

### DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Rodger D.Wells

**12 14S 32W Logan KS**

**Dirks # 1**

Start Date: 2007.02.07 @ 15:59:20

End Date: 2007.02.08 @ 02:38:50

Job Ticket #: 27527                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Resources  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Rodger D.Wells

**Dirks # 1**  
**12 14S 32W Logan KS**  
Job Ticket: 27527      **DST#: 1**  
Test Start: 2007.02.07 @ 15:59:20

## GENERAL INFORMATION:

Formation: **L.Kc.-K to Marm.**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 20:11:20  
Time Test Ended: 02:38:50

Test Type: **Conventional Bottom Hole**  
Tester: **John Schmidt**  
Unit No: **31**

Interval: **4165.00 ft (KB) To 4315.00 ft (KB) (TVD)**  
Total Depth: **4315.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

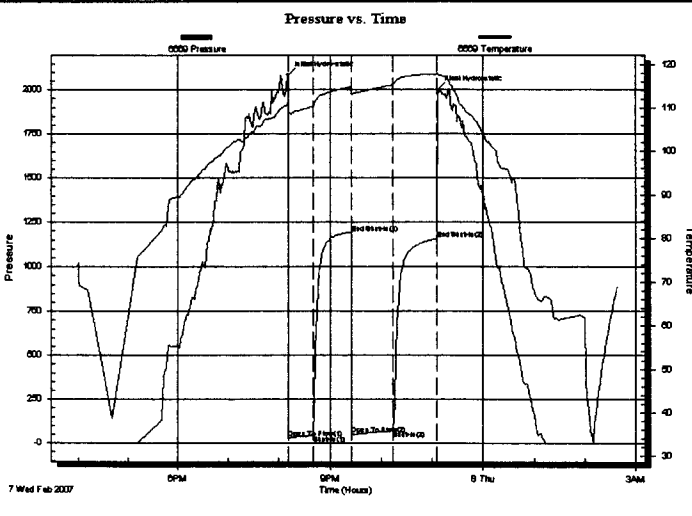
Reference Elevations: **2900.00 ft (KB)**  
**2895.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

## Serial #: 6669      Inside

Press@RunDepth: **71.87 psig @ 4169.00 ft (KB)**  
Start Date: **2007.02.07**      End Date:  
Start Time: **15:59:25**      End Time:

Capacity: **7000.00 psig**  
Last Calib.: **2007.02.08**  
Time On Btm: **2007.02.07 @ 20:10:50**  
Time Off Btm: **2007.02.07 @ 23:06:50**

TEST COMMENT: IF Weak built to 3 "  
ISI Dead  
FF Weak built to 2 "  
FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.59	111.34	Initial Hydro-static
1	27.99	108.95	Open To Flow (1)
29	44.58	110.32	Shut-In(1)
75	1186.85	114.84	End Shut-In(1)
75	50.07	113.11	Open To Flow (2)
124	71.87	115.33	Shut-In(2)
176	1156.19	117.88	End Shut-In(2)
176	1998.89	118.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	D.Mud	1.75

## Gas Rates

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer Resources  
177 W Limestone Rd  
Phillipsburg KS 67661  
  
ATTN: Rodger D.Wells

**Dirks # 1**  
**12 14S 32W Logan KS**  
Job Ticket: 27527      **DST#: 1**  
Test Start: 2007.02.07 @ 15:59:20

**Tool Information**

Drill Pipe:	Length: 4143.00 ft	Diameter: 3.80 inches	Volume: 58.12 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 58.12 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4165.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	150.00 ft			
Tool Length:	178.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4138.00	
Shut In Tool	5.00			4143.00	
Hydraulic tool	5.00			4148.00	
Jars	5.00			4153.00	
Safety Joint	3.00			4156.00	
Packer	4.00			4160.00	28.00      Bottom Of Top Packer
Packer	5.00			4165.00	
Stubb	1.00			4166.00	
Perforations	2.00			4168.00	
Change Over Sub	1.00			4169.00	
Recorder	0.00	6669	Inside	4169.00	
Blank Spacing	30.00			4199.00	
Recorder	0.00	11084	Outside	4199.00	
Change Over Sub	1.00			4200.00	
Blank Spacing	94.00			4294.00	
Perforations	18.00			4312.00	
Bullnose	3.00			4315.00	150.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>178.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Resources  
177 W Limestone Rd  
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ATTN: Rodger D.Wells

**Dirks # 1**  
**12 14S 32W Logan KS**  
Job Ticket: 27527      **DST#: 1**  
Test Start: 2007.02.07 @ 15:59:20

## 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: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	D.Mud	1.753

Total Length: 125.00 ft      Total Volume: 1.753 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

