

Law 12-27-34W
WF

15-081-21371

ORIGINAL



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Prepared For: **Helmerich & Payne**

1579 E 21st
Tulsa, Ok
74114

ATTN: H&P

12-27-34 Haskell, Ks

Government B-5

Start Date: 2001.02.16 @ 06:50:00

End Date: 2001.02.16 @ 18:40:00

Job Ticket #: 13670 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Helmerich & Payne

Government B-5

12-27-34 Haskell, Ks

DST #: 1

morrow

2001.02.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

ORIGINAL

Heimerich & Payne

1579 E 21st
Tulsa, Ok
74114
ATTN: H&P

Government B-5

12-27-34 Haskell, Ks

Job Ticket: 13670

DST#: 1

Test Start: 2001.02.16 @ 06:50:00

GENERAL INFORMATION:

Formation: morrow

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:16:23

Time Test Ended: 18:40:00

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Interval: 5028.00 ft (KB) To 5130.00 ft (KB) (TVD)

Total Depth: 5130.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2966.00 ft (KB)

2955.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 2346

Inside

Press@RunDepth: 55.26 psig @ 5029.00 ft (KB)

Start Date: 2001.02.16

End Date:

2001.02.16

Capacity: 7000.00 psig

Last Calib.:

1899.12.30

Start Time:

06:46:28

End Time:

18:30:23

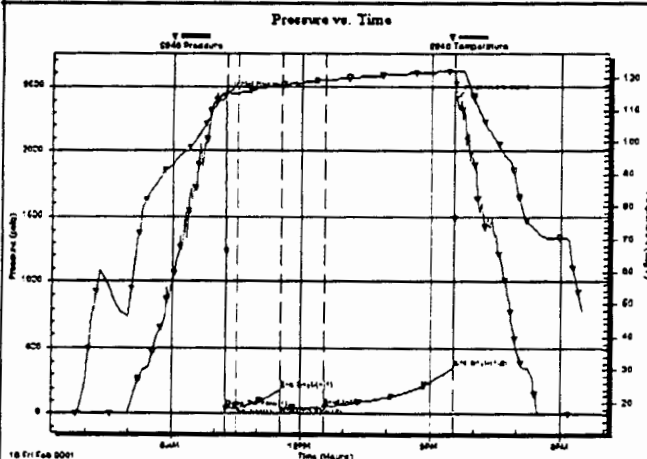
Time On Btm:

2001.02.16 @ 10:15:23

Time Off Btm:

2001.02.16 @ 15:35:23

TEST COMMENT: 4,000ml drill mud in sampler



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
209	2430.57	115.41	Initial Hydro-static
210	41.10	115.41	Open To Flow (1)
225	44.94	115.26	Shut-in(1)
285	184.93	117.78	End Shut-in(1)
286	45.08	117.82	Open To Flow (2)
346	55.26	119.39	Shut-in(2)
526	354.12	122.28	End Shut-in(2)
529	2412.78	122.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	drill mud w/ bit spots	0.15

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Helmerich & Payne

Government B-5

1579 E 21st

12-27-34 Haskell, Ks

Tulsa, Ok

Job Ticket: 13670

DST#: 1

74114

Test Start: 2001.02.16 @ 06:50:00

ATTN: H&P

Tool Information

Drill Pipe:	Length: 4353.00 ft	Diameter: 3.80 inches	Volume: 61.06 bbl	Tool Weight:	3000.00 lb
Drill Collar:	Length: 679.00 ft	Diameter: 2.25 inches	Volume: 3.34 bbl	Weight set on Packer:	30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	85000.00 lb
Drill Pipe Above KB:	34.00 ft			Tool Chased	0.00 ft
Depth to Top Packer:	5023.00 ft			String Weight: Initial	74000.00 lb
Depth to Bottom Packer:	ft			Final	74000.00 lb
Interval between Packers:	ft				
Tool Length:	132.00 ft				
Number of Packers:	2	Diameter:	6.75 Inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4999.00	
S.I. Tool	5.00			5004.00	
Sampler	3.00			5007.00	
HMV	5.00			5012.00	
Jars	5.00			5017.00	
Safety Joint	2.00			5019.00	
Packer	4.00			5023.00	25.00 Bottom Of Top Packer
Packer	5.00			5028.00	
Stubb	1.00			5029.00	
Recorder	0.00	2346	Inside	5029.00	
Anchor	31.00	24174		5060.00	
C.O. Sub	1.00			5061.00	
Extension Sub	63.00			5124.00	
C.O. Sub	1.00			5125.00	
Recorder	0.00	11058	Outside	5125.00	
Bullnose	5.00			5130.00	107.00 Bottom Packers & Anchor
Total Tool Length:		132.00			

