

PACIFIC
WESTCOAST
JUDILE
0-17

WELL NAME: Pacific Northwest Jutile 0-17
FIELD: New Field Wildcat Area:
LOCATION: Unit 0 Section 17 Grid 05-30; 127-30
Latitude 65-26-53 Longitude 127-32-35
From Established Reference Marker 2 1/5 mi N Imp. Kooniar Ridge No. 2
U.W.I.R. Lat. 65.44805° N., Long. 127.54305° W. Rig Release Date: Sept 11, 1967
U.W.I. No. 3000176530127300 Status: O + a
Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
Aug 23 1967	Application for a Drilling Authority. Well Completion Data. Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
SEP 27 1967	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
Aug 7/67	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.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale Small, scale

Orig & 1 - Dept Northern Development
/c.c. - A. B. Rogan
- File



Drilling Authority No. 274
Date issued August 23, 1967

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

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

Well name and number Pacific Westcoast Judilo G-17
Permit No. 4486 Lease No. -
Pacific Petroleum Ltd. Exploratory Licence No. 1081
(Permitter, Licensee, Lessee)
Pacific Petroleum Ltd. Exploratory Licence No. 1081
(Operator)
Location: Unit 0 Section 17 Grid 65° 30' 127° 30'
Latitude 65° 28' 53" N Longitude 127° 32' 35" W
From Established Reference Marker 2 1/4 mi N. Hwy. Bonnier Ridge No. 2
Universal Well Location Reference Lat. 65.48058; Long. 127.54305 W

	DATE	DEPTH	Pool(s)
Spudded	8-24-63		Interval(s) open to production
Suspended			
Resumed Operations			
Finished Drilling	9-8-67	1890	
Deepened			Elevation: Gr. 183' Datum K.B.
Complete (gas/oil)			Rig No. 5
Abandoned	9-10-67	1890	Drilling Contractor Tri City Drilling Co.
Rig released	9-10-67	1890	Contractor's Business Licence No. 18253

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at -	Bags of Cement and Additives
1. 5 1/2	J-55	144	155	155	66 cement plus ZrCaCl ₂
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depth	Sub-Sea	From	To	Rec.	From	To	Rec.
Imperial	285	-102	1322'	1342'	19.6'			
Canol	1264	-1081	1342'	1362'	20.4'			
Kee Scarp	1318	-1135	1362'	1382'	20'			
Nare Indian	1744	-1561						

LOG RECORD

Run No.	Type of Log	From	To
1	Electric Log	1890'	155'
1	Gamma Ray Log	1890'	155'

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
9-9-67	1890'	1700'	19 sox + 1 inch Cbl +								
9-9-67	1365'	1200'	Felt at 1190' 16 sox + 1 inch Cbl								
9-10-67	200'	0'	35 sox + 1 inch Cbl								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	L.S.L. Mins.	F.S.L. Mins.	L.S.L.B.H.P.	F.S.L.B.H.P.	L.F.B.H.P.	F.F.B.H.P.	L.H.P.	F.H.P.	REMARKS
1	9-2-67	Kee Scarp	1320'	1382'	60	30	60	630	635	52	105	945	871	Recovered 10' drilling mud
2	9-8-67	Kee Scarp	1382'	1890'	60	30	60	625	559	599	609	740	682	Recovered 500' drilling mud
3	9-9-67	Glare Indian	1330'	1890'										Misses
4	9-9-67	Kee Scarp	1350'	1890'	60	30	60	551	446	446	387	662	630	Recovered 900' drilling mud
NOTE: Pressures given are field pressures. See charts for offbe-corrected pressures.														

ANALYSIS					PRESENT STATUS OF WELL				
Lab. No.	Sample	From	To	Source	Oil	Gas	Dry	Susp.	Remarks
E67-2907X-1A	Water	1350	1890	DST #4					
E67-2907X-2A	Water	1350	1890	DST #4					
E67-2907X-3A	Drilg Mud	1350	1890	DST #4					
					Abandoned				

Company **Pacific Petroleum Ltd.**

Signed **A.D. HOGAN** ORIGINAL SIGNED BY

Manager of Production

Date **November 7th, 1967**

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



File No. _____
Drilling Authority No. 274

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
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 Pacific Westcoast Judite 0-17
Location: Unit 0 Section 17 Grid 127° 30' 65" 30'
Latitude 65° 26' 53" N Longitude 127° 22' 35" W
From Established Reference Marker 2 1/2 m N. Imp. Hoonier Ridge No. 2
Universal Well Location Reference Lat. 65.44805 N., Long. 127.54305 W
Permit No. 4486 Lease No. _____

Pacific Petroleum Ltd.
(Permitter, Lessee, Lessor)

Date of commencement of proposed program Sept. 9, 1967

OIL, GAS, AND WATER ENCOUNTERED (Depths)

Oil at nil
Gas at nil
Water at nil
Total Depth 1890 Date of last operations Sept. 8, 1967 Drill Stem Testing
Present condition of well Waiting on abandonment

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. <u>5 1/2</u>	<u>140</u>	<u>155</u>	<u>155</u>	<u>66 sacks plus 22CaCl₂</u>	<u>Nil</u>
2. _____	_____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____	_____

PROPOSED ABANDONMENT PROGRAM

No.	Flag Position	Geological Formation	Number of Sacks of Cement	Remarks
1	<u>1890-1700</u>	<u>Bare Indian</u>	<u>19 sacks</u>	
2	<u>1365-1200</u>	<u>Kee Scarp and Canal</u>	<u>16sack+22CaCl₂</u>	<u>Felt at 1190'</u>
3	<u>208-0</u>	<u>Cretaceous</u>	<u>35sack+22CaCl₂</u>	
Verbal approval was obtained from Mr. Thoms of the Department of Indian Affairs and Northern Development to Abandon well.				

The following logs have been run electric log from 1890-155, gamma ray log 1890-155
Other operations proposed _____

Operations to be carried out by Tri City Drilling Co Contractor Licence No. 18253
Address 14305-120 Avenue, Edmonton Address Edmonton, Alberta
Responsible Agent in field W. W. McLaughlin
Dated at Calgary, Alberta this 14 Day of September 19 67
Signed by [Signature] Company Pacific Petroleum Ltd.
Title Manager of Production Operator's Exploratory Licence No. 1081

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 the
8th of September 1967

Dated 27th September 19 67

[Signature]
Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

Drilling Authority No. 274

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
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 **Pacific Westcoast Juddie 0-17**
 Location: Unit **0** Section **17** Grid **127° 30' 65° 30'**
 Latitude **63° 26' 53" N** Longitude **127° 32' 35" W**
 From Established Reference Marker **2 1/5 mi N Imp. Hobbler Ridge No. 2**
 Universal Well Location Reference **Lat. 65.44805° N., Long. 127.54305° W.**
 Elevation: Ground **292 (EST)** K.B. **300** feet above sea-level.
 Well is expected to produce from **Kee Scarp Reef** formation at a depth
 of about **1400** feet. Expected total final depth **1925**
 Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. **4486** Lease No. **26,660**
 Permittee, licensee, or lessee **Pacific Petroleum Ltd.**
 Exploratory Licence No. **1081**
 Surface owned by Crown or **Crown**

(If different, give 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 O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Ends of Cement
1. 5 1/2"	14	J-55	New	150	To Surface
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment.

Potential Oil & Gas Horizons - **Kee Scarp & Hume Reefs**

Control will be with water gas and hydril double gate shaffer

Well will be drilled with Rotary Rig No. **5** by **Tri - City Drilling Co.**
 (Drilling Contractor or company)

Responsible agent of applicant: **W. W. McLaughlin** Contractor's business Licence No. **18253**
 At well **Financial Building Edmonton** At registered office **A. M. McIntosh**

Address **Calgary, Alberta** Address **Pacific Building Calgary, Alberta**

It is understood that if changes become necessary, notice of the change of plan will be submitted.
 Dated at **Calgary, Alberta** this **22** day of **August** 19 **67**

Signed by **ORIGINAL SIGNED BY** Company **Pacific Petroleum Ltd.**
 Title **Manager of Production** Operator's Licence No. **1081**

(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 **23rd August,** 19 **67** Oil Conservation Engineer **B. H. Shum**

Forms to be submitted to Oil Conservation Engineer,
 Department of Indian Affairs and Northern Development, Calgary, Alberta.

LAND 52-90-1 (3-67)

Unique well Identifier No. **3000176530127300**

667-a-5-4.

Pacific Westcoast Judile 0-17

65° 26' 53" N. 127° 32' 35"

PACIFIC WESTCOAST JUDILE 0-17

Unit 0, Sec. 17, Grid 127°, 30', 65°, 30'

Well Summary Report

Drilling
Authority No. 274
Issued - 23 Aug. 1967

1. SUMMARY OF PERTINENT INFORMATION

WELL NAME: Pacific Westcoast Judile 0-17
LOCATION: Unit 0, Sec. 17, Grid 127°, 30', 65°, 30'
CLASSIFICATION: Exploratory
CO-ORDINATES: Lat. 65°, 26', 53" N., Long. 127°, 32', 35".
ELEVATIONS: Ground 183' Datum.
WELL STATUS: Abandoned
SPUD DATE: Aug 24, 1967
FINISHED DRILLING DATE: Sept 8, 1967
RIG RELEASE DATE: Sept 10, 1967
TOTAL DEPTH: 1890
TITLE HOLDER: Crown
PERMIT NO.: P & N G 4486
OPERATOR: Pacific Petroleum Ltd.
PARTICIPANTS: Pacific Petroleum Ltd. 75.0%
Westcoast Transmissions Ltd. 12.5%
Western Pacific Ltd. 12.5%
DRILLING CONTRACTOR: Tri City Drilling Ltd. Rig No. 5

2. GEOLOGICAL SUMMARY

Formation Tops:

Imperial	285	(-102)
Canol	1264	(-1081)
Kee Scarp	1318	(-1135)
Hare Indian	1744	(-1561)

* Hole size: 4 3/4"

CASING: Ran 155' 5 1/2" 14# J-55 Casing and set @ 155' with 66 sacks + 2% CaCl₂

UNIVERSAL WELL LOCATION REFERENCE: Lat. 65.44805° N., Long. 127.54305° W.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

002

From	To	Descriptions
1810	1815	Limestone: coralline as above with Limestone: fragmental, as above, slightly siliceous with trace Siltstone: as above.
1815	1830	Siltstone: light greenish brownish grey, arenaceous, very calcareous and grading to Limestone: very silty, dense, minor Shale: medium to dark grey, minor Limestone: coralline as above.
1830	1840	Limestone: coralline as above with Siltstone: as above; Shale: as above.
		<u>HARE INDIAN 1840</u>
1840	1850	Shale: medium grey, soft, waxy appearance.
1850	1855	Shale: medium greenish brownish grey, slightly silty, slightly micaceous.
1855	1860	Shale: light to medium to dark brownish grey, very silty, with minor Siltstone: light to medium grey, slightly micaceous.
1860	1865	Shale: light to medium grey, slightly micaceous, slightly silty.
1865	1870	Shale: medium brownish grey, slightly silty, slightly mic- aceous.
1870	1875	Shale: medium to dark brownish grey, slightly micaceous, silty.
1875	1885	Shale: medium brownish grey, slightly micaceous, silty.
1885	1890	Shale: medium to dark brownish grey, slightly micaceous, slightly silty.
		1890 T. D.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

003

From	To	Descriptions
1655	1740	Limestone: coralline as above with minor Limestone: fragmental, as above, slightly siliceous, stylolites.
1740	1745	Limestone: coralline as above; Limestone: fragmental, as above, slightly siliceous.
1745	1755	Limestone: coralline as above, minor Limestone: fragmental, as above, slightly siliceous.
1755	1760	Limestone: fragmental as above, minor Limestone: coralline as above, slightly siliceous.
1760	1775	Limestone: coralline as above, minor Limestone: fragmental as above, slightly siliceous.
1775	1780	All as above, with occasionally light grey Siltstone streaks with cavings.
1780	1785	As above with Siltstone: light to medium greenish grey, very calcareous and Shale: light to medium grey, trace pyrite, partly cavings.
1785	1790	Limestones as above, with minor Siltstone: as above and Shale: as above, trace pyrite.
1790	1795	Limestones as above with Siltstone: light to medium greenish grey, slightly arenaceous, calcareous, trace pyrite.
1795	1810	Siltstone: light to medium brownish greenish grey, very calcareous, and grading to Limestone: light to medium brown grey, very silty, dense with Limestone: coralline as above and Shale: light to medium grey, trace pyrite.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

004

From	To	Descriptions
1455	1460	Limestone: white to cream to buff, fine to occasionally medium crystalline, coralline, dense, with Limestone: light brown to buff, fine crystalline, fragmental, siliceous, dense; Chert: white to cream to buff, trace clear coarse calcite.
1460	1570	All as above, sample slightly siliceous (no Chert), occasionally stylolites, trace clear calcite, medium to coarse crystalline, dense.
1570	1580	Limestone: white to cream to buff, fine crystalline, coralline, dense, with minor Limestone: light brown, fine crystalline, fragmental, dense, trace clear calcite, slightly siliceous.
1580	1615	Limestone: white to cream to buff, fine crystalline, coralline, dense, slightly siliceous, stylolites, with trace Limestone: light brown, fine crystalline, fragmental, dense, trace clear calcite, medium to coarse, dense.
1615	1625	Limestone: medium brown to buff, fragmental, dense, slightly siliceous, with Limestone: white to cream to buff, fine to medium crystalline, coralline, dense.
1625	1630	Limestone: white to cream to buff, fine to medium crystalline, coralline, dense, slightly siliceous, stylolites.
1630	1635	Limestone: medium brown to buff, fine crystalline, fragmental, dense, slightly siliceous, with Limestone: coralline as above.
1635	1640	Limestone: coralline as above, stylolites.
1640	1655	Limestone: medium brown to buff, fine crystalline, fragmental, dense, slightly siliceous, with Limestone: coralline as above.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

005

From	To	Descriptions
		Core # 1 1322 - 1341, 6
		Core # 2 1341, 6 - 1362
		Core # 3 1362 - 1382
		For lithology see core description.
1382	1385	Limestone: light to medium brown, fine crystalline, fragmental, very slightly siliceous, dense, with trace
		Limestone: cream, fine to medium crystalline, coralline, dense, trace of coarse clear calcite
1385	1390	All as above, chalky appearance due to bit damage
1390	1410	As above, with occasionally lime saturated Chert: light brown to cream.
1410	1430	Limestone: light to medium brown as above; Limestone: white to cream to buff as above; Chert: white to cream to light brown.
1430	1435	Limestone: white to cream to buff, fine to medium crystalline, coralline, dense, with Limestone: light to medium greyish brown, fine crystalline, fragmental, dense; Chert: as above.
1435	1445	Limestone: white to cream to buff, fine to medium crystalline, coralline, dense, with Limestone: light to medium brown, fine crystalline, fragmental, dense; Chert: as above.
1445	1450	As above, sample very siliceous.
1450	1455	As above, less siliceous.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

006

From	To	Descriptions
1170	1210	Shale: light to medium grey (occasionally brownish grey), slightly silty, trace ironstone.
1210	1230	Shale: medium to dark brownish grey, silty, ironstone.
1230	1250	Shale: medium to dark brownish grey, silty and grading to Siltstone: medium brownish grey, ironstone, trace pyrite.
1250	1260	Shale: medium to dark brownish grey, very slightly bituminous, silty, trace Limestone: cream to light to medium brown, fine crystalline, dense, trace pyrite.
<u>CANOL 1260</u>		
1260	1280	Shale: dark brown grey, slightly bituminous, silty, with trace Limestone: as above, trace pyrite.
1280	1290	Shale: dark grey brown, slightly bituminous, silty, with trace Limestone: as above, trace pyrite.
1290	1300	Shale: dark grey brown, silty.
1300	1312	Shale: medium to dark brownish grey, silty, slightly cal- careous (drilling brake).
<u>KEE SCARP 1312</u>		
1312	1320	Limestone: light brown to buff, crypto to fine crystalline, occasionally chalky appearance, coralline, dense (two grains of white chert).
1320	1322	Limestone: as above, minor clear coarse calcite filling in fissures; Chert nodules: light brown in Limestone.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