DST Test Number: 1

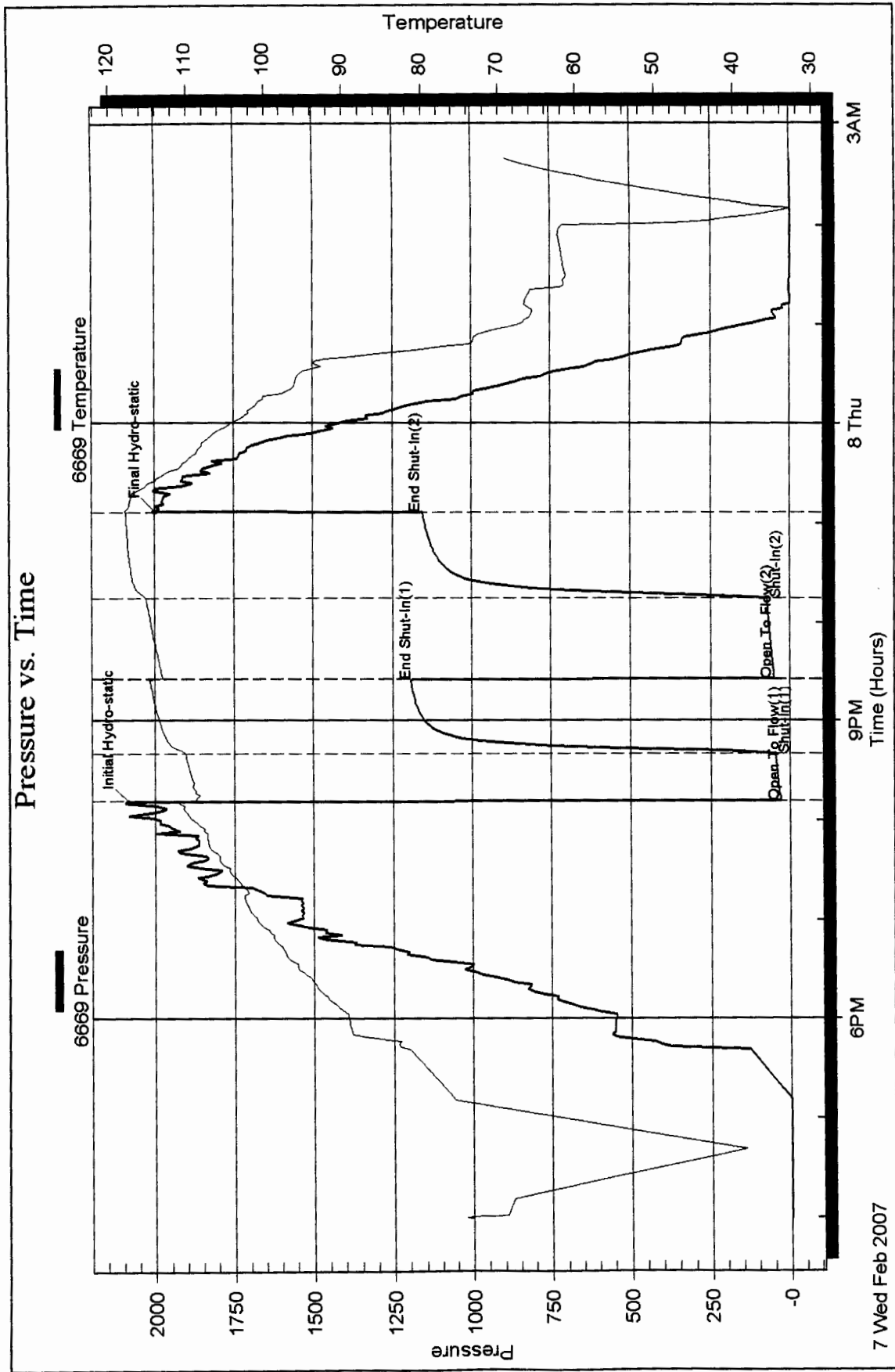
12 14S 32W Logan KS

Pioneer Resources

Inside

Serial #: 6669

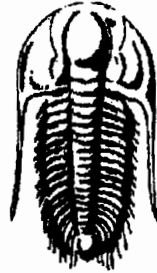
### Pressure vs. Time



Ref. No: 27527

Trilobite Testing, Inc

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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Rodger D.Wells

**12 14S 32W Logan KS**

**Dirks # 1**

Start Date: 2007.02.09 @ 06:15:52

End Date: 2007.02.09 @ 15:31:47

Job Ticket #: 26414                      DST #: 2

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



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# DRILL STEM TEST REPORT

Pioneer Resources

177 W Limestone Rd  
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ATTN: Rodger D.Wells

Dirks # 1

12 14S 32W Logan KS

Job Ticket: 26414

DST#: 2

Test Start: 2007.02.09 @ 06:15:52

## GENERAL INFORMATION:

Formation: **F.S.- Cher.- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:16:02

Time Test Ended: 15:31:47

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4432.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: 4530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2900.00 ft (KB)

2895.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 24.20 psig @ 4433.00 ft (KB)

Start Date: 2007.02.09

End Date:

