.	3400	47	23,000				✓		✓				10						50										
2 p.m.	3440	40	✓			✓	✓		✓				10						50										
3 p.m.	3475	35	✓		✓		✓		✓				10						50										
4 p.m.	3505	30	✓	✓		✓	✓		✓				5						55										
5 p.m.	3515	10			✓		✓		✓				5			30			25										
6 p.m.	3540	25	✓			✓	✓		✓				10						50										
7 p.m.	3572	32	25000		✓		✓		✓				10						60										
8 p.m.	3592	20	✓	✓		✓	✓		✓				10						50										
9 p.m.	3620	28	✓				✓		✓				10						50										
10 p.m.	3643	23	20,000		✓	✓	✓		✓				10						50										
11 p.m.	3672	29	✓	✓		✓	✓		✓				10						50										
12 p.m.	3697	25	✓		✓	✓	✓		✓				10						50										
TOTALS													355		10	125				18.50									
Depth Start		2773	Depth Finish		3697	Footage Drilled		924	Average Ft. Per Hour on Bottom										57	TOTALS		18.50							

Depth Start 2773 Depth Finish 3697 Footage Drilled 924 Average Ft. Per Hour on Bottom 57 TOTALS 18.50

AIR COMPRESSORS					BITS USED					DEVIATION				CHEMICAL USED		GENERAL REMARKS	
Model	Serial Number	Hours Run	Oil	Fuel	Description of Repairs	No.	Type	Footage	Total Footage	Condition	Depth	Angle	Depth	Angle	Foaming Agent	Dry	Mud Volume Built
						2.	R.6TJS				2869	MISRUN	3500	1'			

JOB NO. 427

STANDARD DAILY DRILLING REPORT FORM

DAILY AIR DRILLING REPORT

AIR DRILLING SERVICE (INTER) LTD.

Number of Days

Air Drilling Supervisors—12-8

S. RIES

8-4

4-12

Date JAN. 27/66

Operator UNION OIL CO. OF CANADA LTD

Hole Size

8 3/4

Surface Casing Size

7 5/8 Ft. 1504

Drilling Supervisor

Rig Type & No.: E500 7

Contractor ARROW DRILLING

Drill Pipe

4 1/2

Drill Collars

19-6 3/4

Tool Pusher

E. BROWN

LSD S. T. R. W. of

Lease TARROR K-30

Field

Rig Elevation

Time 12:00	Depth 1530	Footage Drilled	Wt.	RPM	No. Comp. Used	Cu. Ft. Air Per Minute	Air Pressure	Diff. Pressure	TYPE OF DRILLING				MINUTES OFF BOTTOM						TIME BREAK DOWN						
									Air	Mist	Gas	Aerated Fluids	Conn.	Comp. Repairs	Rig Repairs	Survey	Rotating Head	Misc.	Drilling	Tripping	Cleaning or Reaming	Fishing	Logging	Testing	Surveys
1 a.m.	1545	15	6000	50	✓	2400	90		✓											60					
2 a.m.	1562	17	6000	50	✓				✓				10							50					
3 a.m.	1576	14	"	✓	✓		✓		✓											60					
4 a.m.	1608	32	6000	66	✓	✓	✓		✓				10							50					
5 a.m.	1645	37	✓	✓	✓		✓		✓				10							50					
6 a.m.	1680	35	✓	✓	✓				✓				10							50					
7 a.m.	1714	34	✓	✓	✓	✓			✓				10							50					
8 a.m.	1736	22	✓	✓	✓		✓		✓				10			15				35					
9 a.m.	1766	30	✓	✓	✓				✓											60					
10 a.m.	1820	54	16	✓	✓	✓	✓		✓				20							40					
11 a.m.	1890	70	✓	✓	✓		✓		✓				15							45					
12 Noon	1950	60	✓	✓	✓		✓		✓				20			10				30					
1 p.m.	2015	65	20000	✓		✓	✓		✓				10			10				40					
2 p.m.	2096	81	✓	✓	✓		✓		✓				10							50					
3 p.m.	2175	79	✓	✓	✓				✓				15							45					
4 p.m.	2240	65	✓	✓	✓	✓	✓		✓				15							45					
5 p.m.	2286	46	✓	✓	✓		✓		✓				5			20				25					
6 p.m.	2373	87	✓	✓	✓		✓		✓				10							50					
7 p.m.	2445	72	✓	✓	✓	✓	✓		✓				15							45					
8 p.m.	2515	70	✓	✓	✓	✓	✓		✓				10							50					
9 p.m.	2560	45	✓	✓	✓	✓	✓		✓				10			25				25					
10 p.m.	2623	63	✓	✓	✓	✓	✓		✓				20							40					
11 p.m.	2705	82	✓	✓	✓	✓	✓		✓				15							45					
12 p.m.	2773	68	✓	✓	✓	✓	✓		✓				20							40					