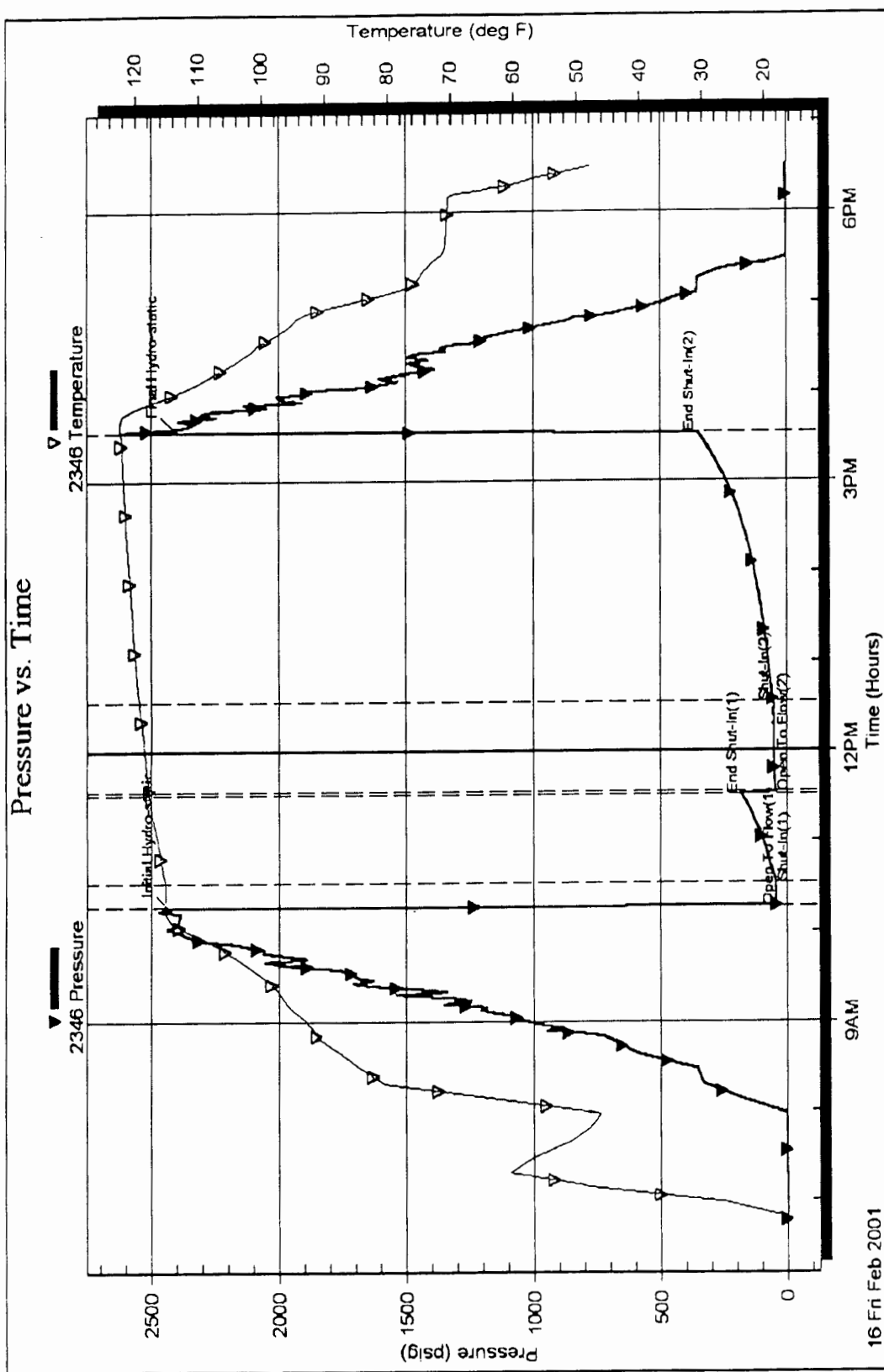
12-27-34 Haskell, KS

Hehrich & Payne

Inside

Senal #: 2346

Pressure vs. Time



Ref. No. 13670

Tridite Testing, Inc

Printed: 2001 02:19 @ 09:53:51 Page 4

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Jack Keeling
IN# 13670

Test Ticket

Well Name & No. <u>Government 13-5</u>	Test No. <u>#1</u>	Date <u>2-16-01</u>
Company <u>Helmerich & Payne</u>	Zone Tested <u>morrow</u>	
Address <u>1579 E 21st Tulsa, OK 74114</u>	Elevation <u>2966'</u> KB <u>2955'</u> GL	
Co. Rep / Geo. <u>Wes Hansen</u>	Cont. <u>Cheyenne #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>12</u> Twp. <u>27s</u> Rge. <u>34w</u>	Co. <u>Haskell</u> State <u>Ks</u>	
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5028</u> <u>5130</u>	Initial Str Wt./Lbs. <u>74,000</u>	Unseated Str Wt./Lbs. <u>74,000</u>
Anchor Length <u>102</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>85,000</u>
Top Packer Depth <u>5023</u>	Tool Weight <u>3,000</u>	
Bottom Packer Depth <u>5028</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>5130</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>679' (H-90)</u>
Mud Wt. <u>7.2</u> LCM <u>#4</u> Vis. <u>49</u> WL <u>8.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4416'</u>
Blow Description <u>1/2" @ open blow throughout</u>		
<u>No return</u>		
<u>Weak surface blow died in 5 min.</u>		
<u>No return</u>		

Recovery — Total Feet <u>30'</u>	GIP <u> </u>	Ft. In DC <u>30'</u>	Ft. In DP <u> </u>
Rec. <u>30'</u>	Feet Of <u>Drilling fluid w/ 1/2" gas</u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
BHT <u>122'</u>	°F Gravity <u> </u>	*API D @ <u> </u>	*F Corrected Gravity <u> </u>