007

From	To	Descriptions
<u>PLEISTOCENE</u>		
0	10	Sand: White, red, yellow, black etc., medium to coarse, subangular to subrounded, medium to well sorted, mixed with Shale and Siltstone: light brownish grey, occasionally slightly calcareous and Chert: dark brown to black.
10	20	Sand: varicoloured as above, medium coarse, well sorted, subrounded; Chert: dark brown to black.
20	30	Sand: varicoloured, medium to coarse to very coarse, medium sorted; Siltstone: light brownish yellowish grey, calcareous; Shale: dark brown to black; Chert: dark brown to black.
30	35	Sand: as above, very coarse with Siltstone: reddish brown, very calcareous.
<u>CRETACEOUS 35</u>		
35	40	Shale: medium to dark grey brown, hard, slightly bituminous; Shale: light to medium grey, silty, very slightly calcareous; Siltstone: light to medium yellowish greenish grey, slightly calcareous.
40	70	Shale: light to medium grey; trace Siltstone: light grey.
70	120	Shale: as above, with ironstone: light to medium greenish brownish grey, occasionally calcareous and some calcite fills fissures in ironstone.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

008

From	To	Descriptions
820	830	Siltstone: light to medium grey, calcareous; Shale: as above, mica.
830	870	Shale: light to medium brownish grey with Siltstone: light to medium brownish grey, slightly calcareous, trace mica.
870	880	Shale: light to medium grey, silty, trace mica, with minor Siltstone: as above, very slightly calcareous.
880	900	Shale: light to medium grey, slightly silty.
900	910	Shale: light to medium grey, silty, very slightly calcareous.
910	970	Shale: light to medium grey, occasionally light to medium brownish grey, silty, trace pyrite, occasionally very slightly calcareous.
970	990	Shale: as above, slightly silty, trace pyrite.
990	1030	Shale: medium brownish grey, silty, trace Limestone: light brown, fine crystalline, dense, minor ironstone, trace pyrite.
1030	1040	Shale: medium to dark brown grey, very slightly bituminous, trace mica, trace ironstone.
1040	1110	Shale: light to medium grey, silty.
1110	1120	Shale: light to medium grey, silty with minor Siltstone: light to medium grey, very slightly calcareous.
1120	1150	Shale: medium brownish grey, silty.
1150	1170	Shale: light to medium grey, silty, very slightly calcareous, trace pyrite.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

009

From	To	Descriptions
680	690	Shale; medium to dark brown grey. with minor Siltstone: as above: Ironstone: trace pyrite.
690	710	Shale; medium to dark brownish grey, silty, ironstone.
710	720	Siltstone: light brownish grey, very calcareous, grading to Sandstone: light brownish grey, very fine, poor sorted, subangular, very calcareous, cemented by brownish lime and calcite, trace mica with traces of Limestone: light to medium brown, fine crystalline, very silty, dense: Shale: as above.
720	730	Siltstone: light brownish grey, trace mica, grading to Sandstone: light brownish grey, very fine, poor sorted, subangular, tight, with Shale: as above, mica.
730	740	Siltstone: light brownish grey, trace mica, with Shale: as above.
740	750	Shale: medium to dark brownish grey, silty, minor Siltstone: as above, mica.
750	790	Shale: light to medium brownish grey, very silty and grading into Siltstone: light to medium grey, trace mica.
790	800	Shale: as above, grading into Siltstone: light to medium grey, slightly calcareous, mica, trace ironstone.
800	810	Shale: as above; Siltstone: as above, trace mica.
810	820	Shale: light to medium grey, very silty, very slightly calcareous.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

010

From	To	Descriptions
460	470	Sandstone: light grey, very fine, poor sorted, subangular, right, with Siltstone: light grey and minor Shale: light to medium grey, pyritic, ironstone.
470	480	Siltstone: light to medium grey, very slightly calcareous, trace ironstone.
480	490	Shale: medium to dark brown grey, very silty, trace mica.
490	500	Shale: light to medium grey, very silty and grading into minor Siltstone: light grey.
500	510	Siltstone: light grey, arenaceous, with minor Shale: as above, mica, trace pyrite.
510	520	Shale: medium brownish grey, with Siltstone: light brownish grey, mica and traces of dolomitised Limestone: light to medium brown, fine crystalline, dense.
520	610	Siltstone: light brownish grey, slightly arenaceous, trace mica, occasionally slightly calcareous, with Shale streaks: light to medium grey, mica, and traces of Limestone: as above.
610	650	Siltstone: light brownish grey, slightly arenaceous, trace mica, very calcareous with Shale: as above, and trace Limestone: as above.
650	660	Siltstone: light grey, slightly arenaceous, trace mica, calcareous with Shale: as above, trace pyrite, trace Ironstone.
660	680	Shale: medium brownish grey, silty, grading to minor Siltstone: light to medium brownish grey.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

011

From	To	Descriptions
		IMPERIAL 310
310	330	Siltstone; light grey, very slightly calcareous, with Shale; light to medium grey, minor pyrite.
330	340	Shale; light to medium brownish grey, very silty and grading into Siltstone; light grey, very slightly calcareous, mica.
340	350	Siltstone; as above; Shale; as above, trace pyrite.
350	360	Siltstone; as above; minor Shale; as above.
360	400	Siltstone; light grey, slightly calcareous, arenaceous, and grading into Sandstone; light grey, very fine, subangular, medium sorted, slightly calcareous, tight, minor Shale; as above; trace ironstone; medium brown, trace pyrite.
400	420	Limestone; white to cream to buff, fine crystalline, coralline (<u>Amphipora?</u>), trace pyrobitumen residue, dense, with Limestone; light to medium brown, fine to medium crystalline, fragmental, dense, and with clear calcite, coarse crystalline, filling in fissures; Shale; light to medium grey, silty and grading into Siltstone; light to medium grey.
420	450	Shale; light to medium grey, very silty and grading into minor Siltstone; light to medium grey, trace mica.
450	460	Shale; as above, grading into Siltstone; light to medium grey with minor Limestone; medium brown, fine crystalline, dense, very pyritic, trace ironstone.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

012

From	To	Descriptions
230	240	Shale: medium brownish grey, silty and arenaceous interlaminated with Siltstone: light grey and Sandstone: light grey, fine, angular to subangular, well sorted, slightly calcareous, glauconitic, tight to very poor intergranular porosity, pyrite.
240	270	Sandstone: white to light grey, fine, with occasionally medium and coarse quartz grains, poor to medium sorted, angular to subangular, glauconitic, slightly calcareous, tight to poor to fair intergranular porosity (if not cemented by calcite and argillaceous material). interlaminated with Shale: light to medium grey, very silty and Siltstone: light grey, slightly calcareous, glauconitic.
270	290	Shale: light to medium brownish grey, mica, interlaminated with Siltstone: light grey, slightly glauconitic and Sandstone: light grey, very fine to fine, angular to subangular, medium sorted, glauconitic, tight to occasionally poor to fair porosity (if not cemented), minor pyrite.
290	300	Siltstone: medium grey brown with Shale: medium brownish grey; Siltstone: as above and minor Sandstone: as above
300	310	Siltstone: light grey, very slightly calcareous, very slightly glauconitic, arenaceous and grading into Sandstone: light grey, very fine, medium sorted, subangular, slightly calcareous, glauconitic, tight, with Shale: light to medium brownish grey, pyrite.

SAMPLE DESCRIPTIONS
WELL PACIFIC WESTCOAST JUDILE 0 - 17

013

From	To	Descriptions
120	140	Shale: light to medium grey, silty and grading into minor Siltstone: light grey, glauconitic, slightly calcareous, grading into minor Sandstone: light grey, very fine, medium sorted, subangular to subrounded, glauconitic, slightly calcareous, tight; Ironstone: medium greenish brown grey with fissures filled with calcite; medium brown, trace pyrite.
140	150	Shale: medium brownish grey, very silty, slightly glauconitic and grading into Siltstone: light grey, glauconitic, very slightly calcareous, grading into Sandstone: light grey, very fine, medium sorted, subrounded, tight, minor ironstone; light to medium brown, minor pyrite.
150	160	Siltstone: light grey, slightly glauconitic, slightly calcareous, arenaceous, minor mica.
160	170	Siltstone: as above and Shale: medium brownish grey.
170	180	Shale: medium brownish grey and minor Siltstone: as above.
180	190	Shale: medium to dark brownish grey, very silty, mica, trace pyrite.
190	210	Shale: as above with Siltstone streaks - medium brownish grey, trace glauconite.
210	230	Shale: medium to dark brownish grey, very silty and grading into Siltstone: light to medium grey, arenaceous and grading into minor Sandstone: light grey, very fine, medium sorted, subangular to subrounded, tight, occasionally glauconitic, minor pyrite.

CORE DESCRIPTIONS

Form 2011

WELL PACIFIC WESTCOAST JUDILE 0 - 17

U14

CORE NO.	FROM	TO	SEC.	PICKUP	FORMATION	DATE
1	1322	1342	19.6'	-	KEE SCARP	Sept. 1/67

1322 - 1323.7	1.7'
Limestone consisting of (45%) corals, which is: white to cream to buff, fine to medium to trace coarse crystalline, (0.1" corals and rare 1" stromatoporoids), dense, with one coral primary porosity and very minor poor pin point porosity; matrix (50%) is	
Limestone: light to medium brown, fine crystalline, fragmental, dense, trace siliceous residue; trace of clear	
Calcite (5%): medium crystalline, dense, which fills in fissures; partly stylolitic.	
1323.7 - 1330	6.3'
Limestone consisting of (60%) corals, which is: white to cream to buff, fine to medium crystalline, (0.1" corals and 1" to 4" stromatoporoids), dense; matrix (35%) is	
Limestone: light to medium brown, fine crystalline, fragmental, dense, trace siliceous residue;	
trace of clear calcite (5%): medium crystalline, fills in fissures, dense; slightly stylolitic.	

CORE TIME	No coring times measured, but was about 1' in 18 minutes.
-----------	---

CORE DESCRIPTIONS

Form 2011

WELL PACIFIC WESTCOAST JUDILE 0 - 17

015

COAS NO.	FROM	TO	REC.	PICKUP	FORMATION	DATE
1	1322	1342	19.6'	-	KEE SCARP	Sept. 1/67

1330 - 1333	3'	
	Limestone consisting of (70%) corals, which is: white to cream to buff, fine crystalline, reworked appearance, dense; matrix (20%) is	
	Limestone: light to medium brown, fine crystalline, fragmental, dense;	
	clear Calcite (10%): medium to coarse crystalline, dense; slightly stylolitic.	
1333 - 1336	3'	
	Limestone consisting of (80%) stromatoporoids, which is: cream to buff, fine to medium crystalline, dense; matrix (10%) is	
	Limestone: light to medium brown, fine crystalline, fragmental, very slightly argillaceous and very slightly siliceous, dense;	
	clear Calcite (10%): dense.	
1336 - 1340	4'	
	Limestone consisting of (55%) corals and stromatoporoids, which is: cream to buff, fine crystalline, dense; matrix (40%) is	
	Limestone: medium to dark brown, fine crystalline, slightly bituminous, slightly argillaceous, slightly siliceous, fragmental, dense;	
	with clear Calcite (5%): medium crystalline, dense.	

CORE TIME	

CORE DESCRIPTIONS

Form 2011

WELL PACIFIC WESTCOAST JUDILE 0 - 17

017

CORE NO.	FROM	TO	SEC.	PICKUP	FORMATION	DATE
2	1341.6	1362	20.4'	0.4	KEE SCARP	Sept. 1/67

1341.6 - 1344	2.4'
---------------	------

Limestone consisting of (30%) corals and stromatoporoids, which is:
cream to buff, fine crystalline, slightly siliceous, dense; matrix (60%) is
Limestone: medium to dark brown, fine crystalline, very slightly bit-
uminous, fragmental, very slightly argillaceous, slightly siliceous, dense;
clear Calcite (10%): medium to coarse crystalline, dense.

1344 - 1351.9	7.9'
---------------	------

Limestone consisting of (10%) corals and stromatoporoids, which is:
cream to buff, fine crystalline, dense; matrix (90%) is
Limestone: light to medium brown, fine to occasionally medium crystalline,
fragmental, slightly siliceous, dense; trace stylolites: on stylolite
surfaces, traces of gilsonite?

CORE TIME	Approximate coring times: 18 minutes - 1'.
-----------	--

CORE DESCRIPTIONS

Form 2011

018

WELL PACIFIC WESTCOAST JUDILE 0 - 17

CORE NO.	FROM	TO	REC.	PICKUP	FORMATION	DATE
2	1341.6	1362	20.4	0.4	KEE SCARP	Sept. 1/67

1351.9 - 1354.3	2.4'	Limestone consisting of (40%) corals and stromatoporoids, which is: cream to buff, fine to medium crystalline, dense; matrix (45%) is Limestone: light to medium brown, fine to occasionally medium crystalline, fragmental, siliceous, dense; clear Calcite (15%): medium to coarse crystalline, dense.
1354.3 - 1355.6	1.3'	Limestone consisting of (10%) corals and stromatoporoids, which is: cream to buff, fine crystalline, dense, matrix (80%) is Limestone: light to medium brown, fine to occasionally medium crystalline, slightly siliceous, fragmental, dense; clear Calcite (10%): medium to coarse crystalline, dense.
1355.6 - 1362	6.4'	Limestone consisting of (95%) fragmental Limestone: light to medium brown, fine to medium crystalline, dense, and with trace of clear Calcite (5%): medium to coarse crystalline; stylolites (stylolites surface occasionally with gilsonite to 2 mm. thick).

CORE TIME	

CORE DESCRIPTIONS

019

WELL PACIFIC WESTCOAST JUDILE 0 - 17

CORE NO.	FROM	TO	SEC.	PICKUP	FORMATION	DATE
3	1362	1382	20'	-	KEE SCARP	Sept. 1/67

1362 - 1368.5	6.5'	
	Limestone consisting of (20%) corals, which is; cream to buff, fine to medium crystalline, dense; matrix (70%) is	
	Limestone: light to medium brown, fine crystalline, slightly siliceous, fragmental, dense; clear	
	Calcite (10%): medium to coarse crystalline, dense; on stylolite surfaces occasionally gilsonite.	
1368.5 - 1372.3	3.8'	
	Limestone consisting of (50%) corals (3 mm), which is; cream to buff, fine to medium crystalline, mottled appearance, dense; matrix (50%) is:	
	Limestone: light to medium brown, fine crystalline, fragmental, slightly siliceous, dense; occasionally stylolites with gilsonite.	
1372.3 - 1372.4	0.1'	
	Large stylolite with gilsonite.	

CORE TIME	Approximate 18 minutes - 1'.

CORE DESCRIPTIONS

WELL PACIFIC WESTCOAST JUDILE 0 - 17

020

CORE NO.	FROM	TO	SEC.	PICKUP	FORMATION	DATE
3	1362	1382	20'	-	KEE SCARP	Sept. 1/67

1372.4 - 1373.9	1.5'	Limestone (100%); medium brown, fine crystalline, fragmental, slightly siliceous, dense.
1373.9 - 1375.1	1.2'	Limestone consisting of (50%) corals and stromatoporoids, which is: cream to buff, fine to medium crystalline, dense; matrix (50%) is Limestone: medium brown, fragmental, slightly siliceous, dense.
1375.1 - 1377.7	2.6'	Limestone consisting of (10%) corals, which is: cream to buff, fine to medium crystalline, dense, matrix (90%) is Limestone: medium brown, fine crystalline, fragmental, slightly siliceous, very slightly argillaceous, dense.
1377.7 - 1377.7	0.05'	Shale: medium green, soft, waxy appearance.
1377.7 - 1378	0.3'	Limestone (100%): light to medium brown, fine crystalline, slightly siliceous, fragmental, dense.
CORE TIME		

021

1378 - 1380.7	2.7'	Limestone consisting of (10%) corals, which is: cream to buff, fine to medium crystalline, dense; matrix (90%) is Limestone: medium brown, fine crystalline, very slightly bituminous, slightly argillaceous, slightly siliceous, fragmental, dense.
1380.7 - 1382	1.3'	Limestone (100%): medium brown, fine crystalline, very slightly bituminous, slightly argillaceous, slightly siliceous, fragmental, dense.