TOTALS

4.30

130

Average Ft. Per Hour on Bottom

67

TOTALS

18.00

Depth Start 1530

Depth Finish 2773

Footage Drilled 1243

AIR COMPRESSORS						BITS USED				DEVIATION				CHEMICAL USED		GENERAL REMARKS	
Model	Serial Number	Hours Run	Oil	Fuel	Description of Repairs	No.	Type	Footage	Total Footage	Condition	Depth	Angle	Depth	Angle	Foaming Agent	Dry	Mud Volume Built
						2.	REGIS				1736	2 3/4					
											1950	20					
											2250	1 3/4					
											2560	1 3/4					

JOB NO. 627

MORNING TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD						
	STANDS	DP	FT.	RUN NO.									SIZE	DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	LINE SIZE	S.P.M.	LINE SIZE	S.P.M.	MORN	DAY	EVE
	1	SNGLS.	DP	1155.54	FT.	SIZE	8 3/4	7 1/4	1525	1735		45	4	90															
		ID			MFG.	H.W.						66	5-6																
	18	D.C.	OD	516.06	FT.	TYPE	RG 7XJ																						
		RMR BODY	OD		FT.	NO.																							
	1	STB BODY	OD	6.54	FT.	NO.																							
		SUBS	OD		FT.	SER. NO.	CS281																						
		BIT OR C.B.		FT.	DEPTH OUT																								
		STAB.		16.69	FT.	CUMULATIVE HOURS RUN	8 1/4																						
	KELLY DOWN		41.00	FT.	COND. OF BIT	RUN																							
	TOTAL		1735.83	FT.	REAMER CUTTER NO.																								
	WT. OF STRING		86,000	LBS.	TYPE																								
	FOOTAGE DRILLED 220																												
	DRILLER Martin Schuller																												

DAY TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD				
	STANDS	DP	FT.	RUN NO.									SIZE	DEV.	DIRECTION	DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	LINE SIZE	S.P.M.	LINE SIZE	S.P.M.	MORN
	17	SNGLS.	DP	1647.03	FT.	SIZE	8 3/4	7 1/4	1735	2226		65	20	90													
		ID			MFG.	H.W.																					
	18	D.C.	OD	516.06	FT.	TYPE	RG 7XJ																				
		RMR BODY	OD		FT.	NO.																					
	1	STB BODY	OD	6.54	FT.	NO.																					
		SUBS	OD		FT.	SER. NO.	CS281																				
		BIT OR C.B.		FT.	DEPTH OUT																						
		DCS.		16.69	FT.	CUMULATIVE HOURS RUN	15 3/4																				
	KELLY DOWN		41.00	FT.	COND. OF BIT	112																					
	TOTAL		2206.57	FT.	REAMER CUTTER NO.																						
	WT. OF STRING		94,000	LBS.	TYPE																						
	FOOTAGE DRILLED 71																										
	DRILLER Neil Johnson																										

EVENING TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD
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Number of Days

Date JAN. 26/1966 Operator UNION OIL CO. Hole Size 8 3/4 Surface Casing Size 9 5/8 Ft. 150.5 Drilling Supervisor _____
 Rig Type & No. 500E MSCD Contractor ARROW DRILLING #7 Drill Pipe 4 1/2 FH Drill Collars 18 - 6 1/2 Tool Pusher E. BROWN
 LSD _____ S. _____ T. _____ R. _____ W. of _____ Lease PAN AM. TRAINOR #2 Field WILDCAT Rig Elevation _____

Depth Start	Depth Finish	Footage Drilled	Average Ft. Per Hour on Bottom	TOTALS	63					
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[illegible]

JOB NO. 627

DAILY DRILLING REPORT						REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE	
OPERATOR UNION OIL COMPANY						LEASE UNION PAM TRAINOR		WELL NO. 470		FIELD OR DIST. W.C.		COUNTY		STATE N.W.T.			
CONTRACTOR ARROW DRILLING COMPANY, LTD.						RIG NO. 7	DRILL PIPE STRING NO. SIZE 1 INCH	TOOL JOINT 6" OD	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE						CONTRACTOR'S TOOL PUSHER											
								NO.	MANUFACTURER	TYPE	STROKE LENGTH						
								1.	EASEO	DA 700	16			D	212		200 Yds 2 1/2 CBL
								2.	G.D	FAG	16			D	1505		600 Yds 2 1/2 CBL
								3.									
TIME DISTRIBUTION HOURS																	