2007.02.09

Capacity: 7000.00 psig

Last Calib.: 2007.02.09

Start Time: 06:15:52

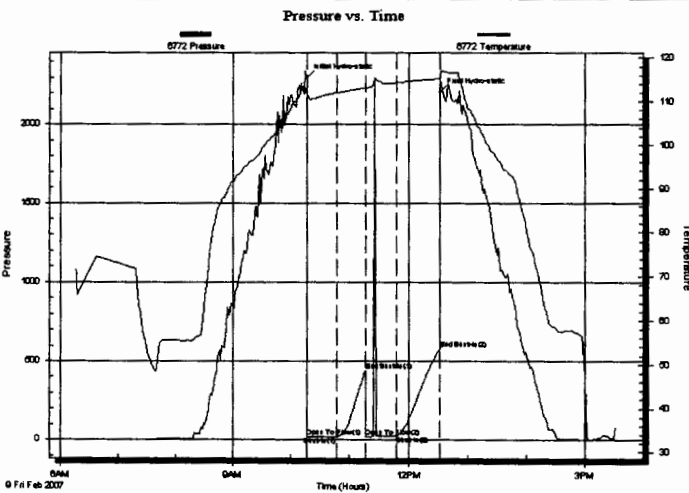
End Time:

15:31:47

Time On Btm: 2007.02.09 @ 10:15:47

Time Off Btm: 2007.02.09 @ 12:32:01

TEST COMMENT: IF 1/4 blow died in 12 min.  
IS No return  
FF No blow Flushed tool blow died in 7 min.  
FS No return



## PRESSURE SUMMARY

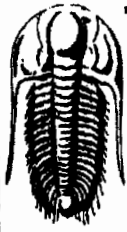
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.69	112.37	Initial Hydro-static
1	19.81	111.60	Open To Flow (1)
32	19.35	112.02	Shut-In(1)
61	440.52	113.14	End Shut-In(1)
61	20.13	113.01	Open To Flow (2)
92	24.20	114.32	Shut-In(2)
136	579.90	115.25	End Shut-In(2)
137	2207.17	115.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Some Oil spots 100%M	0.28

## Gas Rates

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



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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Pioneer Resources

**Dirks # 1**

177 W Limestone Rd  
Phillipsburg KS 67661

**12 14S 32W Logan KS**

Job Ticket: 26414

**DST#: 2**

ATTN: Rodger D.Wells

Test Start: 2007.02.09 @ 06:15:52

**Tool Information**

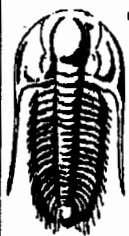
Drill Pipe:	Length: 4424.00 ft	Diameter: 3.80 inches	Volume: 62.06 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4432.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	98.00 ft			
Tool Length:	125.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4406.00	
Shut In Tool	5.00			4411.00	
Hydraulic tool	5.00			4416.00	
Jars	5.00			4421.00	
Safety Joint	2.00			4423.00	
Packer	5.00			4428.00	27.00 Bottom Of Top Packer
Packer	4.00			4432.00	
Stubb	1.00			4433.00	
Recorder	0.00	6772	Inside	4433.00	
Perforations	27.00			4460.00	
Change Over Sub	1.00			4461.00	
Drill Pipe	63.00			4524.00	
Change Over Sub	1.00			4525.00	
Recorder	0.00	7437	Outside	4525.00	
Bullnose	5.00			4530.00	98.00 Bottom Packers & Anchor

**Total Tool Length: 125.00**





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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Resources

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**12 14S 32W Logan KS**

Job Ticket: 26414

**DST#: 2**

ATTN: Rodger D.Wells

Test Start: 2007.02.09 @ 06:15:52

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.26 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M some Oil spots 100%M	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