CORE TIME	

PACIFIC WESTCOAST JUDILE 0-173. ENGINEERING SUMMARY

Drill Stem Tests

*Pressures given are field
pressures. See charts for
office - corrected pressures.*

#1 1320'-1382' (Kee Scarp)

Preflow 5 min, ISI 30 min., VO 60 min.,
FSI 60 min. No blow on preflow. Weak air
blow increasing to fair for first 4 min.
on VO decreasing to weak and died after 15 min.
IHP 945, FHP 871, IFP 52; FFP 105, ISIP 630,
FSIP 635. Recovered 10' drilling mud.

#2 1382'-1890' (Kee Scarp & Hare Indian)

Preflow 5 min., ISI 30 min, VO 60 min., FSI
60 min, Weak initial puff. Weak air blow on
VO died in 7 min. IHP 740, FHP 682; IFP
599, FFP 609, ISIP 625, FSIP 599. Recovered
500'. drilling mud.

#3 1330'-1890' (Kee Scarp & Hare Indian)

Misrun.

#4 1350'-1890' (Kee Scarp & Hare Indian) Pre

flow 5 min., ISI 30 min, VO 60 min., FSI 60 min
Fair initial puff. Fair airblow during VO, died in
7 min. IHP 662; FHP 630; IFP 446; FFP 557,
ISIP 551, FSIP 557. Recovered 900' drilling
mud.

Casing Records:

Surface: Ran 155', 5 1/2" OD, 14#, J-55, Rge 2,
new set at 155' ground level with 66 sacks
construction cement plus 2% CaCl₂. Returns
to surface.

Production - None

Tubing - None

None

Lost Circulation Zones

4. COMPLETION SUMMARY

Plug Record:

#1 1890'-1700' with 19 sacks construction cement ^{+ 2% CaCl₂}
#2 1365'-1200' with 16 sacks construction cement
plus 2% CaCl₂. Felt after 10 hours at 1190'.
#3 208'-0' with 35 sacks construction cement
plus 2% CaCl₂.

Perforation Record

None

Treatment Record

None

5. SUMMARY OF ANALYSES

Core Analysis

None

PACIFIC WESTCOAST JUDILE 0-175. SUMMARY OF ANALYSES - Continued

Gas Analysis
Oil Analysis
Water Analysis

None
None
C & G Lab E67 -2907X -1A
C & G Lab E67 -2907X - 2A
C & G Lab E 67-2907X 3A (mud sample)
DST #4 1350'-1890'

6. LOGGING SUMMARY

<u>Log</u>	<u>Run No.</u>	<u>Interval</u>	<u>Date Run</u>
Electric Log	1	1890'-155'	Sept 8, 1967
Gamma Ray log	1	1890'-155'	Sept 9, 1967

7. DAILY DRILLING SUMMARY

<u>Date</u>	<u>Depth</u>	<u>Footage</u>	<u>Remarks</u>
8-24-67	180	180	Drilling. Well spudded 5:00 A.M.
8-25-67	405	225	Waiting on cement. Ran and set 5½" casing at 155' ground level.
8-26-67	420	15	Drilling. 155'-2°
8-27-67	700	280	Drilling.
8-28-67	910	210	Drilling. 680'-2°.
8-29-67	1075	165	Drilling.
8-30-67	1200	125	Drilling.
8-31-67	1320	120	Drilling. 1210'-3/4°
9- 1-67	1382	62	Reaming. Cut core #1 - 1322' - 1342'. Rec'd 19.6'. Cut core #2 - 1342'-1362'. Rec'd 20.4'. Cut core #3 - 1362'-1382'. Rec'd 20'.
9- 2-67	1430	48	Drilling. Ran DST #1- 1320' - 1382'.
9 3-67	1530	100	Drilling.
9 4-67	1570	40	Waiting for rig repairs.
9- 5-67	1610	40	Drilling.

PACIFIC WESTCOAST JUDILE 0-17

024

<u>Date</u>	<u>Depth</u>	<u>Footage</u>	<u>Remarks</u>
9-6-67	1735	125	Drilling
9-7-67	1850	115	Drilling
9-8-67	1890 TD	40	Fishing. Ran DST #2 - 1382'-1890'. Ran electric log 1890-155'
9-9-67	1890 TD	0	Waiting on cement. Ran DST #3 - 1330'-1890' misrun. Ran Gamma-ray log 1890'-155'. Ran DST #4 1350'-1890'. Ran plug #1 - 1890'-1700'. Ran plug #2 - 1365'-1200'.
9-10-67	1890 TD	0	Rig released. Felt plug #2 at 1190'. Ran plug #3 - 208'-0'. Weld steel plate on casing and install 4' riser and name plate. Well abandoned.

Lab No. E67-2907X-3A

Pacific Northwest Juddla 0-17
 65° 26' 53" N 129° 32' 35" W
 Wildcat

Pacific Northwest Juddla 0-17
 65° 26' 53" N 129° 32' 35" W
 Wildcat

Sample Interval: . . .

Date: Sept, 91

Date: Sept. 9, 1967

Pattern Unit 1229/L

Analysis determined on colourless water
Cl extracted from mud.

CS CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E67-2907X-1A

Received Sept. 15, 1967 Reported: Sept. 22, 1967 Well location: Pacific Westcoast Judite 0-17
 Operator: Pacific Petroleum Ltd. Field or Area: Wildcat
 Elev. K.B. ... 183' (from Zone/Fermentation) Kae Scarp
 Method of measurement: D.S.T. #4 Sampled from: 900' above top of tool Sampled by: G. Van Heusden Date: Sept. 9, 1967
 OTHER PERTINENT DATA Recovered: 900' mud.

(Signed)

mg/l	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
				130		
mg/l						
mg/l						

Total Solids "mg/l" By Evaporation Fe Specific Gravity @60°F Observed pH @
 Calculated After Ignition H₂S Refractive Index @25°C Resistivity 9.30 ohm meters @ 68 °F
 Pattern Unit mg/L

Remarks and Conclusions
 Analysis determined on colourless water
 extracted from mud.

ROUTE TO	Acknowledged
11/10/67	
D. J. K. L.	
FILE: Judite 0-17	
Lab. L.L.	

Lab No. F67-2907X-2A

037

Pacific Northwest Juggle 0-17
65° 26' 53" N 129° 32' 35" W

Ident

Ken Scarp

Sample Interval: 1350' - 1690'

Sampled from: Top of rock

Sampled by: C. Van Housden

Date: Sept. 9, 1967

ONE REFINIT DATA Recovered: 900' full.

(Signed)

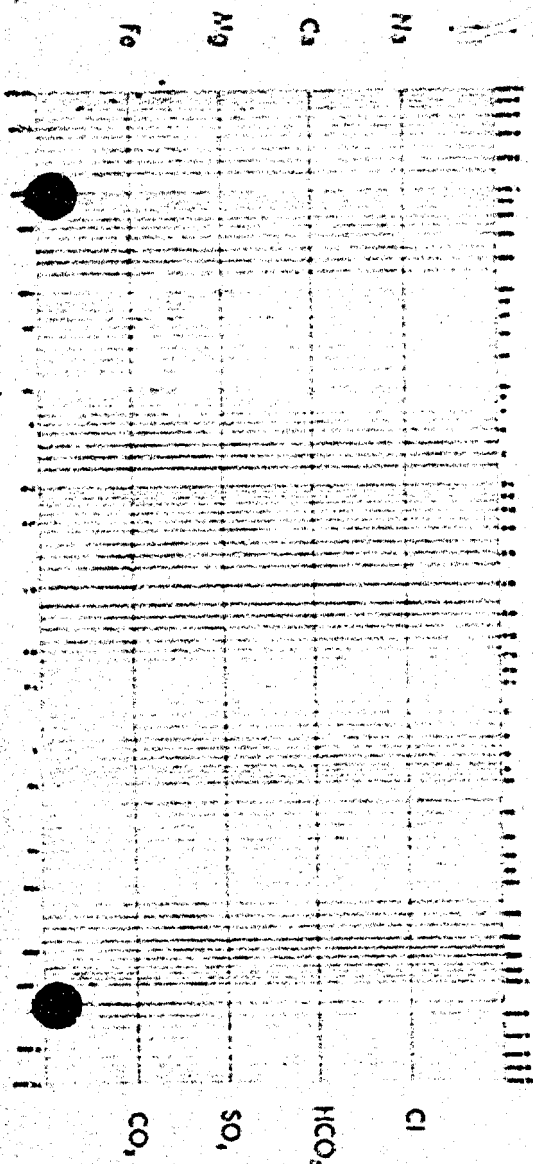
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	By Evaporation	Fe	Specific Gravity	@ 60°F	Observed pH	@
Total Solids, Mg/L						
Calculated	After Ignition	M.S.	Refractive Index	@ 25°C	Resistivity 9.69 ohm meters @	68 °F

Pattern Unit Req./L

Remarks and Conclusions

Analysis determined on colourless water extracted from mud.





Formation Test

TECHNICAL REPORT

This Technical Report supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

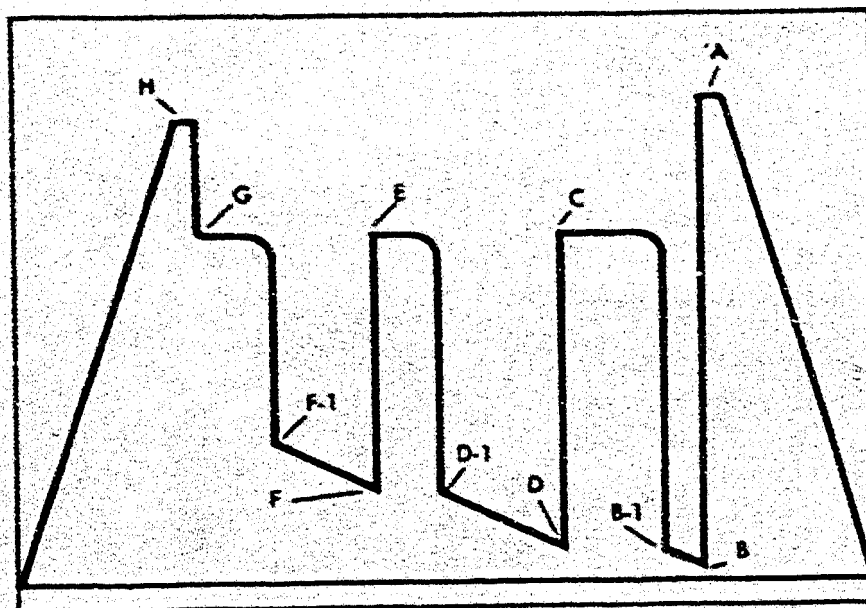
Johnston's Special Data Analysis provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.

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[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 prints 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.



FIELD
REPORT NO.

C-10155

RECORDER NO.

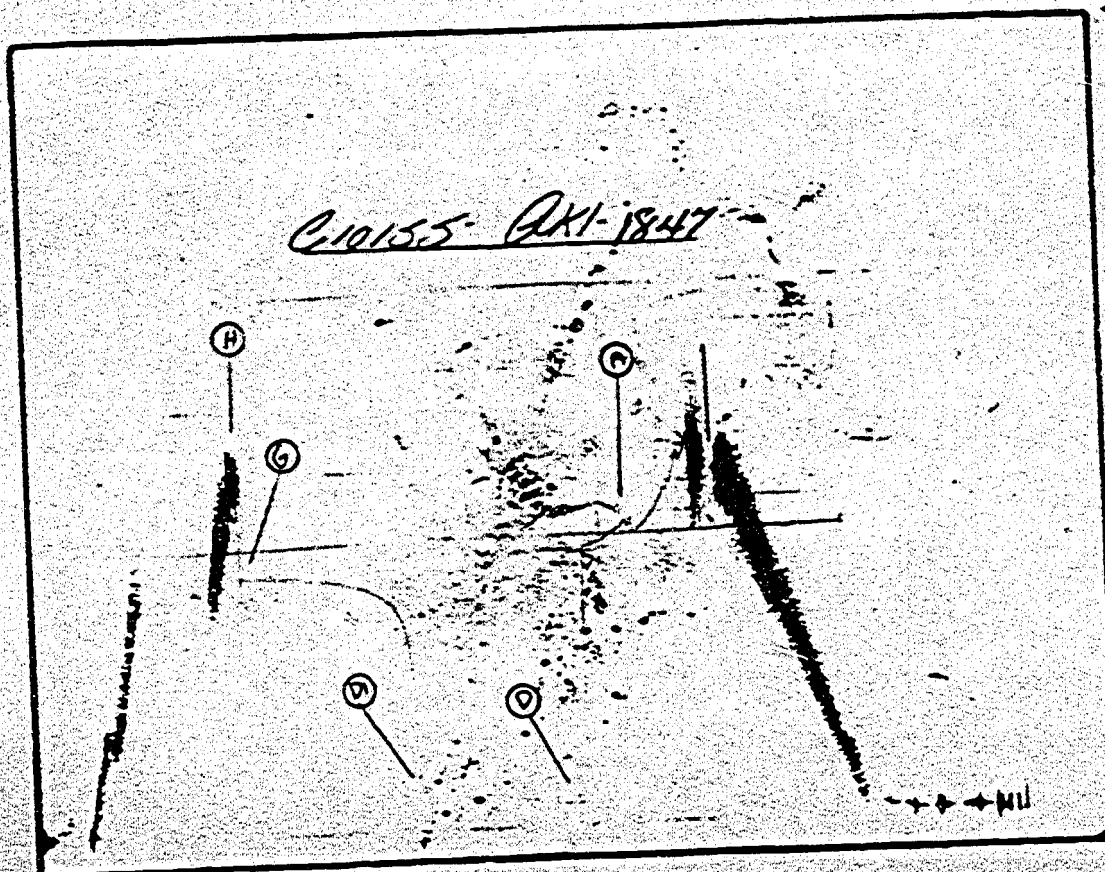
AK1-1847

CAPACITY

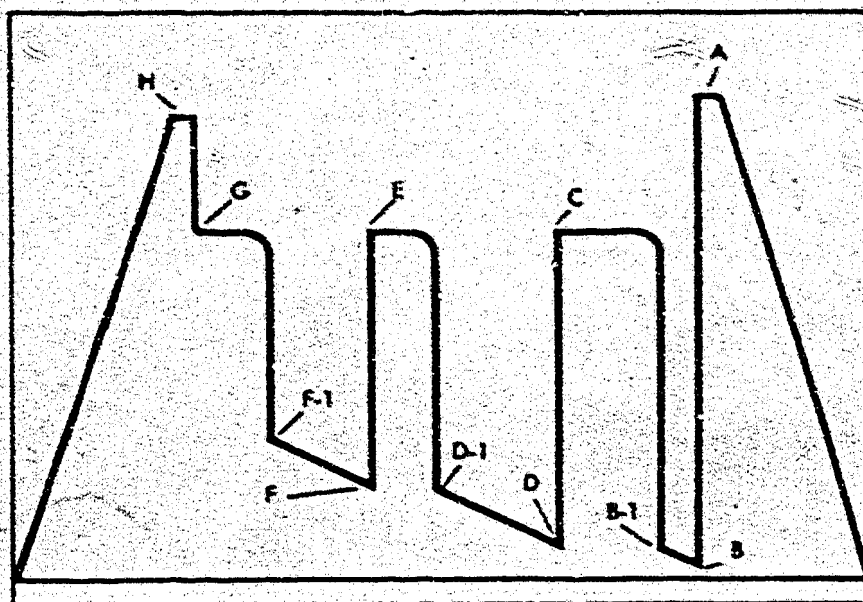
2100

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. Pressure
- Z—Special pressure points such as pumping pressures recorded for formation breakdown.

FIELD
REPORT NO.

C-10155

RECORDER NO.