[illegible]

JOB NO. 57

WEAVER TAIL

STANDARD DAILY DRILLING REPORT FORM

JOB NO. 627

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE					
ARROW DRILLING COMPANY, LTD.		UNION PACIFIC		K-10		W.C.				N.W.T.					
CONTRACTOR		RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				NO.	MANUFACTURER		TYPE	STROKE LENGTH					
						1.	FMSCD		DA 700	14					
						2.	C.D.		FAS	11					
						3.									

[illegible]

JOB NO. 637

OPERATOR UNION DRILL CO.		LEASE UNION DRILL CO. TRACT		WELL NO. K-20		FIELD OR DIST. W.C.		COUNTY		STATE N.W.T.							
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. 7	DRILL PIPE STRING NO. SIZE 1 1/2"	TOOL JOINT 1" OD	PUMPS			CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO		PERFO CATIONS FROM TO		CEMENT USED	OTHER	
OPERATOR'S REPRESENTATIVE				CONTRACTOR'S TOOL PUSHER			NO.		MANUFACTURER	TYPE	STROKE LENGTH	13 1/2 HZ HND		212		200 LB.	27.00
							1.		FMSCO	DA 700	11						
							2.		FMSCO	F 100	11						
							3.										

MORNING TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN	TIME DISTRIBUTION — HOURS					MUD RECORD					
	STANDS	DP	FT.	RUN NO.														RIG UP/DOWN	WORK	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00
	SNGLS.	DP	FT.	SIZE														DRILLING — ACTUAL							WEIGHT			
	D.C.	ID		MFG.														REAMING							VISC.			
	15	6 1/2	OD	424.04 FT.	TYPE													RUN CSG.							FLTR. CK.			
	RMR BODY	OD	FT.	NOZ. NO.														W.O.C.							PH			
	STB BODY	OD	FT.	SIZE														TRIP OUT							SD. CONT.			
	SUBS	OD	FT.	SER. NO.														TRIP IN										
	BIT OR C.B.		FT.	DEPTH OUT														DEVIATION SURVEY										
			FT.	CUMULATIVE HOURS RUN														CHECK W.D.P.										
KELLY DOWN		13	FT.	COND. OF BIT													EQUIP. REPAIR											
TOTAL		1565	FT.	REAMER CUTTER NO.													LOST CIRC.											
WT. OF STRING		16000	LBS.	TYPE													FISH											
FOOTAGE DRILLED																	RIG SERVICE											
DRILLER		Jordan Johnson															FOOTAGE HRS.											
DAY TOUR	NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE S.P.M.		PUMP NO. 2 LINER SIZE S.P.M.		METHOD PUMPS RUN	TIME DISTRIBUTION — HOURS					MUD RECORD					
	STANDS	DP	FT.	RUN NO.														CIRCULATE							TIME	9:00	12:00	3:00
	SNGLS.	DP	FT.	SIZE														LOG							WEIGHT			
	D.C.	ID		MFG.														TRIPS (DAY-WORK)							VISC.			
	2MR BODY	OD	FT.	NOZ. NO.														(A) DRILL IN							W.L.C.C.			
	STB BODY	OD	FT.	SIZE														(B) PERFORATING							FLTR. CK.			
	SUBS	OD	FT.	SER. NO.														(C) RUNNING TUBING							PH			
	BIT OR C.B.		FT.	DEPTH OUT														(D) SWABBING							SD. CONT.			
			FT.	CUMULATIVE HOURS RUN														(E) TESTING WELL										
	KELLY DOWN			FT.	COND. OF BIT													(F) ACIDIZING										
TOTAL			FT.	REAMER CUTTER NO.													(G) FRACTURING											
WT. OF STRING			LBS.	TYPE													(H) D.S.T.											
FOOTAGE DRILLED																	(I) COMPLETION											
DRILLER		Neil Johnson															FOOTAGE HRS.											

STANDARD DAILY DRILLING REPORT FORM

637

STANDARD DAILY DRILLING REPORT FORM

JOB NO

EVENING YOUR

STANDARD DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 12

DATE

THU 10 1962

JOB NO.

