

DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

177 W. Limestone Road
Phillipsburg, Ks. 67661

ATTN: Randy Killian

5-10s-21w-Graham

Millen #1 *Miller #1*

Start Date: 2005.08.06 @ 03:05:24

End Date: 2005.08.06 @ 09:47:24

Job Ticket #: 22068 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources

177 W. Limestone Road
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ATTN: Randy Killian

Millen #1

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Job Ticket: 22068

DST#: 1

Test Start: 2005.08.06 @ 03:05:24

GENERAL INFORMATION:

Formation: **LKC-"A-C"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:04:54

Time Test Ended: 09:47:24

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **3486.00 ft (KB) To 3585.00 ft (KB) (TVD)**

Total Depth: **3585.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **2308.00 ft (KB)**

2303.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **73.85 psig @ 3489.00 ft (KB)**

Start Date: **2005.08.06**

End Date:

2005.08.06

Start Time: **03:05:26**

End Time:

09:47:24

Capacity: **7000.00 psig**

Last Calib.: **2005.08.06**

Time On Btm: **2005.08.06 @ 05:04:24**

Time Off Btm: **2005.08.06 @ 08:08:24**

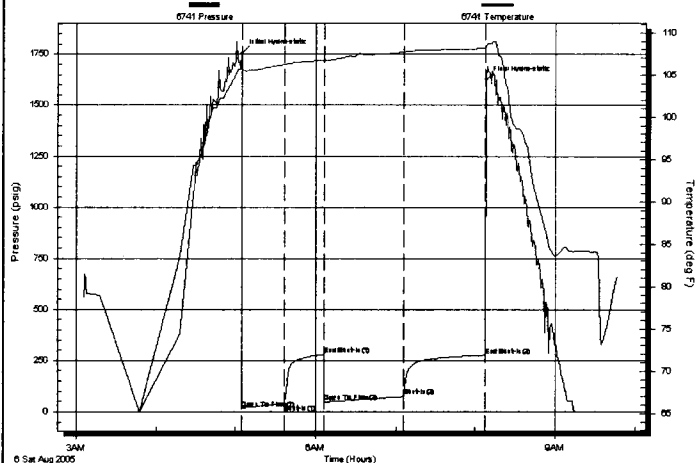
TEST COMMENT: **IFP-Weak Blow , Built to 3"**

ISI-Dead

FFP-Weak Blow , Built to 1-1/2"

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.48	105.90	Initial Hydro-static
1	14.26	105.53	Open To Flow (1)
33	39.57	106.21	Shut-In(1)
62	278.59	106.71	End Shut-In(1)
62	45.37	106.64	Open To Flow (2)
122	73.85	107.71	Shut-In(2)
184	275.70	108.14	End Shut-In(2)
184	1626.39	108.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TOOL DIAGRAM

Pioneer Resources

177 W. Limestone Road
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ATTN: Randy Killian

Millen #1

5-10s-21w-Graham

Job Ticket: 22068

DST#: 1

Test Start: 2005.08.06 @ 03:05:24

Tool Information

Drill Pipe:	Length:	3353.00 ft	Diameter:	3.80 inches	Volume:	47.03 bbl	Tool Weight:	2200.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb		
Drill Collar:	Length:	122.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:	40000.00 lb		
						Total Volume:	47.63 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	10.00 ft								String Weight: Initial	38000.00 lb
Depth to Top Packer:	3486.00 ft								Final	38000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	99.00 ft									
Tool Length:	120.00 ft									
Number of Packers:	2		Diameter:	6.75 inches						
Tool Comments:										

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3466.00	
Shut In Tool	5.00			3471.00	
Hydraulic tool	5.00			3476.00	
Packer	5.00			3481.00	21.00 Bottom Of Top Packer
Packer	5.00			3486.00	
Stubb	1.00			3487.00	
Perforations	2.00			3489.00	
Recorder	0.00	6741	Inside	3489.00	
Change Over Sub	1.00			3490.00	
Blank Spacing	63.00			3553.00	
Change Over Sub	1.00			3554.00	
Perforations	28.00			3582.00	
Recorder	0.00	13221	Outside	3582.00	
Bullnose	3.00			3585.00	99.00 Bottom Packers & Anchor

Total Tool Length: 120.00



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FLUID SUMMARY

Pioneer Resources

Millen #1

177 W. Limestone Road
Phillipsburg, Ks. 67661

5-10s-21w-Graham

Job Ticket: 22068

DST#: 1

ATTN: Randy Killian

Test Start: 2005.08.06 @ 03:05:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