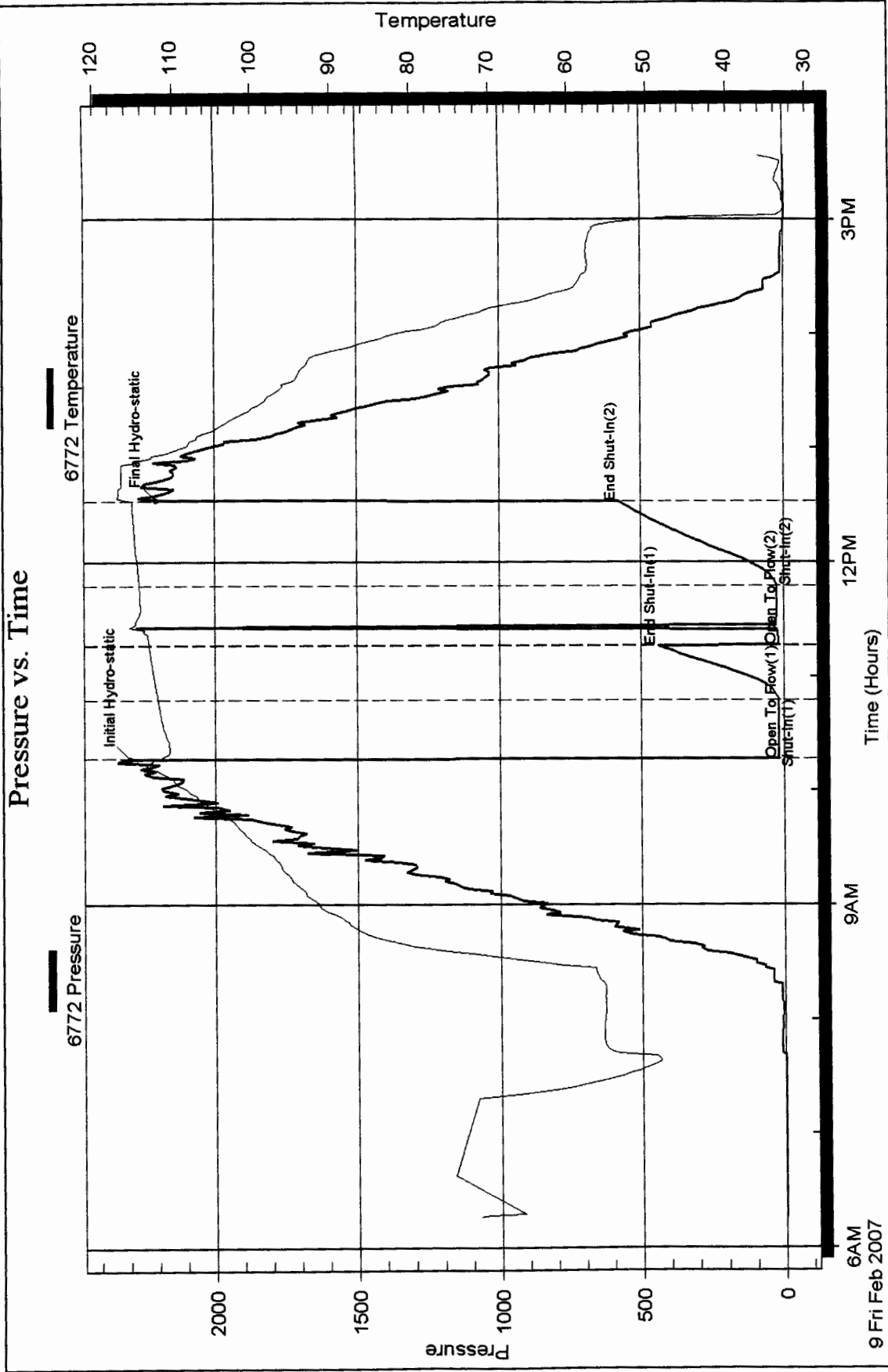
Serial #: 6772

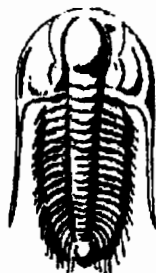
Inside

Pioneer Resources

12 14S 32W Logan KS

DST Test Number: 2





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

177 W Limestone Rd  
Phillipsburg KS 67661

ATTN: Rodger D.Wells

**12 14S 32W Logan KS**

**Dirks # 1**

Start Date: 2007.02.10 @ 15:10:21

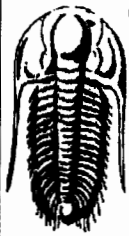
End Date: 2007.02.11 @ 02:43:31

Job Ticket #: 26415                      DST #: 3

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# DRILL STEM TEST REPORT

Pioneer Resources  
177 W Limestone Rd  
Phillipsburg KS 67661  
ATTN: Rodger D.Wells

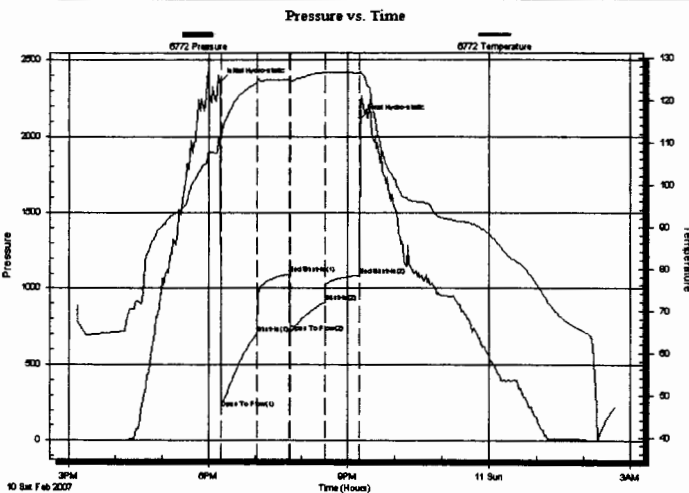
**Dirks # 1**  
**12 14S 32W Logan KS**  
Job Ticket: 26415      **DST#: 3**  
Test Start: 2007.02.10 @ 15:10:21