127

OPERATOR W. H. H. H.		LEASE W. H. H. H.		WELL NO. K-10	FIELD OR DIST. W. H. H.	COUNTY W. H. H.	STATE N. H. H.
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. 7	DRILL PIPE NO. SIZE 1 1/2	TOOL JOINT 1 1/2	OD 1 1/2	PUMPS	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER E. H. H.		Casing & Liner Record		PUMPS	
				1. P. H. H. 10 10		2. P. H. H. 10 10	
				3. P. H. H. 10 10			

NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION — HOURS				MUD RECORD						
STANDS DP	FT.	RUN NO.																MORN	DAY	EVE	W/ D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00
SNGLS. DP	FT.	SIZE																						WEIGHT			
D.C.	OD	FT.	MFG.																					VISC.			
RMR BODY OD	FT.	NOZ.	NO.																					W.L.C.C.			
STB BODY OD	FT.	SIZE																						FLTR. CK.			
SUBS OD	FT.	SER. NO.																						PH			
BIT OR C.B.	FT.	DEPTH OUT																						SD. CONT.			
	FT.	CUMULATIVE HOURS RUN																									
KELLY DOWN	FT.	COND. OF BIT																									
TOTAL	FT.	REAMER CUTTER NO.																									
WT. OF STRING	LBS.	TYPE																									
FOOTAGE DRILLED																											
DRILLER																											
NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION — HOURS				MUD RECORD						
SNGLS. DP	FT.	SIZE																						WEIGHT			
D.C.	OD	FT.	MFG.																					VISC.			
RMR BODY OD	FT.	NOZ.	NO.																					W.L.C.C.			
STB BODY OD	FT.	SIZE																						FLTR. CK.			
SUBS OD	FT.	SER. NO.																						PH			
BIT OR C.B.	FT.	DEPTH OUT																						SD. CONT.			
	FT.	CUMULATIVE HOURS RUN																									
KELLY DOWN	FT.	COND. OF BIT																									
TOTAL	FT.	REAMER CUTTER NO.																									
WT. OF STRING	LBS.	TYPE																									
FOOTAGE DRILLED																											
DRILLER																											
NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION — HOURS				MUD RECORD						
SNGLS. DP	FT.	SIZE																						WEIGHT			
D.C.	OD	FT.	MFG.																					VISC.			
RMR BODY OD	FT.	NOZ.	NO.																					W.L.C.C.			
STB BODY OD	FT.	SIZE																						FLTR. CK.			
SUBS OD	FT.	SER. NO.																						PH			
BIT OR C.B.	FT.	DEPTH OUT																						SD. CONT.			
	FT.	CUMULATIVE HOURS RUN																									
KELLY DOWN	FT.	COND. OF BIT																									
TOTAL	FT.	REAMER CUTTER NO.																									
WT. OF STRING	LBS.	TYPE																									
FOOTAGE DRILLED																											
DRILLER																											
NO. DRILLING ASSEMBLY		BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN	TIME DISTRIBUTION — HOURS				MUD RECORD						
SNGLS. DP	FT.	SIZE																						WEIGHT			
D.C.	OD	FT.	MFG.																					VISC.			
RMR BODY OD	FT.	NOZ.	NO.																					W.L.C.C.			
STB BODY OD	FT.	SIZE																						FLTR. CK.			
SUBS OD	FT.	SER. NO.																						PH			
BIT OR C.B.	FT.	DEPTH OUT																						SD. CONT.			
	FT.	CUMULATIVE HOURS RUN																									
KELLY DOWN	FT.	COND. OF BIT																									
TOTAL	FT.	REAMER CUTTER NO.																									
WT. OF STRING	LBS.	TYPE																									
FOOTAGE DRILLED																											
DRILLER																											

STANDARD DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 17 DATE JAN 17/66

JOB NO. 627

OPERATOR <i>Union Oil</i>	LEASE <i>UNION PUM. Hm. TRAINER K-70 W.P.</i>	WELL NO. <i>W.P.</i>	FIELD OR DIST. <i>W.P.</i>	COUNTY	STATE <i>N.W.T.</i>
CONTRACTOR ARROW DRILLING COMPANY, LTD.	RIG NO. <i>1</i>	DRILL PIPE STRING NO. SIZE <i>2 1/2"</i>	TOOL JOINT <i>1 1/4"</i>	OD <i>1 1/4"</i>	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH 1. <i>EMSCO</i> <i>DE 100</i> <i>12</i> 2. <i>12-12</i> <i>F&W</i> <i>11</i> 3.
OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL 'PUSHER <i>[Signature]</i>	CASING & LINER RECORD SIZE WT. & GP. DEPTH SET FROM TO PERFORATIONS FROM TO CEMENT USED OTHER <i>1 1/2"</i> <i>0</i> <i>230</i> <i>200</i> <i>2 To C.C.</i>			