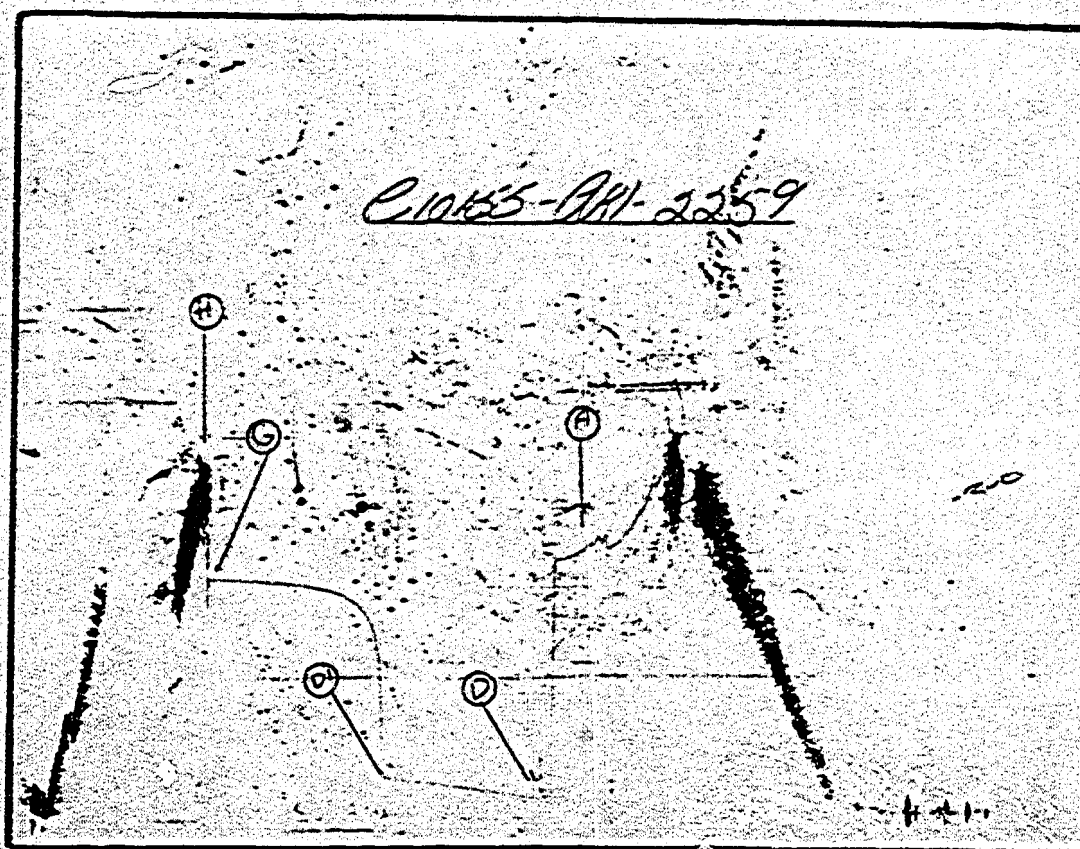
AK1-2259

CAPACITY

2500

REPORTS
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6





Formation Test TECHNICAL REPORT

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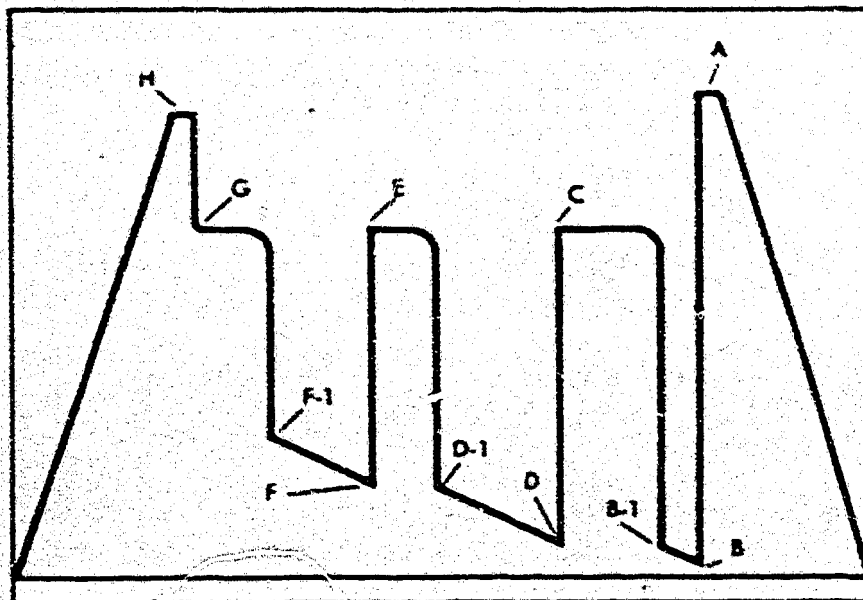
Johnston's Special Data Analysis provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.

TEST DATA					TOOL SEQUENCE		
Formation	KEE SCARP		Zone Thickness	Ft.	Tool	Length	O.D.
Interval	1382	To	1890	T.D.	1890	NOT REPORTED	
Type of Test	OPEN HOLE, BOTTOM HOLE						
Time Started in Hole	0500	Hrs.	Tool Opened	0705	Hrs.		
First Flow	5	Min.	Shut In	30	Min.		
Second Flow	60	Min.	Second Shut In		Min.		
Third Flow		Min.	Final Shut In	60	Min.		
Pulled Loose at	0940	Hrs.	Out of Hole	1145	Hrs.		
Wt. Set on Packers	#		Pulled Loose Wt.	#			
Description of Blow During Test			WEAK BLOW, DEAD IN 7 MINUTES.				
FLUID RECOVERY							
Was Test Reverse Circulated			Yes ☐	No ☐			
Total Fluid Recovered	500'			Ft.			
Description of Fluid Recovered			500' DRILLING FLUID.				
GAS BLOW MEASUREMENT							
Measured With			I.D. Riser				
Type of Instrument							
Time	Size, Choke	Reading, inches	Cubic Feet/Day				
TOTAL LENGTH							
Elevation			183 GL				
Bottom Hole Choke Size			1 1/2"				
Fluid Cushion Type			Amt.				
MUD AND HOLE DATA							
Mud Type			GEL		W.L.		
Filter Cake			Visc. 52		Wt. 10.6		
Time Taken							
Contractor			TRI CITY DRILG.		Rig No.		
Drill Pipe Size			2 3/8				
Drill Collar Size					Length 40'		
Main Hole Size			4 3/4"				
Rat Hole Size							
REMARKS M13-RUN.							
District EDMONTON Ticket No. C-10156 Date SEPT. 8, 1967 Test No. 2 J.T.L. No. 2							
Company PACIFIC PETROLEUMS LTD. Address 320 - 9TH AVENUE S.W.,							
Well Name PACIFIC WESTCOAST JUDILE 0-17 CALGARY, ALBERTA							
Number 65°-26'-53N-127°-32'-35"W Field WILDCAT Province YUKON							
Formation KEE SCARP DST# 2 Co. Rep. V. HEYSDEN							
and Interval 1382-1890 Technician TRI-CITY							
Distribution of Reports 5 - CALGARY							
1 - EDMONTON (ENCLOSED)							

PRESSURE DATA					FIELD REPORT No. C-10156	
INSTRUMENT No.		AK1-1847	AK1-2259			
CAPACITY (gals)		2100	2300			
INSTRUMENT DEPTH		1402	1407			
INSTRUMENT OPENING		OUTSIDE	OUTSIDE			
PRESSURE GRADIENT psi/ft.						
WELL TEMP. °F						
						TIME DATA
INITIAL HYDROSTATIC	A	740#	741#			
FIRST FLOW	B					
INITIAL SHUT-IN	C	FALSE				
SECOND FLOW	D	628#	628#			
		387#	394#			
SECOND SHUT-IN	E					
THIRD FLOW	F					
FINAL SHUT-IN	G	625#	630#			
FINAL HYDROSTATIC	H	698#	704#			
REMARKS:						

[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.

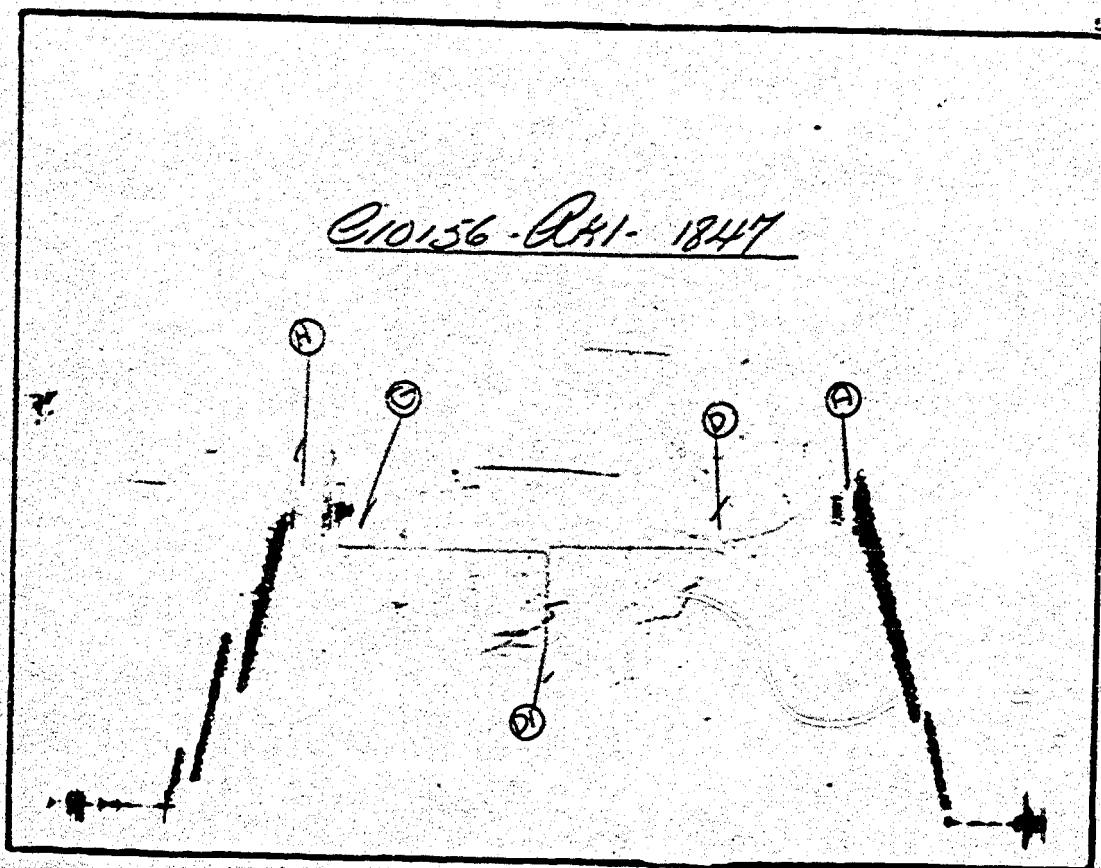


FIELD
REPORT NO.
C-10156

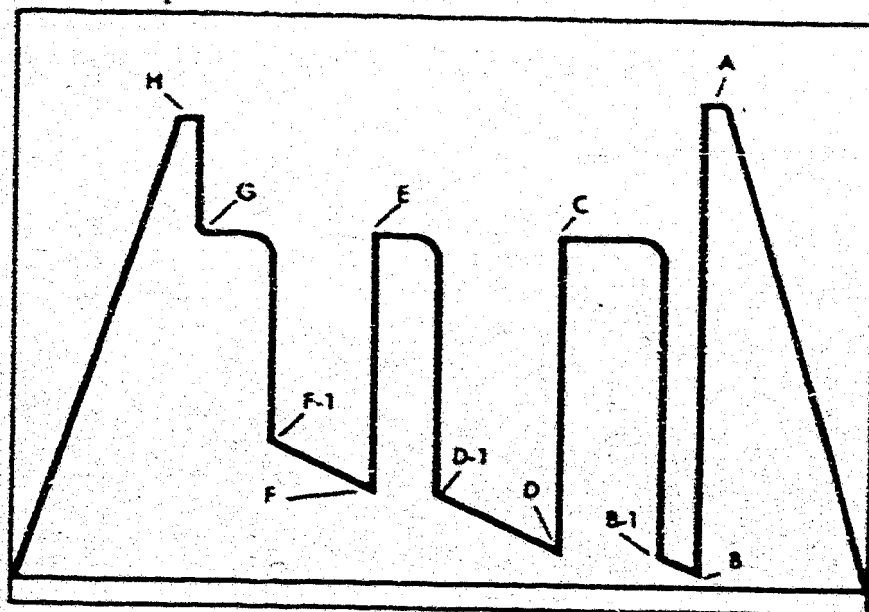
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CAPACITY
2100

REPORTS
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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).

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- 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.

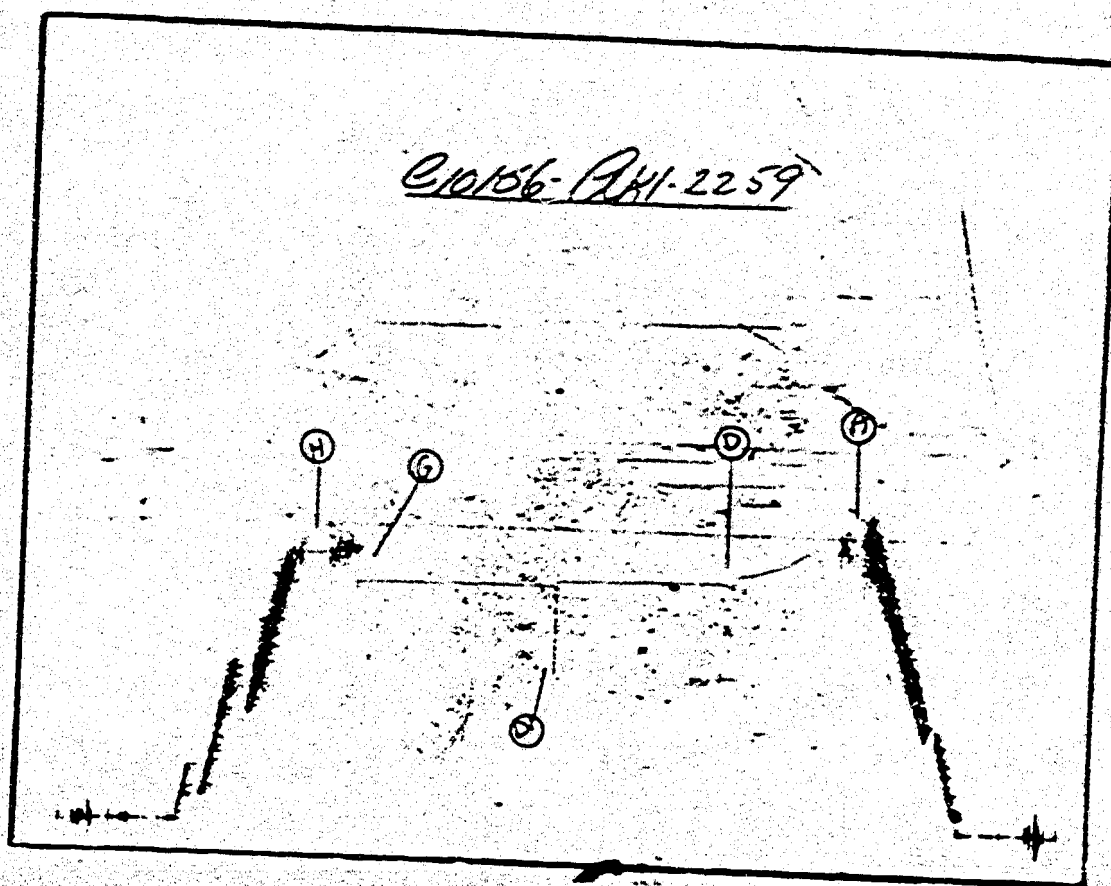


FIELD
REPORT NO.
C-10156

RECORDER NO.
AK1-2259

CAPACITY
2300

REPORTS
REQUESTED
6





Formation Test TECHNICAL REPORT

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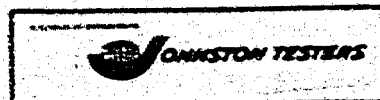
Johnston's Special Data Analysis provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a ver-~~table~~ written analysis of these data that can provide important help in planning your completion.