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:15:46  
Time Test Ended: 02:43:31  
Interval: **4565.00 ft (KB) To 4617.00 ft (KB) (TVD)**  
Total Depth: 4617.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Brandon Turley  
Unit No: 35  
Reference Elevations: 2900.00 ft (KB)  
2895.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6772**      **Inside**  
Press@RunDepth: 909.16 psig @ 4566.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.02.10      End Date: 2007.02.11      Last Calib.: 2007.02.11  
Start Time: 15:10:21      End Time: 02:43:31      Time On Btrc: 2007.02.10 @ 18:14:16  
Time Off Btrc: 2007.02.10 @ 21:15:15

**TEST COMMENT:** IF 1/4 blow BOB in 1 1/2 min.  
IS 1/4 blow BOB in 7 min.  
FF 1/4 blow BOB in 3 min.  
FS 1/4 blow BOB in 27 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2354.66	111.18	Initial Hydro-static
2	210.71	111.64	Open To Flow (1)
49	702.21	124.60	Shut-In(1)
91	1095.81	124.71	End Shut-In(1)
91	709.10	124.62	Open To Flow (2)
136	909.16	126.57	Shut-In(2)
181	1087.10	126.39	End Shut-In(2)
181	2118.06	126.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	GOCM 10%G 20%O 70%M	5.22
1426.00	MCGO 15%G 80%O 5%M	20.00
496.00	GO 15%G 85%O	6.96

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer Resources

**Dirks # 1**

177 W Limestone Rd  
Phillipsburg KS 67661

**12 14S 32W Logan KS**

Job Ticket: 26415

**DST#: 3**

ATTN: Rodger D.Wells

Test Start: 2007.02.10 @ 15:10:21

### Tool Information

Drill Pipe:	Length: 4549.00 ft	Diameter: 3.80 inches	Volume: 63.81 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
		<b>Total Volume:</b>	<b>63.81 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4565.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4539.00	
Shut In Tool	5.00			4544.00	
Hydraulic tool	5.00			4549.00	
Jars	5.00			4554.00	
Safety Joint	2.00			4556.00	
Packer	5.00			4561.00	27.00 Bottom Of Top Packer
Packer	4.00			4565.00	
Stubb	1.00			4566.00	
Recorder	0.00	6772	Inside	4566.00	
Perforations	12.00			4578.00	
Change Over Sub	1.00			4579.00	
Drill Pipe	32.00			4611.00	
Change Over Sub	1.00			4612.00	
Recorder	0.00	7437	Outside	4612.00	
Bullnose	5.00			4617.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Resources

**Dirks # 1**

177 W Limestone Rd  
Phillipsburg KS 67661

**12 14S 32W Logan KS**

Job Ticket: 26415

**DST#: 3**

ATTN: Rodger D.Wells

Test Start: 2007.02.10 @ 15:10:21

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	GOOM 10%G 20%O 70%M	5.218
1426.00	MCGO 15%G 80%O 5%M	20.003
496.00	GO 15%G 85%O	6.958

Total Length: 2294.00 ft      Total Volume: 32.179 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