NO.	DRILLING ASSEMBLY	BIT RECORD	HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION—HOURS					MUD RECORD																						
											LINEAR SIZE	S.P.M.	LINEAR SIZE	S.P.M.		WORN	DAY	EVE	W. D.P.	W/O D.P.	STAND BY	TIME	1:00	3:00	6:00																		
MORNING TOUR																TIME DISTRIBUTION—HOURS								MUD RECORD																			
STANDS DP	FT.	RUN NO.														RIG UP/DOWN						TIME	1:00	3:00	6:00																		
SNGLS. DP	FT.	SIZE														DRILLING—ACTUAL						WEIGHT																					
D.C. ID		MFG.														REAMING						VISC.																					
OD	FT.	TYPE														RUN CSG.						W.L. C.C.																					
RMR BODY OD	FT.	NO. NO.														W.O.C.						FLTR. CK.																					
STB BODY OD	FT.	NOZ. SIZE														TRIP OUT						PH																					
SUBS OD	FT.	SER. NO.														TRIP IN						SD. CONT.																					
BIT OR C.S.	FT.	DEPTH OUT														DEVIATION SURVEY																											
	FT.	CUMULATIVE HOURS RUN														CHECK B.O.P.																											
KELLY DOWN	FT.	COND. OF BIT														EQUIP. REPAIR																											
TOTAL	FT.	REAMER CUTTER NO.														LOST CIRC.																											
WT. OF STRING	LBS.	TYPE														FISH																											
FOOTAGE DRILLED																MUD & CHEMICALS ADDED								MUD RECORD																			
DRILLER <i>[Signature]</i>																TYPE								AMT.				TIME				9:00				12:00				3:00			
DAY TOUR																TIME DISTRIBUTION—HOURS								MUD RECORD																			
STANDS DP	FT.	RUN NO.														FOOTAGE HRS.						TIME	9:00	12:00	3:00																		
SNGLS. DP	FT.	SIZE														CIRCULATE						WEIGHT																					
D.C. ID		MFG.														CORE						VISC.																					
OD	FT.	TYPE														LOG						W.L.-C.C.																					
RMR BODY OD	FT.	NO. NO.														TRIPS (DAY-WORK)						FLTR. CK.																					
STB BODY OD	FT.	NOZ. SIZE														(A) DRILL IN						PH																					
SUBS OD	FT.	SER. NO.														(B) PERFORATING						SD. CONT.																					
BIT OR C.S.	FT.	DEPTH OUT														(C) RUNNING																											
	FT.	CUMULATIVE HOURS RUN														TURING																											
KELLY DOWN	FT.	COND. OF BIT														(D) SWABBING																											
TOTAL	FT.	REAMER CUTTER NO.														(E) TESTING WELL																											
WT. OF STRING	LBS.	TYPE														(F) ACIDIZING																											
FOOTAGE DRILLED																MUD & CHEMICALS ADDED								MUD RECORD																			
DRILLER <i>[Signature]</i>																TYPE								AMT.				TIME				5:00				8:00				11:00			
EVENING TOUR																TIME DISTRIBUTION—HOURS								MUD RECORD																			
STANDS DP	FT.	RUN NO.														FOOTAGE HRS.						TIME	5:00	8:00	11:00																		
SNGLS. DP	FT.	SIZE														DAYWORK HRS.						WEIGHT																					
D.C. ID		MFG.														TOTALS						VISC.																					
OD	FT.	TYPE														TOTAL HRS.						W.L.-C.C.																					
RMR BODY OD	FT.	NO. NO.														NO. LINES						FLTR. CK.																					
STB BODY OD	FT.	NOZ. SIZE														SLIPPED @						PH																					
SUBS OD	FT.	SER. NO.														CUT @						SD. CONT.																					
BIT OR C.S.	FT.	DEPTH OUT														TOTAL TRIPS																											
	FT.	CUMULATIVE HOURS RUN														TRIPS SINCE LAST CUT																											
KELLY DOWN	FT.	COND. OF BIT														TON MI. SINCE LAST CUT																											
TOTAL	FT.	REAMER CUTTER NO.														LINE ON SPOOL																											
WT. OF STRING	LBS.	TYPE														TOTAL TON MI.																											
FOOTAGE DRILLED																TO BE COMPLETED BY TOOLPUSHER:								MUD & CHEMICALS ADDED				MUD RECORD															
DRILLER <i>[Signature]</i>																NO. OF DAYS FROM SPUD								TYPE				AMT.				TIME				1934							
																CUMULATIVE ROTATING HRS								TYPE				AMT.															
																DAYWORK HOURS TODAY								TYPE				AMT.															
																W.D.P.								TYPE				AMT.															
																SIGNED								TYPE				AMT.															