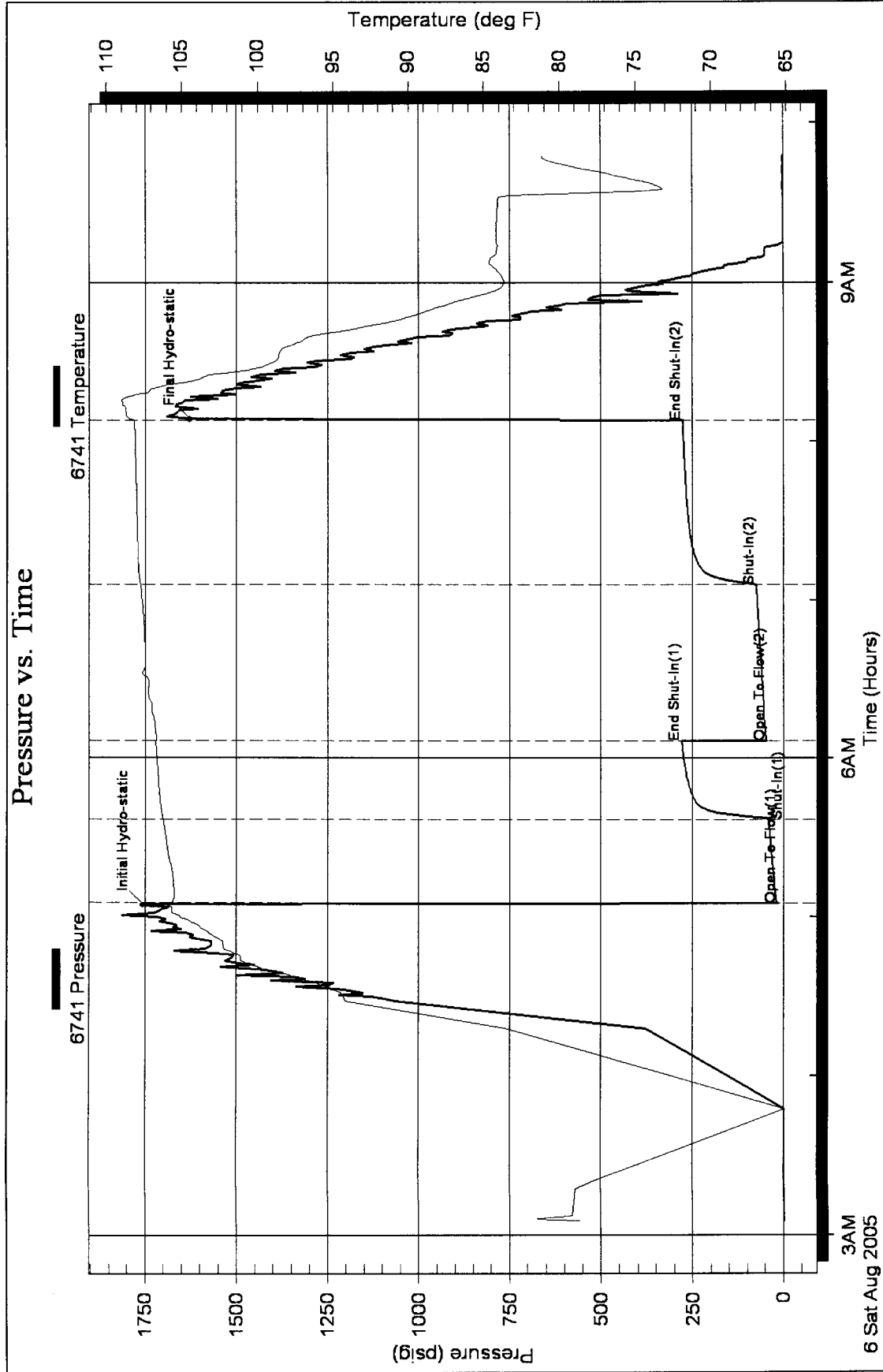
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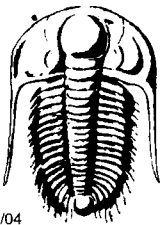
Pioneer Resources

5-10s-21w -Graham

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 22068

7772

9/04

Test Ticket

Well Name & No. <u>Millen #1</u>	Test No. <u>1</u>	Date <u>8-5-05</u>
Company <u>Pioneer Resources</u>	Zone Tested <u>LKC A-C</u>	
Address <u>177 W. Limestone Road, Phillipsburg, KS 67661</u>	Elevation <u>2308</u>	KB <u>2303</u> GL
Co. Rep / Geo. <u>Randy Killian</u>	Cont. <u>WW Drilling</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>5</u> Twp. <u>10</u> Rge. <u>21</u> Co. <u>Graham</u> State <u>Ks</u>		
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>3486 - 3585</u>	Initial Str Wt./Lbs. <u>38,000</u>	Unseated Str Wt./Lbs. <u>38,000</u>
Anchor Length <u>99'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>40,000</u>
Top Packer Depth <u>3481</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3486</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>3585</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>122</u>
Mud Wt. <u>9.1</u> LCM <u>Tr</u> Vis. <u>45</u> WL <u>8.4</u>	Drill Pipe Size <u>4 1/2 X 1 1/4</u>	Ft. Run <u>3353</u>
Blow Description <u>IFP - Weak Blow, Built to 3"</u>		
<u>ISI - Dead</u>		
<u>FFP - Weak Blow, Built to 1 1/2"</u>		
<u>FSI - Dead</u>		

Recovery - Total Feet <u>120</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>120</u>	Feet of <u>Mud</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT _____	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____	@ _____	°F Chlorides _____	ppm Recovery _____
		Chlorides <u>2,000</u>	ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1755</u> PSI	Alpine	Recorder No. <u>6741</u>	Test <u>✓</u> <u>950</u>
(B) First Initial Flow Pressure	<u>14</u> PSI		(depth) <u>3490</u>	Jars _____
(C) First Final Flow Pressure	<u>40</u> PSI		Recorder No. <u>13221</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>279</u> PSI		(depth) <u>3582</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>45</u> PSI		Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>74</u> PSI		(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>276</u> PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1626</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer _____
		Final Flow	<u>60</u>	Ruined Packer _____
		Final Shut-In	<u>60</u>	Mileage <u>88</u> <u>88</u>
		T-On Location	<u>21:00</u>	Sub Total: <u>1038</u>
		T-Started	<u>3:05</u>	Std. By <u>5hrs</u> <u>120</u>
		T-Open	<u>5:08</u>	Other <u>60</u>
		T-Pulled	<u>8:08</u>	Total: <u>1218</u>
		T-Out	<u>9:50</u>	

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Approved By _____

Our Representative J. Mc Leman

CHART PAGE
This is a photocopy of the actual AK-1 recorder chart.

Pioneer Resources
Millen #1
DST #1