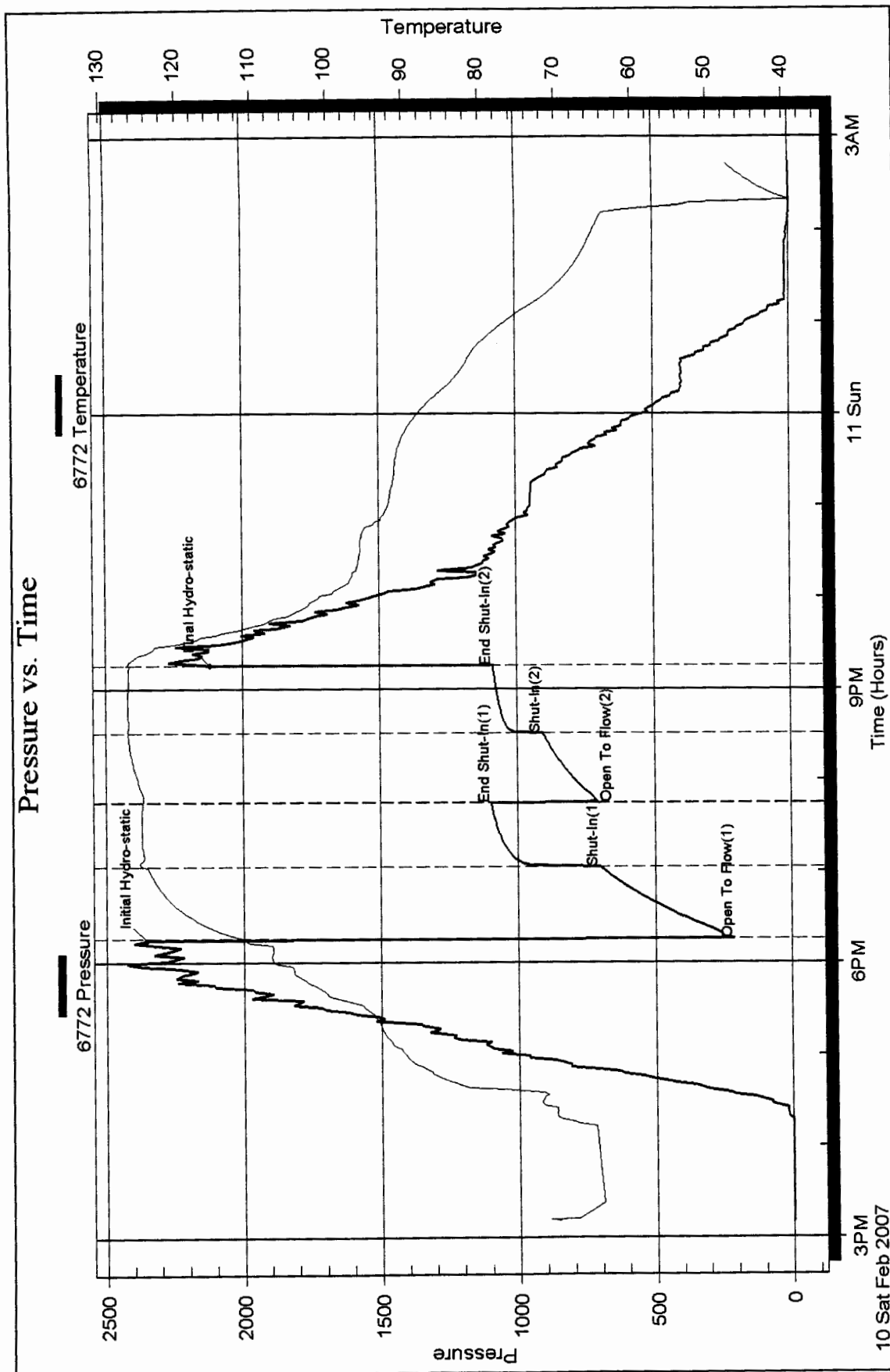
12 14S 32W Logan KS

Pioneer Resources

Inside

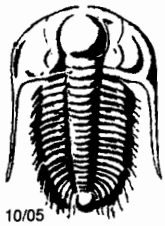
Serial #: 6772

### Pressure vs. Time



Ref. No: 26415

Trilobite Testing, Inc



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27527

9844

## Test Ticket

Well Name & No. DIRKS #1 Test No. #1 Date 2-7-07  
 Company PIONEER RES. Zone Tested L.K.C. - K. TO MARM.  
 Address 177 W. LIMESTONE RD, PHILLIPSBURG, KS 67661 Elevation 2900 KB 2895 GL  
 Co. Rep / Geo. STEVE MURPHY Rig WARREN  
 Location: Sec. 12 Twp. 14s Rge. 32W Co. LOGAN State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4165 To 4315 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 52,000  
 Anchor Length 150' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 4160 Tool Weight 2,600  
 Bottom Packer Depth 4165 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 4315 Wt. Pipe Run 0 Drill Collar Run 0  
 Mud Wt. 9.1 LCM TR Vis. 41 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run 4143  
 Blow Description IF - WEAK BUILT TO 3" IN. FSI - DEAD  
FF - WEAK BUILT TO 2" IN. FSI - DEAD

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>125'</u>	<u>—</u>	<u>—</u>	<u>125'</u>
Rec. <u>125'</u>	Feet of <u>D. MVP</u>	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
BHT <u>117</u>	'F Gravity <u>—</u>	'API D @ <u>—</u>	'F Corrected Gravity <u>—</u> 'API
RW <u>—</u>	@ <u>—</u> 'F	Chlorides <u>—</u> ppm	Recovery <u>—</u> Chlorides <u>11,000</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2083</u> PSI	<u>2083</u> PSI	<u>6669</u>	<u>1200</u>
(B) First Initial Flow Pressure	<u>27</u> PSI	<u>27</u> PSI	<u>4169</u>	<u>250</u>
(C) First Final Flow Pressure	<u>44</u> PSI	<u>44</u> PSI	<u>11084</u>	<u>75</u>
(D) Initial Shut-In Pressure	<u>1186</u> PSI	<u>1186</u> PSI	<u>4199</u>	
(E) Second Initial Flow Pressure	<u>50</u> PSI	<u>50</u> PSI		
(F) Second Final Flow Pressure	<u>71</u> PSI	<u>71</u> PSI		
(G) Final Shut-In Pressure	<u>1156</u> PSI	<u>1156</u> PSI	<u>30</u>	
(Q) Final Hydrostatic Mud	<u>1998</u> PSI	<u>1998</u> PSI	<u>45</u>	

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Approved By [Signature]  
 Our Representative [Signature]