JOB NO.

DATE Jan 16 1916

JOB NO. 105

[illegible][illegible]

JOB NO.

REPORT NO. 15 DATE Jan 15/60

JOB NO. 627

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE	
CONTRACTOR		RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO PERFORATIONS FROM TO CEMENT USED OTHER
ARROW DRILLING COMPANY, LTD.		7	4 1/2"								
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		NO. MANUFACTURER TYPE STROKE LENGTH					
				X.H.		1. EMSCO DQ 700 16"					
						2. G-D FXR 16"					
						3.					

[illegible]

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STANDARD DAILY DRILLING REPORT FORM

JOB NO. 627

[illegible]

MORNING TOUR	NO. DRILLING ASSEMBLY			BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD			
	STANDS DP	FT.	RUN NO.	2A	SIZE									17 1/2	129	150	190		10	200	7 1/2	58	RIG UP/DOWN	MORN	DAY	EVE	W/ D.P.
	SNGLS. DP	FT.	SIZE	17 1/2	MFG.	17 1/2													DRILLING - ACTUAL					WEIGHT			
	ID	FT.	TYPE	2A													REAMING					VISC.					
	RMR BODY OD	FT.	NOZ. NO.														RUN CSS.					W.L.C.C.					
	STB BODY OD	FT.	SIZE														W.O.C.					FLTR. CK.					
	SUBS OD	460	FT.	SER. NO.	H-3A													TRIP OUT					PH				
	BIT OR C.B.	FT.	DEPTH OUT														TRIP IN					SD. CONT.					
		FT.	CUMULATIVE HOURS RUN	3													DEVIATION SURVEY										
	KELLY DOWN	24.00	FT.	COND. OF BIT	IN													CHECK B.O.P.									
TOTAL	150.00	FT.	REAMER CUTTER NO.														EQUIP. REPAIR					GEL 25					
WT. OF STRING	LBS.	TYPE														LOST CIRC.					LINE 50 LBS						
FOOTAGE DRILLED 21																			RIG SERVICE					LEAK 100 LBS			
DRILLER Neil Johnson																											
DAY TOUR	NO. DRILLING ASSEMBLY			BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD			
	STANDS DP	FT.	RUN NO.	2A	SIZE									17 1/2	150	213	80		130	15	200	7 1/2	58	FOOTAGE HRS	CIRCULATE	21 1/2	TIME
	SNGLS. DP	FT.	SIZE	17 1/2	MFG.	H-1													SCORE					WEIGHT			
	ID	FT.	TYPE	H-1													LOG					VISC.					
	RMR BODY OD	FT.	NOZ. NO.														TRIPS (DAY-WORK)					W.L.C.C.					
	STB BODY OD	FT.	SIZE														(A) DRILL IN					FLTR. CK.					
	SUBS OD	460	FT.	SER. NO.	H-3A													(B) PERFORATING					PH				
	BIT OR C.S.	FT.	DEPTH OUT														(C) RUNNING TURING					SD. CONT.					
		FT.	CUMULATIVE HOURS RUN	7													(D) SWABBING										
	KELLY DOWN	7.13.22	FT.	COND. OF BIT														(E) TESTING WELL									
TOTAL	23.00	FT.	REAMER CUTTER NO.														(F) ACIDIZING					MUD & CHEMICALS ADDED					
WT. OF STRING	LBS.	TYPE														(G) FRACTURING					TYPE AMT. TYPE AMT.						
FOOTAGE DRILLED 213																			(H) DST.					GEL 20 SY			
DRILLER Gordon Johnson																			(I) COMPLETION								
EVENING TOUR	NO. DRILLING ASSEMBLY			BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD			
	STANDS DP	FT.	RUN NO.	2A	SIZE									17 1/2	213	230	80		120	15	200	7 1/2	58	FOOTAGE HRS	DAYWORK HRS	TOTALS	9
	SNGLS. DP	FT.	SIZE	17 1/2	MFG.	H-4													TOTAL HRS.					WEIGHT			
	ID	FT.	TYPE	H-4													NO. LINES					VISC.					
	RMR BODY OD	FT.	NOZ. NO.														SLIPPED @					W.L.C.C.					
	STB BODY OD	FT.	SIZE														TOTAL TRIPS					FLTR. CK.					
	SUBS OD	460	FT.	SER. NO.	R-16													TON M. SINCE LAST CUT					PH				
	BIT OR C.B.	FT.	DEPTH OUT														TOTAL TON MI.					SD. CONT.					
		FT.	CUMULATIVE HOURS RUN	2													TO BE COMPLETED BY TOOLPUSHER:										
	KELLY DOWN	20	FT.	COND. OF BIT	IN													NO. OF DAYS FROM STD					MUD & CHEMICALS ADDED				
TOTAL	20	FT.	REAMER CUTTER NO.														CUMULATIVE ROTATING HRS					TYPE AMT. TYPE AMT.					
WT. OF STRING	LBS.	TYPE														DAYWORK HOURS TODAY					GEL 25						
FOOTAGE DRILLED 2																			W.D.P.								
DRILLER																			SIGNED								