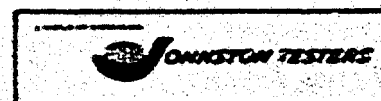
Formation Test TECHNICAL REPORT

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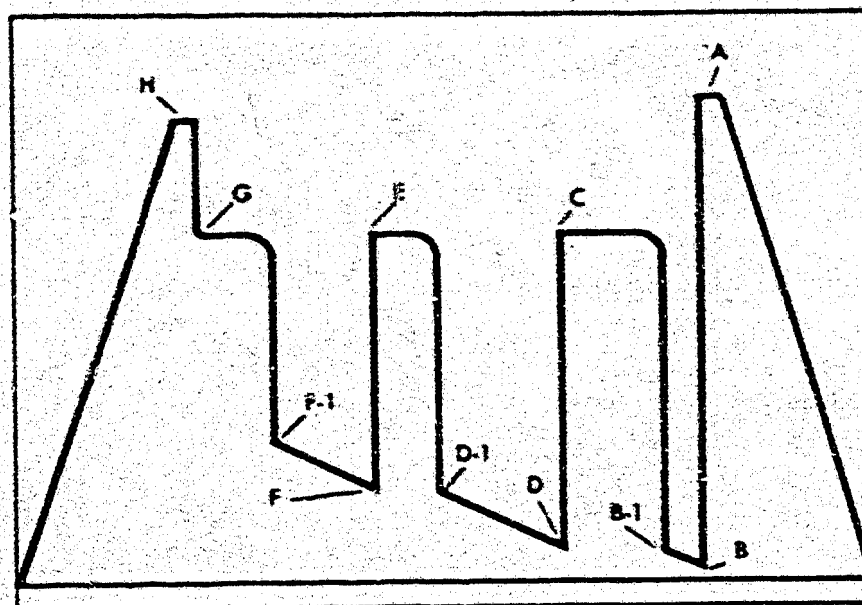
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[illegible]

[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.



FIELD
REPORT NO.

C-10155

RECORDER NO.

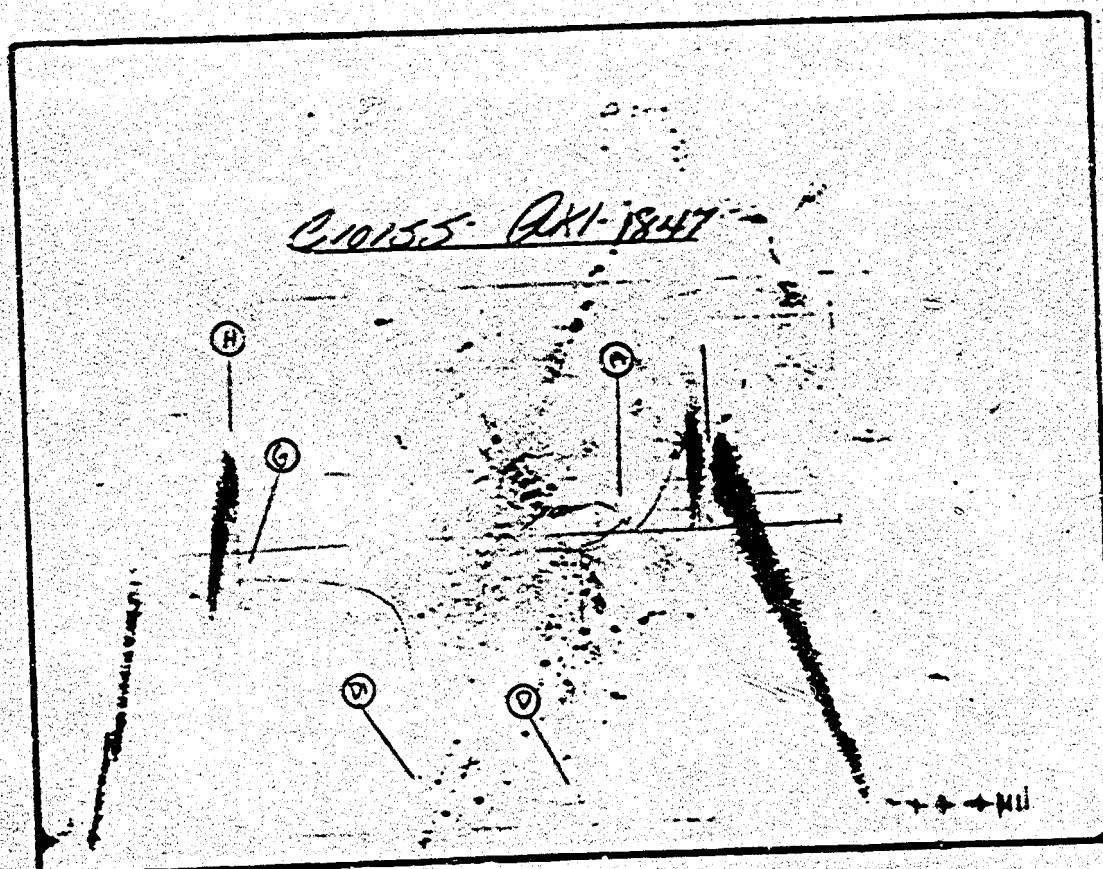
AK1-1847

CAPACITY

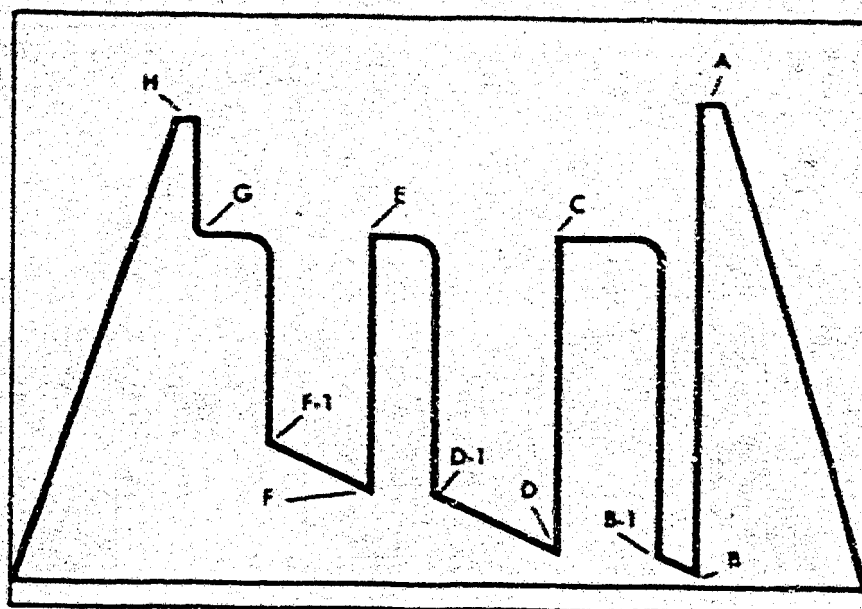
2100

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.



FIELD
REPORT NO.

C-10155

RECORDER NO.

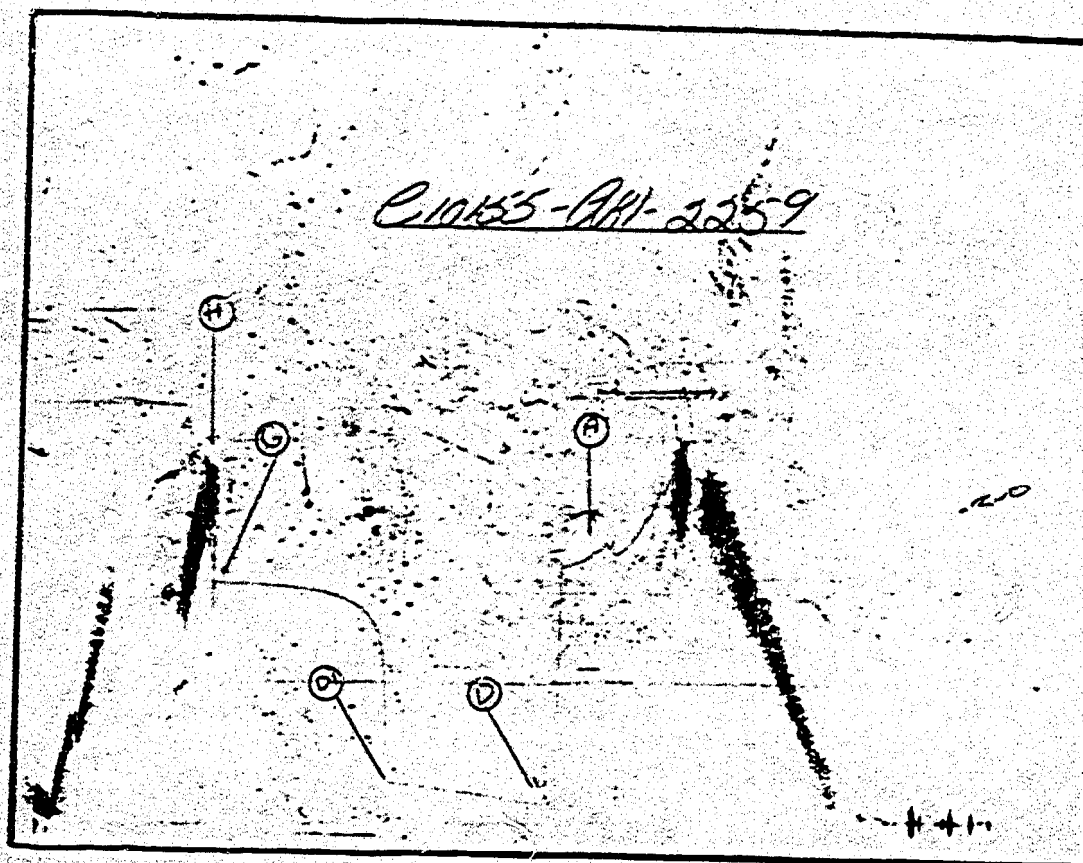
AK1-2259

CAPACITY

2300

REPORTS
REQUESTED

6





Formation Test TECHNICAL REPORT

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[illegible]

FIELD REPORT No. C-10156

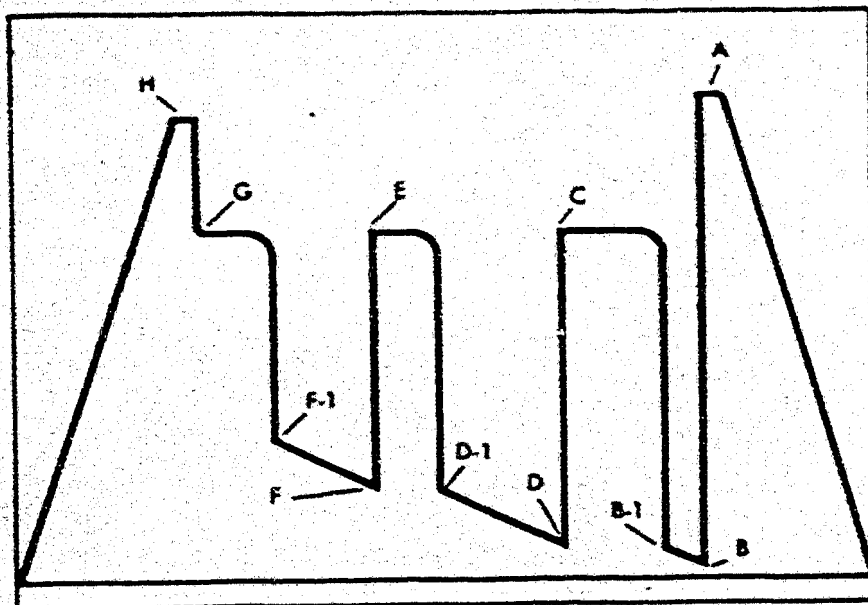
INSTRUMENT No.		AK1-1847	AK1-2259		FIELD REPORT No. C-10156
CAPACITY (gals.)		2100	2300		
INSTRUMENT DEPTH		1402	1407		
INSTRUMENT OPENING		OUTSIDE	OUTSIDE		
PRESSURE GRADIENT psi/ft.					
WELL TEMP. °F.					TIME DATA
INITIAL HYDROSTATIC	A	740#	741#		TIME GIVEN
FIRST FLOW	B				TIME COMPUTED
					MIN'S
INITIAL SHUT-IN	C		FALSE		MIN'S
SECOND FLOW	D	628#	628#		MIN'S
		387#	394#		MIN'S
SECOND SHUT-IN	E				MIN'S
THIRD FLOW	F				MIN'S
					MIN'S
FINAL SHUT-IN	G	625#	630#		MIN'S
FINAL HYDROSTATIC	H	698#	704#		MIN'S
					CLOCK TRAVEL
					IN./MIN.

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.

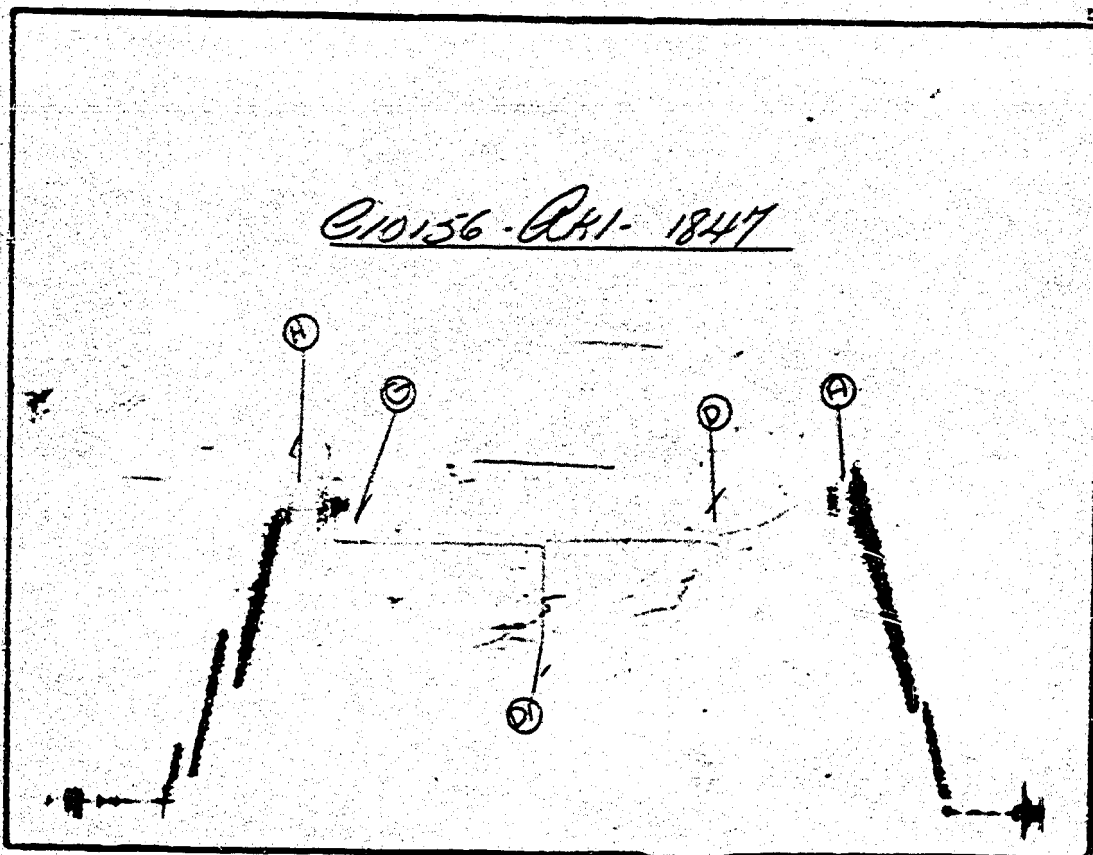


FIELD
REPORT NO.
C-10156

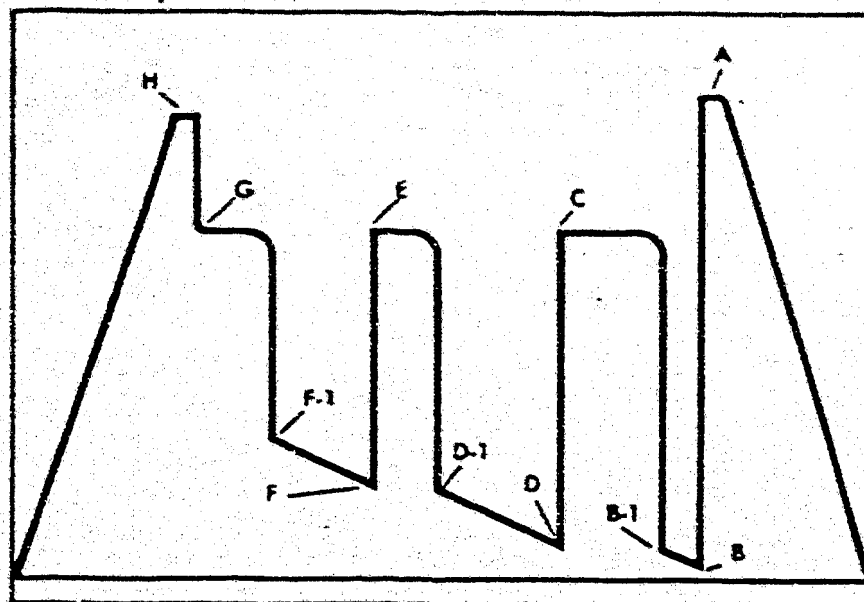
RECORDER NO.
AK1-1847

CAPACITY
2100

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).