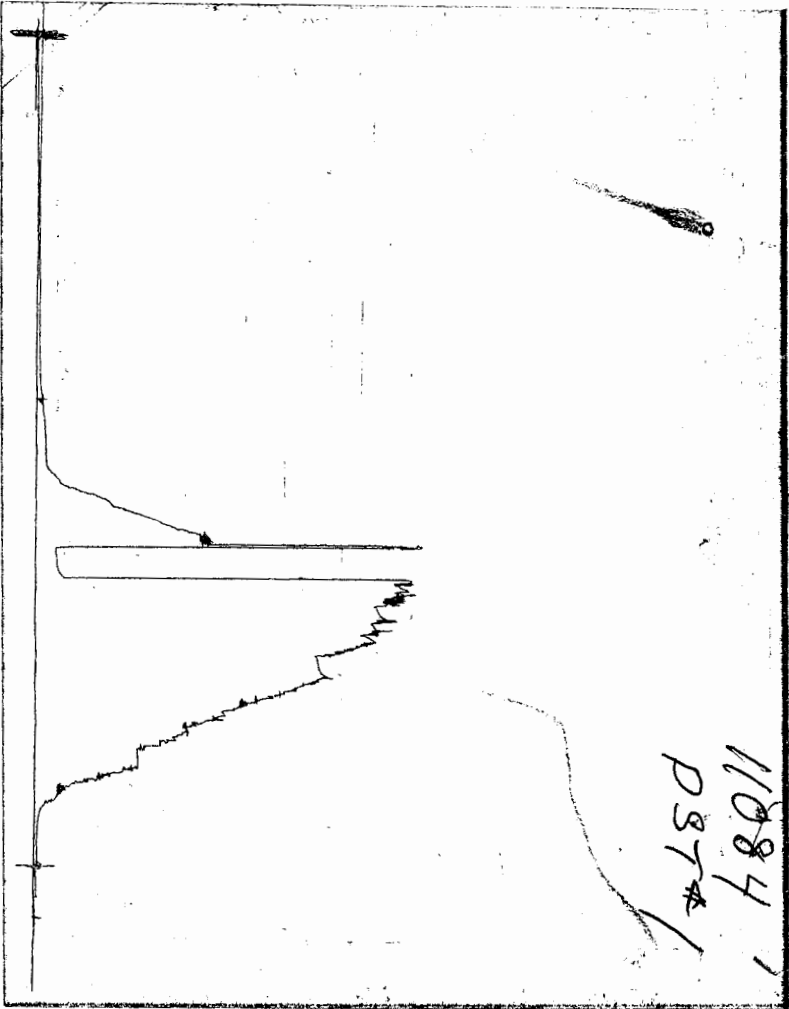
T-On Location	T-Started	T-Open	T-Pulled	T-Out
<u>13:15</u>	<u>15:59</u>	<u>20:11</u>	<u>23:06</u>	<u>02:38</u>

Initial Opening 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Mileage 60 25  
 Sub Total: \_\_\_\_\_  
 Std. By chr 400  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: 2000.00

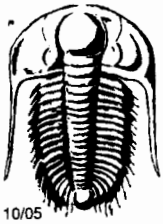


**CHART PAGE**

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



Pioneer  
Dicks



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26414

## Test Ticket

Well Name & No. Dirks #1 Test No. 2 Date 2-9-07  
 Company Pioneer Resources Zone Tested Es.-cher.-Johnson  
 Address 177W. Limestone Rd. Phillipsburg, KS 67661 Elevation 2901 KB 2896 GL  
 Co. Rep / Geo. Steve Murphy Rig Warren #14  
 Location: Sec. 12 Twp. 14S Rge. 32W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4432 4530 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000  
 Anchor Length \_\_\_\_\_ 98 Wt. Set Lbs. 39,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth \_\_\_\_\_ 4427 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 4432 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth \_\_\_\_\_ 4530 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.2 LCM 0 Vis. 52 WL 12.3 Drill Pipe Size 4 1/2 X H Ft. Run 4424  
 Blow Description IF: 1/4 blow died in 12 min.

±S: No return.  
FK: No blow. Flashed tool blow died in 7 min.  
FS: No return.

Recovery - Total Feet 20 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP 20  
 Rec. 20 Feet of mud some oil spots %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 20 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT 115 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 11400 ppm System

	AK-1	Alpine	Recorder No.	Test x
(A) Initial Hydrostatic Mud	<u>2384</u>	PSI	<u>6772</u>	<u>1200,00</u>
(B) First Initial Flow Pressure	<u>19</u>	PSI	<u>4433</u>	Jars x <u>250,00</u>
(C) First Final Flow Pressure	<u>19</u>	PSI	<u>7437</u>	Safety Jt. x <u>75,00</u>
(D) Initial Shut-In Pressure	<u>440</u>	PSI	<u>4529</u>	Circ Sub x <u>N/C</u>
(E) Second Initial Flow Pressure	<u>20</u>	PSI		Sampler _____
(F) Second Final Flow Pressure	<u>24</u>	PSI		Straddle _____
(G) Final Shut-In Pressure	<u>579</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2269</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>45</u>	Mileage <u>60-75,00</u>