RW <u> </u>	°F Chlorides <u> </u>	ppm Recovery <u> </u>	Chlorides <u>1400</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1430</u>	Alpine PSI Recorder No. <u>2346</u>	T-On Location <u>03:30 a.m.</u>
(B) First Initial Flow Pressure	<u>41</u>	PSI (depth) <u>5029</u>	T-Started <u>06:50 a.m.</u>
(C) First Final Flow Pressure	<u>44</u>	PSI Recorder No. <u>11058</u>	T-Open <u>10:15 a.m.</u>
(D) Initial Shut-In Pressure	<u>184</u>	PSI (depth) <u>5125'</u>	T-Pulled <u>15:30 p.m.</u>
(E) Second Initial Flow Pressure	<u>45</u>	PSI Recorder No. <u> </u>	T-Out <u>18:40 p.m.</u>
(F) Second Final Flow Pressure	<u>55</u>	PSI (depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>354</u>	PSI Initial Opening <u>15</u>	Test <u>X</u>
(Q) Final Hydrostatic Mud	<u>2412</u>	PSI Initial Shut-in <u>160</u>	Jars <u>X</u>
		Final Flow <u>60</u>	Safety Joint <u>X</u>
		Final Shut-In <u>180</u>	Straddle <u> </u>
			Circ. Sub <u>X</u> <u>N/K</u>
			Sampler <u>X</u>
			Extra Packer <u> </u>
			Elec. Rec. <u>X</u>
			Mileage <u>70 / way</u>
			Other <u> </u>
			TOTAL PRICE \$ <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Wesley Hansen
Our Representative SKM Bnd

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13670 Date 2-16-01
Company Name Helmerich & Payne
Lease Government B-5 Test No. #1
County Haskell, Ks Sec. 12 Twp. 27 Rng. 34

SAMPLER RECOVERY

Gas _____ ML
Oil Spots _____ ML
Mud 4,000 _____ ML
Water _____ ML
Other _____ ML
Pressure 260 PSI _____ PSI
Total 4,000 ± Drilling Mud _____ ML

SAMPLER ANALYSIS

Resistivity 5.98 ohms @ 50° F
Chlorides 1400 _____ ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 1400 _____ ppm.
Resistivity 5.98 ohms @ 50° F
Viscosity 49 _____
Mud Weight 9.2 _____
Filtrate 8.4 _____
Other LCM #4 _____

PIPE RECOVERY

TOP
Resistivity 5.98 ohms @ 50° F
Chlorides 1400 _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.