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- 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.

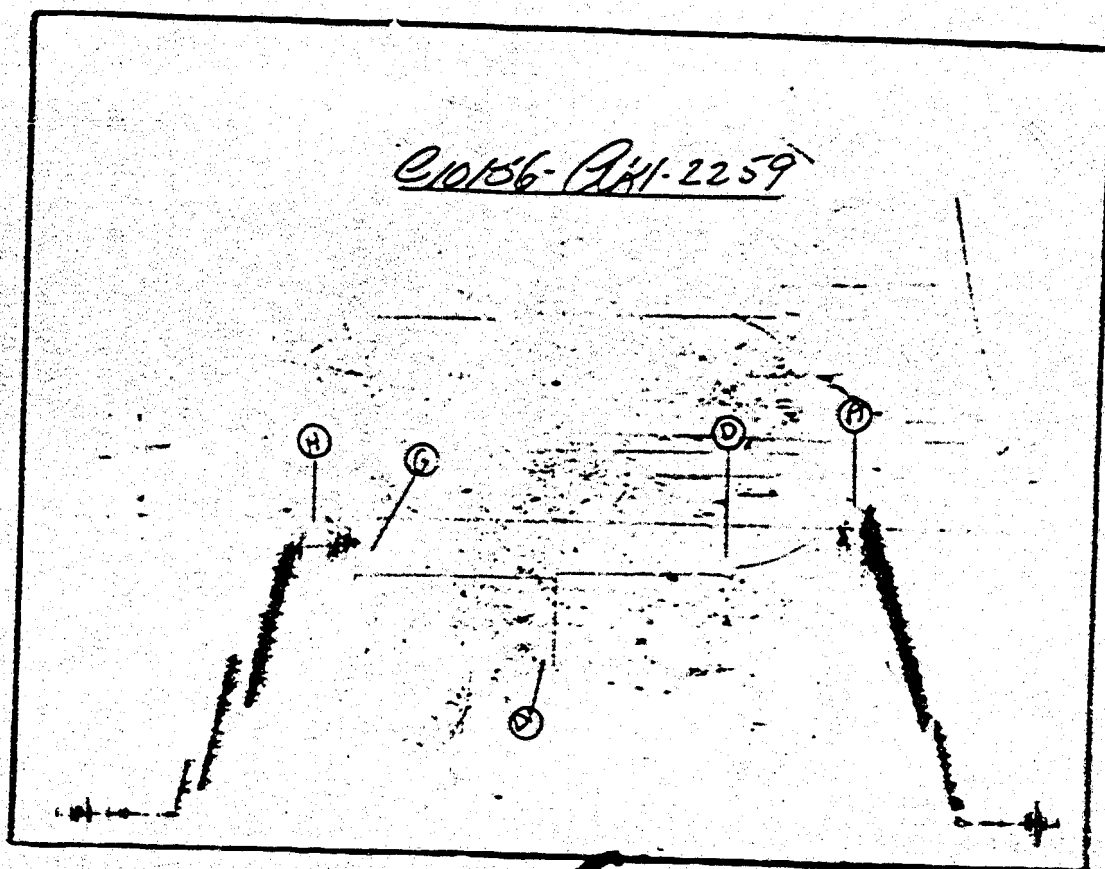


FIELD
REPORT NO.
C-10156

RECORDED NO.
AKI-2259

CAPACITY
2300

REPORTS
REQUESTED
6





Formation Test TECHNICAL REPORT

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[illegible]

PRESSURE DATA

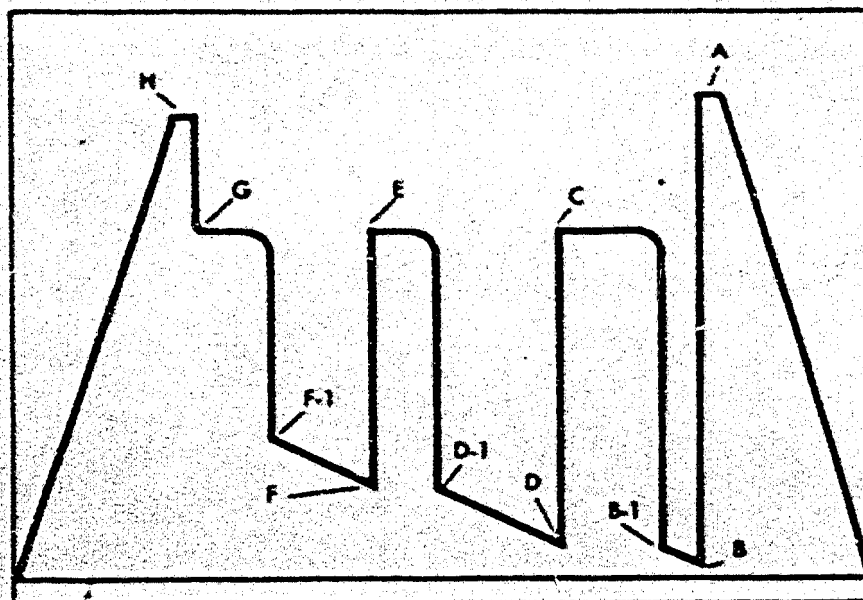
INSTRUMENT No.	AK1-1847	AK1-2259			FIELD REPORT No. C-10157
CAPACITY (gals)	2100	2300			
INSTRUMENT DEPTH	1350	1355			
INSTRUMENT OPENING					
PRESSURE GRADIENT psi/FT.					
WELL TEMP. °F.					
INITIAL HYDROSTATIC	A	692#	693#		
FIRST FLOW	B				
		MISS-RUN			
INITIAL SHUT-IN	C				
SECOND FLOW	D				
SECOND SHUT-IN	E				
THIRD FLOW	F				
FINAL SHUT-IN	G				
FINAL HYDROSTATIC	H	611#	613#		

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).

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- 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.

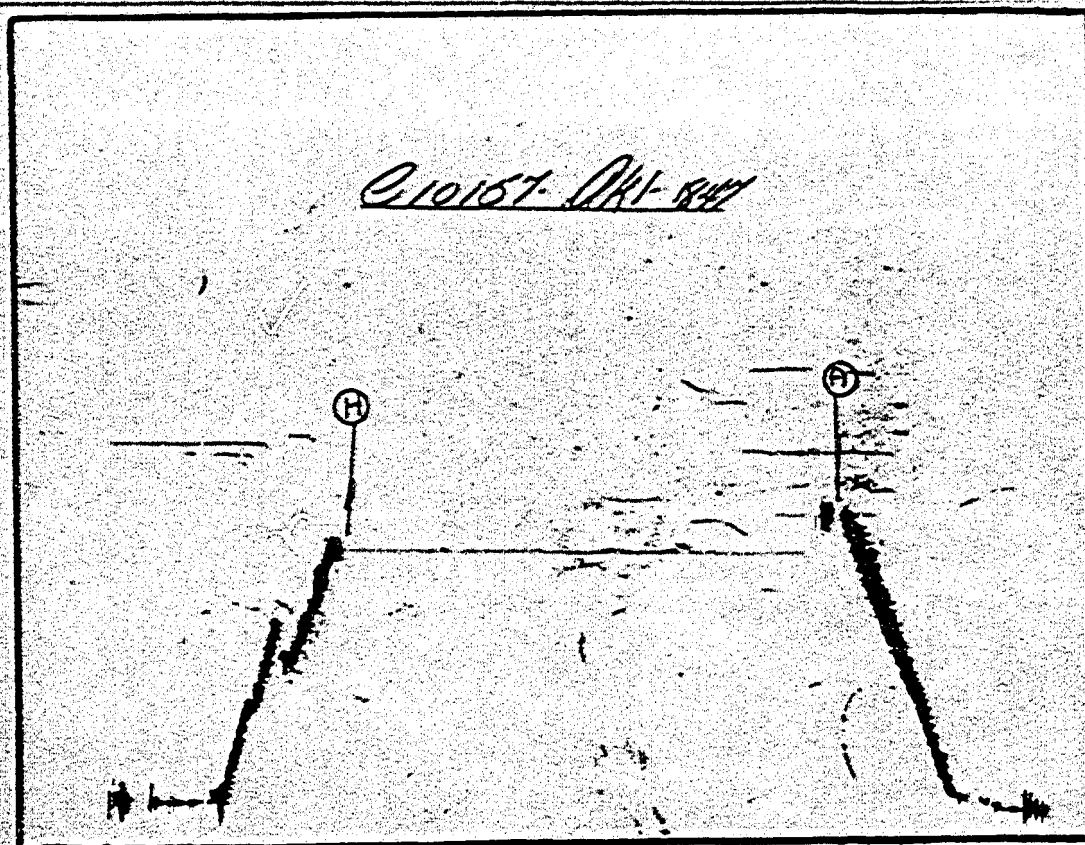


FIELD
REPORT NO.
C-10157

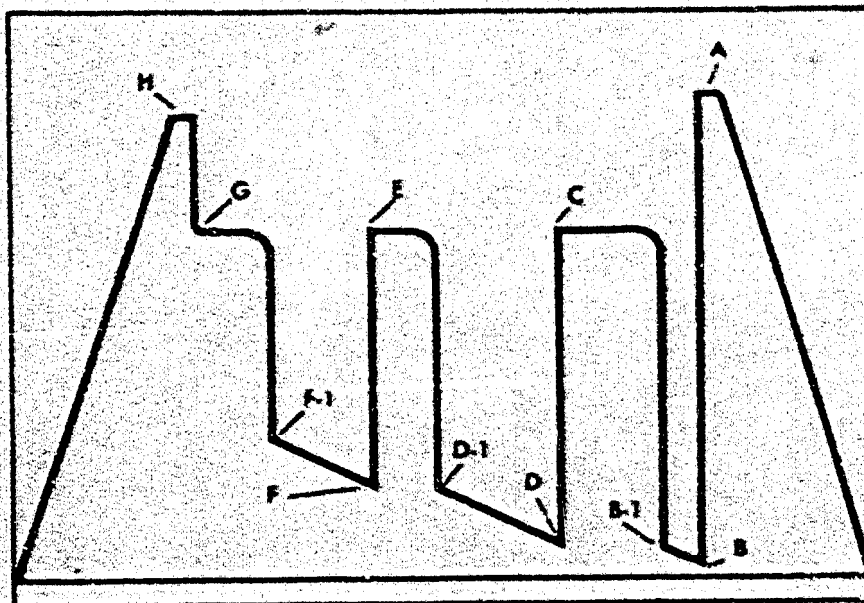
RECORD NO.
AK1-1847

CAPACITY
2100

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

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- 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.

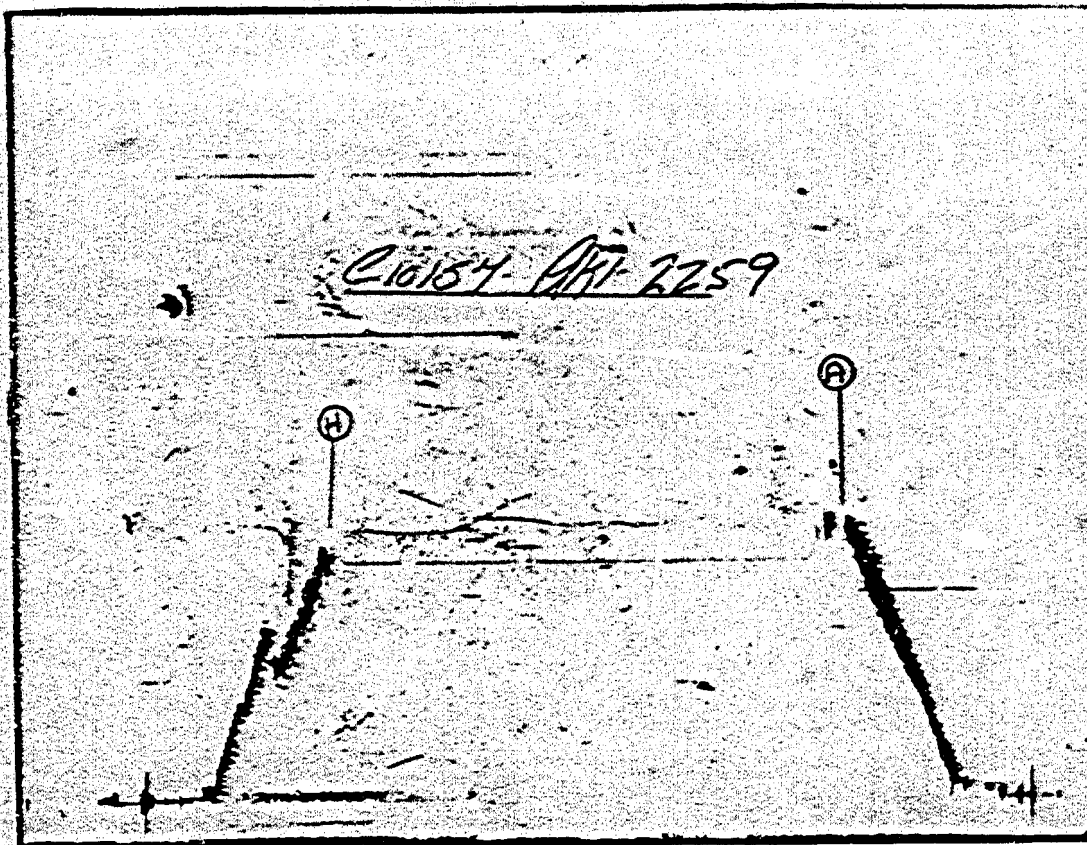


FIELD
REPORT NO.
C-10157

RECORDER NO.
AK1-2259

CAPACITY
2300

REPORTS
REQUESTED
6





Formation Test TECHNICAL REPORT

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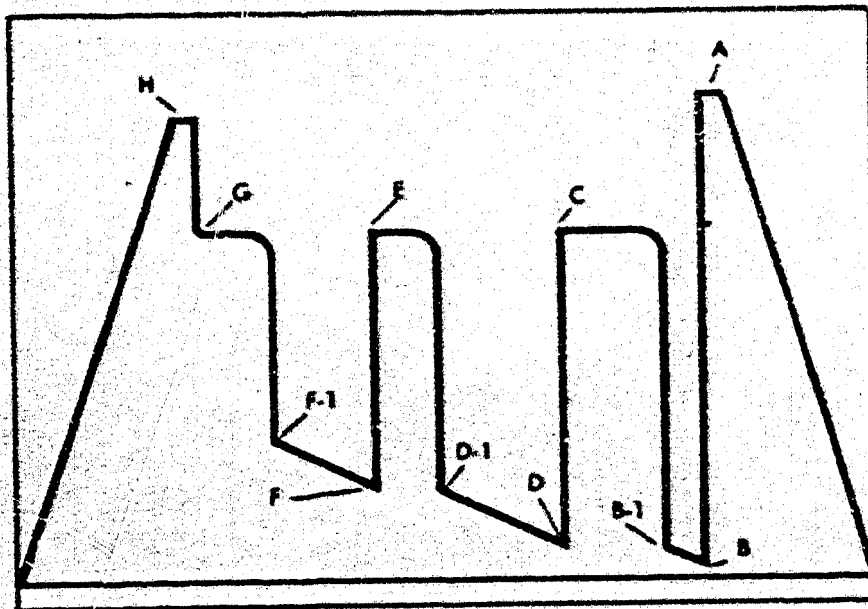
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[illegible]

PRESSURE DATA						TIME DATA	
INSTRUMENT No.		AKI-1847	AKI-2259			FIELD REPORT No. C-10158	
CAPACITY (mg)		2100	2300				
INSTRUMENT DEPTH		1370	1575				
INSTRUMENT OPENING							
PRESSURE GRADIENT psi/ft.							
WELL TEMP °F.							
INITIAL HYDROSTATIC	A	702#	702#			TIME GIVEN	TIME COMPUTED
FIRST FLOW	B	132#	135#			mins	mins
B-1		442#	447#				
INITIAL SHUT-IN	C	586#	588#			mins	mins
SECOND FLOW	D	474#	475#			mins	mins
D-1		592#	594#				
SECOND SHUT-IN	E					mins	mins
THIRD FLOW	F					mins	mins
FINAL SHUT-IN	G	593#	595#			mins	mins
FINAL HYDROSTATIC	H	696#	697#			CLOCK TRAVEL	IN/MIN

[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.