JOB NO. 417

STANDARD DAILY DRILLING REPORT FORM

JOB NO.

DATE 6-21-44

JOB NO. 157

OPERATOR <i>W. H. - W.</i>		LEASE <i>Wagon Pass Gr. Twp. & K-7</i>		WELL NO. <i>100 NO. 10</i>		FIELD OR DIST. <i>W. H.</i>		COUNTY		STATE <i>N.W.T.</i>					
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. <i>7</i>	DRILL PIPE STRING NO. SIZE <i>2 1/2</i>	TOOL JOINT <i>7 1/2</i>	OD <i>7 1/2</i>	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH 1. <i>100</i> <i>100</i> <i>100</i> <i>100</i> 2. <i>100</i> <i>100</i> <i>100</i> <i>100</i> 3. <i>100</i> <i>100</i> <i>100</i> <i>100</i>		CASING & LINER RECORD		SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>W. H. - W.</i>		CONTRACTOR'S TOOL PUSHER <i>W. H. - W.</i>													

[illegible]

JOB NO. 627

EVENING TOUR

STANDARD DAILY DRILLING REPORT FORM

JOB NO.

OPERATOR UNION Oil Co.		LEASE Trainer Trainer		REPORT NO. 9		DATE JAN 9		JOB NO. 117					
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	STATE N.W.T.
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.	NO.	MANUFACTURER	TYPE	STROKE LENGTH					OTHER
					1.								
					2.								
					3.								

[illegible]

JOB NO. 627

[illegible][illegible]

[illegible]

JOB NO. 677

OPERATOR <i>PURE WIL</i>		LEASE <i>PURE WIL</i>		WELL NO. <i>K-70</i>		FIELD OR DIST. <i>W.C.</i>		COUNTY		STATE <i>N.W.T.</i>					
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. <i>7</i>	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	PUMPS		CASING & LINER RECORD	SIZE	WT. & GR.	DEPTH SET FROM TO	PERFORATIONS FROM TO	CEMENT USED	OTHER	
			NO. SIZE	TYPE THD.		NO.	MANUFACTURER		TYPE	STROKE LENGTH					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1.									
						2.									
						3.									

[illegible]

JOB NO.

DATE Jan 3/16

JOB NO. 1

[illegible]

MORNING TOUR	NO. DRILLING ASSEMBLY			BIT RECORD			HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN
	STANDS DP	FT.	RUN NO.												LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
	SNGLS. DP	FT.	SIZE																
	D.C. ID		MFG.																
	OD	FT.	TYPE																
	RMR BODY OD	FT.	NOZ. NO.				DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
DAY TOUR	NO. DRILLING ASSEMBLY			BIT RECORD			HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN
	STANDS DP	FT.	RUN NO.												LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
	SNGLS. DP	FT.	SIZE																
	D.C. ID		MFG.																
	OD	FT.	TYPE																
	RMR BODY OD	FT.	NOZ. NO.				DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
EVENING TOUR	NO. DRILLING ASSEMBLY			BIT RECORD			HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT.ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN
	STANDS DP	FT.	RUN NO.												LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
	SNGLS. DP	FT.	SIZE																
	D.C. ID		MFG.																
	OD	FT.	TYPE																
	RMR BODY OD	FT.	NOZ. NO.				DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			

DAILY DRILLING REPORT

REPORT NO. 2

DATE Jan 2 - 65

JOB NO. 627

OPERATOR <i>Arrow Drilling Co</i>		LEASE <i>Union Pacific</i>		WELL NO. <i>K-70</i>	FIELD OR DIST. <i>N.W.T.</i>	COUNTY	STATE
CONTRACTOR ARROW DRILLING COMPANY, LTD.		RIG NO. <i>7</i>	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	PUMPS	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER <i>E. J. Brown</i>		CASING & LINER RECORD		OTHER	
NO.		MANUFACTURER		TYPE		STROKE LENGTH	
1.							
2.							
3.							

MORNING TOUR

DAY TOUR

EVENING TOUR

NO.	DRILLING ASSEMBLY	BIT RECORD		HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1		PUMP NO. 2		METHOD PUMPS RUN	TIME DISTRIBUTION - HOURS					MUD RECORD			
		LINEAR SIZE	S.P.M.									LINEAR SIZE	S.P.M.	W/O D.P.	W/O D.P.		STAND BY	TIME	1:00	3:00	6:00				
STANDS	DP	FT.	RUN NO.														RIG UP/DOWN					WEIGHT			
SNGLS.	DP	FT.	SIZE														DRILLING - ACTUAL					VISC.			
D.C.	ID		MFG.														REAMING					W.L.C.C.			
	OD	FT.	TYPE														RUN CSG.					FLTR. CK.			
RMR BODY	OD	FT.	NOZ. NO.														W.O.C.					PH			
STB BODY	OD	FT.	SIZE														TRIP OUT					SD. CONT.			
SUBS	OD	FT.	SER. NO.														TRIP IN								
BIT OR C.B.		FT.	DEPTH OUT														DEVIATION SURVEY								
		FT.	CUMULATIVE HOURS RUN														CHECK B.O.P.								
KELLY DOWN		FT.	COND. OF BIT														EQUIP. REPAIR								
TOTAL		FT.	REAMER CUTTER NO.														LOST CIRC.								
WT. OF STRING		LBS.	TYPE														FISH								
FOOTAGE DRILLED																									
DRILLER <i>John Johnson</i>																		47° E. 30 MPH wind							
STANDS	DP	FT.	RUN NO.														FOOTAGE HRS.					TIME	9:00	12:00	3:00
SNGLS.	DP	FT.	SIZE														CIRCULATE					WEIGHT			
D.C.	ID		MFG.														CORE					VISC.			
	OD	FT.	TYPE														LOG					W.L.C.C.			
RMR BODY	OD	FT.	NOZ. NO.														TRIPS (DAY-WORK)					FLTR. CK.			
STB BODY	OD	FT.	SIZE														(A) DRILL IN					PH			
SUBS	OD	FT.	SER. NO.														(B) PERFORATING					SD. CONT.			
BIT OR C.B.		FT.	DEPTH OUT														(C) RUNNING TUBING								
		FT.	CUMULATIVE HOURS RUN														(D) SWABBING								
KELLY DOWN		FT.	COND. OF BIT														(E) TESTING WELL								
TOTAL		FT.	REAMER CUTTER NO.														(F) ACIDIZING								
WT. OF STRING		LBS.	TYPE														(G) FRACTURING								
FOOTAGE DRILLED																									
DRILLER																									
STANDS	DP	FT.	RUN NO.														FOOTAGE HRS.					TIME	5:00	8:00	11:00
SNGLS.	DP	FT.	SIZE														DAYWORK HRS.					WEIGHT			
D.C.	ID		MFG.														TOTALS					VISC.			
	OD	FT.	TYPE														TOTAL HRS.					W.L.C.C.			
RMR BODY	OD	FT.	NOZ. NO.														NO LINES					FLTR. CK.			
STB BODY	OD	FT.	SIZE														SLIPPED @					PH			
SUBS	OD	FT.	SER. NO.														TOTAL TRIPS					SD. CONT.			
BIT OR C.B.		FT.	DEPTH OUT														TON MI. SINCE LAST CUT								
		FT.	CUMULATIVE HOURS RUN														TON MI. SINCE LAST CUT								
KELLY DOWN		FT.	COND. OF BIT														TOTAL TON MI.								
TOTAL		FT.	REAMER CUTTER NO.														TO BE COMPLETED BY TOOLPUSHER:					MUD & CHEMICALS ADDED			
WT. OF STRING		LBS.	TYPE														NO. OF DAYS FROM SPUD					TYPE	AMT.	TYPE	AMT.
FOOTAGE DRILLED																									
DRILLER <i>John Johnson</i>																									

JOB NO.

STANDARD DAILY DRILLING REPORT FORM