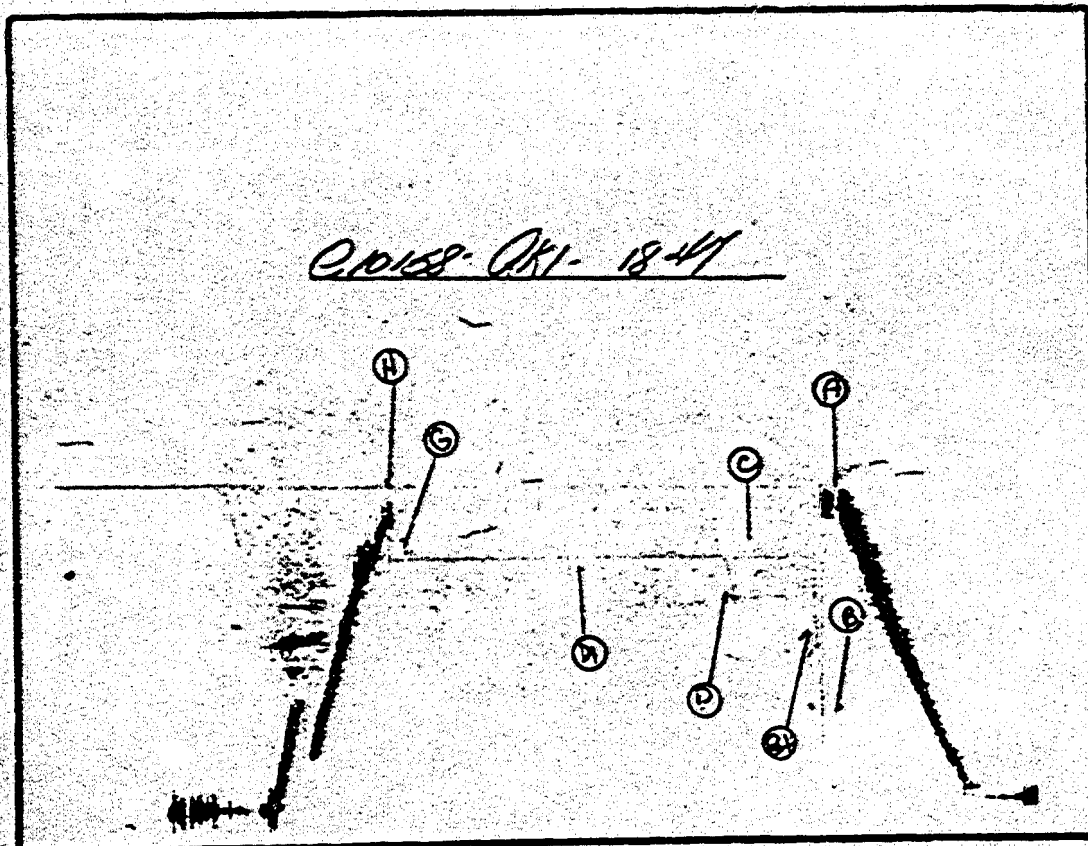


FIELD
REPORT NO.
C-10158

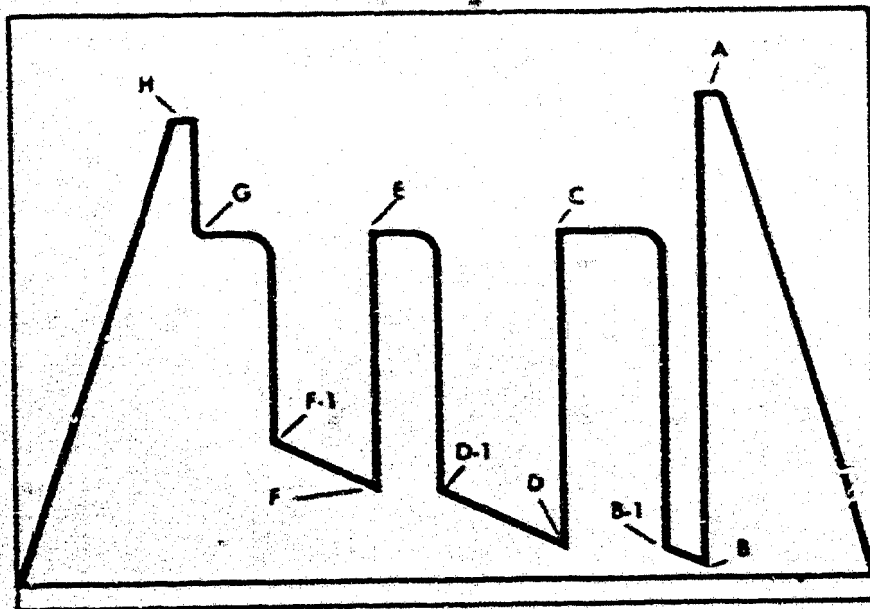
RECORDER NO.
AK1-1847

CAPACITY
2100

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.

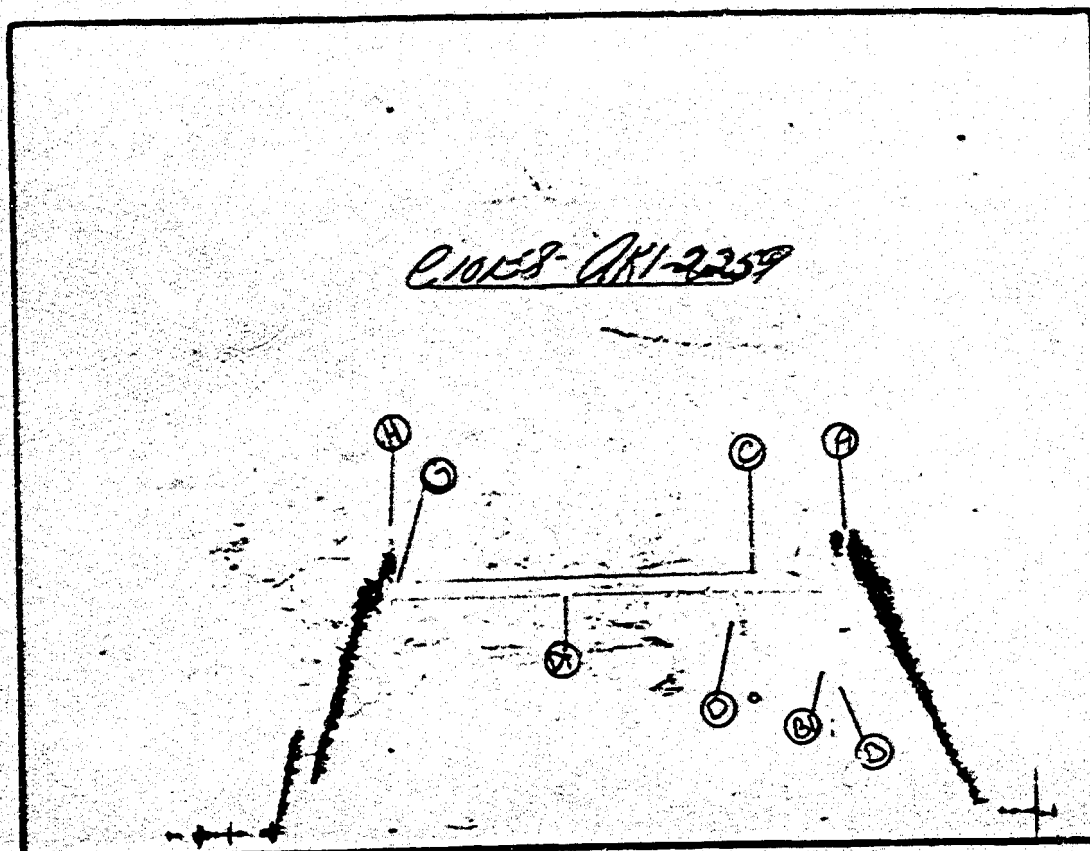
 **JOHNSTON TESTERS LTD.**

FIELD
REPORT NO.
C-10158

RECORDER NO.
AK1-2259

CAPACITY
2300

REPORTS
REQUESTED
6



TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE Sept 11 1967

Year — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands	REMARKS	Time			
Specify actual hours worked	Hrs.						No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Start		Stop	Interval		
Driller															/				
Derrick																			
Floor																			
Floor																			
Floor																			
Motor																			
Mechanic																			
Extra																			
Injuries:																			
Fires:																			
Tour — 8 a.m. to 4 p.m.																			
Driller																			
Derrick																			
Floor																			
Floor																			
Floor																			
Motor																			
Mechanic																			
Extra																			
Injuries:																			
Fires:																			
Tour — 4 p.m. to Midnight																			
Driller																			
Derrick																			
Floor																			
Floor																			
Floor																			
Motor																			
Mechanic																			
Extra																			
Injuries:																			
Fires:																			

Company Time Cont'r Time

Load Barge 8:00
+ Repair Equipment 8:00

Company Time Cont'r Time

Company Time Cont'r Time

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs. Toolpusher

Total Company Time Hrs. Approved by

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE 5-21-19

REMARKS

Time
Start Stop Interval

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	
Driller	A. Carrick 8	1890												
Derrick	E. Ferguson 8													
Floor	J. Hauck 8													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	
Driller	A. Anderson 8													
Derrick	E. Jackson 8													
Floor	B. W. Z. S. P. N. 8													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	
Driller	A. Anderson 4													
Derrick	E. Jackson 4													
Floor	B. W. Z. S. P. N. 4													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														

REMARKS		Start	Stop	Interval
Run in To Test		1200	130	
Testing #3 - Missary.		130	430	
Trip out		430	600	
Run in To Test		600	800	
1330 - 1890				
Company Time				
Cont'r Time				
Testing #4 - D.H.		800	1030	
Pull up - Pick up		1030	1200	
Run in Circulating		1200	130	
Trip Out		130	200	
Log 6 in 5 - Gamma Ray		200	430	
TEST #1 - 1330 - 1890 - 5/30/60				
V.H.I.P. - F.H.B. - Value open - Dying after 7 min				
Reamed 900' D.H. mud - 1.H.S. - 662			1.S. - 551	
F.H.S. - 630			F.S. - 557	
1.F. - 446				
F.F. - 557				
Company Time				
Cont'r Time				
Log 6 in 5 - #2 - F. R.O.F.		400	630	
Run in To Cement		630		
Interval 1700 - 1890 - 19 Rep 21 Cal				
1200 - 1365 - 16 - 1 Cal				
Trip out		800	845	
Laid down pipe		845	1000	
Stand by W.O.C.		1000	1200	
Company Time				
Cont'r Time				

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 5 LOCATION

AREA

DATE Sept 7 1967

REMARKS

Time
Start Stop Interval

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.						No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	8	1755	35	1770										
Derrick	8													
Floor	8													
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
MUD		12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree				MOTOR HOURS	Next Oil Change		
WEIGHT														
VISCOSITY														
GEL														
PUMPS		No. 1	Pressure											
Model		S.P.M.												
Liner Size														
No. 2		Pressure												
Model		S.P.M.												
Liner Size														
W.L.		F.C.	pH.											
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.						No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	8	1770	40	1810										
Derrick	8													
Floor	8													
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
MUD		8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree				MOTOR HOURS	Next Oil Change		
WEIGHT														
VISCOSITY														
GEL														
PUMPS		No. 1	Pressure											
Model		S.P.M.												
Liner Size														
No. 2		Pressure												
Model		S.P.M.												
Liner Size														
W.L.		F.C.	pH.											
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked	Hrs.						No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	4	1810	48	1850										
Derrick	4													
Floor	4													
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
MUD		4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree				MOTOR HOURS	Next Oil Change		
WEIGHT														
VISCOSITY														
GEL														
PUMPS		No. 1	Pressure											
Model		S.P.M.												
Liner Size														
No. 2		Pressure												
Model		S.P.M.												
Liner Size														
W.L.		F.C.	pH.											

Company Time Cont'r Time
Drilling 800 100Company Time Cont'r Time
Drilling 400 800Drilling
Trip Rockbit @ 1848 800 900
MIX GEL 900 1100
Drilling 1848'-1850' 1100 1200Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 5 LOCATION		Area		DATE Sept 6 1967		REMARKS		Time						
								Start	Stop	Interval				
Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands			
Specify actual hours worked		1610	50	1660			No. O.D. I.D. Wgt.	Gals.	Bbls.	Tons	Singles			
Driller	E. Ferrelson													
Derrick	J. Hawick													
Floor														
Floor														
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
MUD		12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree		MOTOR HOURS		Next Oil Change			
WEIGHT														
VISCOSITY														
GEL														
PUMPS		No. 1 Pressure	Liner Size		Size		TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
Model S.P.M.														
No. 2 Pressure		Liner Size		Size		TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip	
Model S.P.M.														
Liner Size														
General														
W.L.		F.C.		pH.										
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands			
Specify actual hours worked		1660	25	1685			No. O.D. I.D. Wgt.	Gals.	Bbls.	Tons	Singles			
Driller	A. Anderson													
Derrick	B. Jackson													
Floor	B. Wetzel													
Floor														
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
MUD		8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree		MOTOR HOURS		Next Oil Change			
WEIGHT														
VISCOSITY														
GEL														
PUMPS		No. 1 Pressure	Liner Size		Size		TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
Model S.P.M.														
No. 2 Pressure		Liner Size		Size		TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip	
Model S.P.M.														
Liner Size														
General														
W.L.		F.C.		pH.										
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands			
Specify actual hours worked		1680	35	1715			No. O.D. I.D. Wgt.	Gals.	Bbls.	Tons	Singles			
Driller	A. Anderson													
Derrick	F. Jackson													
Floor	B. Wetzel													
Floor														
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
MUD		4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree		MOTOR HOURS		Next Oil Change			
WEIGHT														
VISCOSITY														
GEL														
PUMPS		No. 1 Pressure	Liner Size		Size		TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
Model S.P.M.														
No. 2 Pressure		Liner Size		Size		TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip	
Model S.P.M.														
Liner Size														
General														
W.L.		F.C.		pH.										

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 5 LOCATION

AREA

DATE 05 19 67

Tour — Midnight - 8 a.m.
Specify actual hours worked Hrs.

Driller K. Carrigan 8

Derrick E. Jackson 8

Floor J. H. Hark 8

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Fires:

Fires:

Fires:

Fires:

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Fires:

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) DRILL COLLARS No. O.D. I.D. Wgt. FUEL Gals. WATER Bbls. COAL Tons Stands

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

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No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

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No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

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No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

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No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

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No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

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No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars

REMARKS

Time Start Stop Interval

Waiting On Part 1200 500

Waiting On Part 500 400

Waiting On Part 400 500

Waiting On Part 500 700

Waiting On Part 700 800

Waiting On Part 800 900

Waiting On Part 900 1200

Waiting On Part 1200 1300

Waiting On Part 1300 1400

Waiting On Part 1400 1500

Waiting On Part 1500 1600

Waiting On Part 1600 1700

Waiting On Part 1700 1800

Waiting On Part 1800 1900

Waiting On Part 1900 2000

Waiting On Part 2000 2100

Waiting On Part 2100 2200

Waiting On Part 2200 2300

Waiting On Part 2300 2400

Waiting On Part 2400 2500

Waiting On Part 2500 2600

Waiting On Part 2600 2700

Waiting On Part 2700 2800

Waiting On Part 2800 2900

Waiting On Part 2900 3000

Waiting On Part 3000 3100

Waiting On Part 3100 3200

Waiting On Part 3200 3300

Waiting On Part 3300 3400

Waiting On Part 3400 3500

Waiting On Part 3500 3600

Waiting On Part 3600 3700

Waiting On Part 3700 3800

Waiting On Part 3800 3900

Waiting On Part 3900 4000

Waiting On Part 4000 4100

Waiting On Part 4100 4200

Waiting On Part 4200 4300

Waiting On Part 4300 4400

Waiting On Part 4400 4500

Waiting On Part 4500 4600

Waiting On Part 4600 4700

Waiting On Part 4700 4800

Waiting On Part 4800 4900

Waiting On Part 4900 5000

Waiting On Part 5000 5100

Waiting On Part 5100 5200

Waiting On Part 5200 5300

Waiting On Part 5300 5400

Waiting On Part 5400 5500

Waiting On Part 5500 5600

Waiting On Part 5600 5700

Waiting On Part 5700 5800

Waiting On Part 5800 5900

Waiting On Part 5900 6000

Waiting On Part 6000 6100

Waiting On Part 6100 6200

Waiting On Part 6200 6300

Waiting On Part 6300 6400

Waiting On Part 6400 6500

Waiting On Part 6500 6600

Waiting On Part 6600 6700

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs.

Toolpusher

Total Company Time Hrs.

Approved by

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No.		LOCATION		AREA		DATE		19		REMARKS		Start	Stop	Interval
Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.										
Driller	1530 40 1570													
Derrick														
Floor														
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.										
Driller	A. Anderson													
Derrick	E. Jackson													
Floor	B. Wetzel													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		Specify actual hours worked		Hrs.										
Driller	A. Anderson													
Derrick	E. Jackson													
Floor	B. Wetzel													
Floor	R. Campbell													
Floor	E. Jackson													
Motor														
Mechanic	J. Hauck													
Extra														
Injuries:														
Fires:														

Totco Ring on Bit No. _____ J.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE

Sept 5, 1967

Tour — Midnight - 8 a.m.

Specify actual hours worked

Driller

Derrick

Floor

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Fires:

Fires:

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Fires:

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.)

1430 45 1475

No. O.D. I.D. Wgt.

12 4 1/2 18245

R.P.M. Ft. Drilled

60

Hrs. Feet Reamed Hrs. CONDITION

MUD 12 Mn. 2 a.m. 4 a.m. 5 a.m. Additives

WEIGHT

VISCOSITY

GEL

No. 1 Pressure

Model S.P.M.

Liner Size

No. 2 Pressure

Model S.P.M.

Liner Size

W.L. F.C. pH.

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.)

1475 25 1500

No. O.D. I.D. Wgt.

12 4 1/2 18245

R.P.M. Ft. Drilled

60

Hrs. Feet Reamed Hrs. CONDITION

MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives

WEIGHT

VISCOSITY

GEL

No. 1 Pressure

Model S.P.M.

Liner Size

No. 2 Pressure

Model S.P.M.

Liner Size

W.L. F.C. pH.

From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.)

1500 20 1520

No. O.D. I.D. Wgt.

1530 10 1530

R.P.M. Ft. Drilled

60

Hrs. Feet Reamed Hrs. CONDITION

MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives

WEIGHT

VISCOSITY

GEL

No. 1 Pressure

Model S.P.M.

Liner Size

No. 2 Pressure

Model S.P.M.

Liner Size

W.L. F.C. pH.

REMARKS

Drilling

Trip @ 1460

Drilling

Drilling

Drilling

Drilling

Drilling

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Time

Start Stop Interval

1200 500

500 630

630 800

800 900

900 1200

1200 1300

1300 1400

1400 1500

1500 1600

1600 1700

1700 1800

1800 1900

1900 2000

2000 2100

2100 2200

2200 2300

2300 2400

2400 2500

2500 2600

2600 2700

2700 2800

2800 2900

2900 3000

3000 3100

3100 3200

3200 3300

3300 3400

3400 3500

3500 3600

3600 3700

3700 3800

3800 3900

3900 4000

4000 4100

4100 4200

4200 4300

4300 4400

4400 4500

4500 4600

4600 4700

4700 4800

4800 4900

4900 5000

5000 5100

5100 5200

5200 5300

5300 5400

5400 5500

5500 5600

5600 5700

5700 5800

5800 5900

5900 6000

6000 6100

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs.

Total Company Time Hrs.

Toolpusher

Approved by

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 5 LOCATION Judith 0-17 AREA DATE Sept 2 1967

Tour — Midnight - 8 a.m.
Specify actual hours worked Hrs.
Driller R Corrigan 8
Derrick E Ferguson 8
Floor J Hauck 8

Motor
Mechanic
Extra
Injuries:
Fires:

Tour — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.

Driller A Anderson 8
Derrick E Jackson 8
Floor B Wolfzstein 8
Motor
Mechanic
Extra
Injuries:
Fires:

Tour — 4 p.m. to Midnight
Specify actual hours worked Hrs.

Driller A Anderson 4
Derrick E Jackson 4
Floor B Wolfzstein 4
Floor R Corrigan 4
Motor E Ferguson 4
Mechanic J Hauck 4
Extra
Injuries:
Fires:

From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands	
No.	Size	Type	Size	Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL	Next Slip		
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives WEIGHT VISCOSITY GEL PUMPS No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size General W.L. F.C. pH.																					
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives WEIGHT VISCOSITY GEL PUMPS No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size General W.L. F.C. pH.																					
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives WEIGHT VISCOSITY GEL PUMPS No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size General W.L. F.C. pH.																					

REMARKS	Time		
	Start	Stop	Interval
Remaining 1335 - 1380	1200	400	
Trip out Circulating	400	415	
Trip out	415	500	
Prepare Packer and	500		
RUN IN		700	
TESTING	700	800	
Interval 1320 - 1382			
Bottom Hole Test			
Company Time	Cont'r Time		
Testing	800	1000	
Pulling Packers	1000	1200	
Waiting On Orders	1200	200	
Run in to Drill	200	400	
Kelly - No. 10 on Packer	1400	945	
F.A.B. - 1st 4 1/2 in.	F.H.S.	871	
Dead in 15 Min.	I.F.	52	
Reamed 10' Mud.	F.F.	105	
I.S.I.			
F.S.I.	635		
Company Time	Cont'r Time		
Drilling	400	800	
Drilling	800	1200	
Company Time	Cont'r Time		

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack
B.O.P. Test-Operated Time Results

Total Contractor Time Hrs. Toolpusher
Total Company Time Hrs. Approved by

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE

REMARKS

Time

Tour — Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller

Derrick

Floor

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Fires:

Fires:

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From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
1200	30	1230			No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change WEIGHT 1200 3/4 1 2 3 4 5 VISCOSITY GEL PUMPS No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size W.L. F.C. pH.												

Drilling	1200	300
Trip out @ 1220	300	330
Deviation Survey	330	400
Trip in	400	430
Drilling	430	800

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked Hrs.

Driller

Derrick

Floor

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Fires:

Fires:

Fires:

Fires:

Fires:

Fires:

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Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
1230	60	1290			No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change WEIGHT 47 1 2 3 4 5 VISCOSITY 55 GEL PUMPS No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size W.L. F.C. pH.												

Drilling	800	900
Clearing mud tank and mixing Gal	900	1000
800 potshots		1000
Drilling	1000	1400

Tour — 4 p.m. to Midnight

Specify actual hours worked Hrs.

Driller

Derrick

Floor

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Fires:

Fires:

Fires:

Fires:

Fires:

Fires:

Fires:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
1290	20	1310			No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change WEIGHT 10 1 2 3 4 5 VISCOSITY GEL PUMPS No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size No. 1 Pressure S.P.M. Liner Size No. 2 Pressure S.P.M. Liner Size W.L. F.C. pH.												

Trip for B.I. at 1210' 400	400	800
Footage on B.I. 80' 400	800	880
1210' to 1290' 80' 400	880	960
Drilling	960	1000
Service Rtg	1000	1015
Drilling	1015	1200

Totco Ring on Bit No. J.P. Caliper Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs. Toolpusher

Total Company Time Hrs. Approved by

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE

Jul 30 1967

REMARKS

Time
Start Stop Interval

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	R Corridal	1075				1110								
Derrick	E Ferguson													
Floor	T Hauck													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	H Anderson	1100	30			1160								
Derrick	B WICKS													
Floor	L JACKSON													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked		No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Driller	R Corridal	1160	30			1190								
Derrick	E Ferguson													
Floor	T Hauck													
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														

Drilling

1200 800

Drilling

800 1100

Trip For Bit 1150

1100

Footage on Bit 105'

1075-1200 105'

1200

Harris on Bit 135' hours

1200

Drilling

1200 400

Drilling

400 800

Drilling

800 1200

Totco Ring on Bit No. _____ D.P. Caliper Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE 7/29/67

REMARKS

Time

Time — Midnight - 8 a.m.
Specify actual hours worked Hrs.

Driller *R. Curridul* 8
Derrick *E. Ferguson* 8
Floor *J. Hauck* 8

From 910 Footage 45 To 955 Hrs. on Bottom Wt. Drill String (1000 lbs.)

DRILL COLLARS No. O.D. I.D. Wgt.

FUEL Gals. WATER Bbls. COAL Tons

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Up On Kelly

TOTAL

Slip Feet or Cut Feet Left on Spool Next Slip

Drilling
Trip for B.T. @ 930'
Drilling

1200 400
400 500
500 800

Floor
Floor
Motor
Mechanic
Extra

MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1 Pressure S.P.M. Model

Liner Size

No. 2 Pressure S.P.M. Model

Liner Size

General

Injuries:
Fires:

PUMPS

W.L. F.C.

Time — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.

From 955 Footage 45 To 1000 Hrs. on Bottom Wt. Drill String (1000 lbs.)

DRILL COLLARS No. O.D. I.D. Wgt.

FUEL Gals. WATER Bbls. COAL Tons

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Up On Kelly

TOTAL

Slip Feet or Cut Feet Left on Spool Next Slip

Driller *A. Anderson* 8
Derrick *E. Ferguson* 8
Floor *B. Wetzel* 8
Floor
Floor
Motor
Mechanic
Extra

MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1 Pressure S.P.M. Model

Liner Size

No. 2 Pressure S.P.M. Model

Liner Size

General

Injuries:
Fires:

PUMPS

W.L. F.C. pH.

Time — 4 p.m. to Midnight
Specify actual hours worked Hrs.

From 1000 Footage 45 To 1045 Hrs. on Bottom Wt. Drill String (1000 lbs.)

DRILL COLLARS No. O.D. I.D. Wgt.

FUEL Gals. WATER Bbls. COAL Tons

Stands

Singles

D. Collars

Other Ft.

C.B. Ft.

Subs. Ft.

Ft. Up On Kelly

TOTAL

Slip Feet or Cut Feet Left on Spool Next Slip

Driller *A. Anderson* 4
Derrick *E. Ferguson* 4
Floor *B. Wetzel* 4
Floor *R. Curridul* 4
Motor *E. Ferguson* 4
Mechanic *J. Hauck* 4

MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change

WEIGHT

VISCOSITY

GEL

No. 1 Pressure S.P.M. Model

Liner Size

No. 2 Pressure S.P.M. Model

Liner Size

General

Extra
Injuries:
Fires:

PUMPS

W.L. F.C. pH.

Company Time Cont'r Time

Carrying Rig
Drilling

800 830
830 900

Company Time Cont'r Time

Drilling

400 630
Trip for B.T. at 1045'
Footage on B.T. 115'
730' to 1045' 115'
Have on B.T. 132 hours

700

Company Time Cont'r Time

Testing Luger
Running in
Drilling

700 800
800 900
900 930
930 1200

Totco Ring on Bit No. D.P. Caliper Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs. Toolpusher

Total Company Time Hrs. Approved by

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No.	LOCATION		AREA	DATE	TIME	REMARKS	Start	Stop	Interval
	Tor - Midnight - 8 a.m.								
	Specify actual hours worked	Hrs.							
Driller	E. Ferguson	8							
Derrick	J. Hancock	7							
Floor									
Floor									
Floor									
Motor									
Mechanic									
Extra									
Injuries:									
Fires:									
	Tor - 8 a.m. to 4 p.m.								
	Specify actual hours worked	Hrs.							
Driller	A. Anderson	4							
Derrick	E. Jackson	4							
Floor	B. Weitzel	4							
Floor									
Floor									
Motor									
Mechanic									
Extra									
Injuries:									
Fires:									
	Tor - 4 p.m. to Midnight								
	Specify actual hours worked	Hrs.							
Driller	A. Anderson	4							
Derrick	E. Jackson	4							
Floor	B. Weitzel	4							
Floor									
Floor	R. Corliss	4							
Motor	E. Ferguson	4							
Mechanic	J. Hancock	4							
Extra									
Injuries:									
Fires:									

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

R.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. LOCATION

AREA

DATE Aug 27 1967

REMARKS

Time
Start Stop Interval

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	R. Carrick	420	100	520										Drilling
Derrick	E. Ferguson													
Floor	J. Hauck													
Floor														
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	A. Anderson	520	100	620										Drilling
Derrick	B. Wetzel													
Floor	E. Jackson													
Floor														
Floor														
Floor														
Motor														
Mechanic														
Extra														
Injuries:														
Fires:														
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	
Driller	R. Carrick	620	40	660										Drilling
Derrick	E. Ferguson													
Floor	J. Hauck													
Floor	A. Anderson													
Floor	B. Wetzel													
Motor	E. Jackson													
Mechanic														
Extra														
Injuries:														
Fires:														

Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack

B.O.P. Test-Operated Time Results

Total Contractor Time Hrs.

Toolpusher

Total Company Time Hrs.

Approved by

DAILY DRILLING REPORT

BOARD DAY WORK RECORD
NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No.	LOCATION	AREA	DATE	REMARKS	Time		
					Start	Stop	Interval
Tear — Midnight - 3 a.m.							
Specify actual hours worked							
Driller	R Corridal						
Derrick	E Ferguson						
Floor	J Hauck						
Floor							
Floor							
Motor							
Mechanic							
Extra							
Injuries:							
Fires:							
Tear — 3 a.m. to 4 p.m.							
Specify actual hours worked							
Driller	A Anderson						
Derrick	B Watson						
Floor							
Floor							
Motor							
Mechanic							
Extra							
Injuries:							
Fires:							
Tear — 4 p.m. to Midnight							
Specify actual hours worked							
Driller	A Anderson						
Derrick	B Watson						
Floor	J Hauck						
Floor	R Corridal						
Motor	E Ferguson						
Mechanic	J Hauck						
Extra	A Jackson						
Injuries:							
Fires:							

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD
NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 5 LOCATION

AREA

DATE Aug 24 1967

Tour — Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller R. Corrigan 8

Derrick E. Ferguson 8

Floor J. Hauck 8

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked Hrs.

Driller A. H. Johnson 8

Derrick B. H. Johnson 8

Floor

Floor

Motor

Mechanic

Extra

Injuries:

Fires:

Tour — 4 p.m. to Midnight

Specify actual hours worked Hrs.

Driller A. H. Johnson 4

Derrick B. H. Johnson 4

Floor R. Corrigan 4

Floor E. Ferguson 4

Motor J. Hauck 4

Mechanic

Extra

Injuries:

Fires:

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands
No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons						
0		30										
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change												
WEIGHT VISCOSITY GEL												
PUMPS No. 1 Pressure S.P.M. No. 2 Pressure S.P.M. General												
W.L. F.C. pH.												
30	70	100										
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change												
WEIGHT VISCOSITY GEL												
PUMPS No. 1 Pressure S.P.M. No. 2 Pressure S.P.M. General												
W.L. F.C. pH.												
100	50	150										
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change												
WEIGHT VISCOSITY GEL												
PUMPS No. 1 Pressure S.P.M. No. 2 Pressure S.P.M. General												
W.L. F.C. pH.												

REMARKS	Time		
	Start	Stop	Interval
Rigging up	1200		130
Repair Valve (sat/ty)	130		330
Unload Gel (NT)	330		500
Spud in	500		
Drilling	500		800
Mix Gel @ 20'			
Cleaning cement out pump	800		200
Drilling	300		400
Drilling	400		800
Drilling	800		900
Trip @ 160'	900		930
Drilling	930		1200

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