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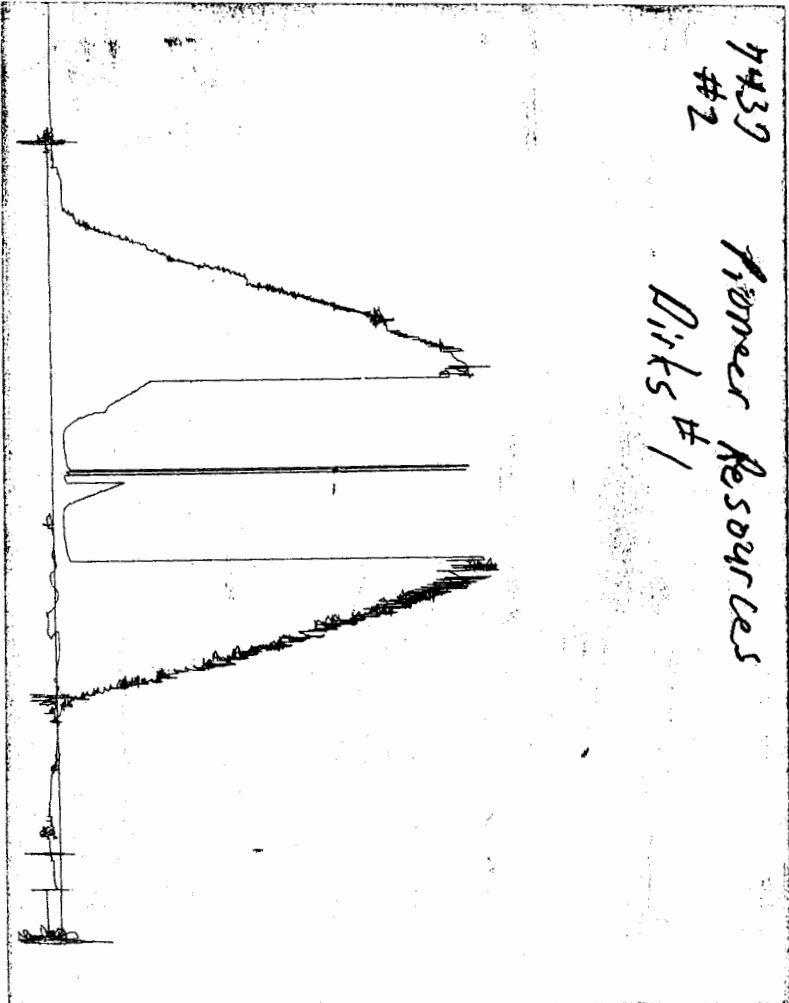
Approved By \_\_\_\_\_ T-On Location 3:00 Sub Total: \_\_\_\_\_  
 \_\_\_\_\_ T-Started 6:15 Std. By X 35 350  
 \_\_\_\_\_ T-Open 10:16 Acc. Chg: X 10000  
 \_\_\_\_\_ T-Pulled 12:31 Other: \_\_\_\_\_  
 Our Representative \_\_\_\_\_ T-Out 15:30 Total: 1950

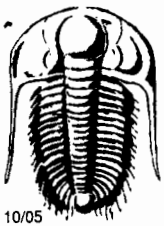
**CHART PAGE**

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

7439  
#2

Tomer Resources  
Dirks #1





# TRILOBITE TESTING INC.

26415

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Dirks #1 Test No. 3 Date 2-10-07  
 Company Pioneer Resources Zone Tested Morrow  
 Address 177W. Limestone Rd. Phillipsburg, KS 67661 Elevation 2901 KB 2896 GL  
 Co. Rep / Geo. Steve Murphy Rig Warren #14  
 Location: Sec. 12 Twp. 14S Rge. 32W Co. Logan State KS  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4565 4617 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 60,000  
 Anchor Length \_\_\_\_\_ Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth \_\_\_\_\_ Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.2 LCM 2 Vis. 63 WL 1.2 Drill Pipe Size 4 1/2 X H Ft. Run 4549  
 Blow Description IF: 1/4 blow BoB in 1 1/2 min.  
IS: 1/4 blow BoB in 7 min.  
FF: 1/4 blow BoB in 3 min.  
FS: 1/4 blow BoB in 27 min.

Recovery - Total Feet 2294 GIP 1302 Ft. in DC \_\_\_\_\_ Ft. in DP 2294  
 Rec. 496 Feet of 90 15% gas 85% oil %water %mud  
 Rec. 1426 Feet of mc90 15% gas 80% oil %water 5 %mud  
 Rec. 372 Feet of 90cm 10% gas 20% oil %water 70 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 126 °F Gravity 31 °API D @ 30 °F Corrected Gravity 34 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 11,000 ppm System

(A) Initial Hydrostatic Mud	AK-1 Alpine	2424 PSI	Recorder No.	<u>6772</u>	Test &	<u>1200.00</u>
(B) First Initial Flow Pressure		<u>210</u> PSI	(depth)	<u>4566</u>	Jars &	<u>250.00</u>
(C) First Final Flow Pressure		<u>702</u> PSI	Recorder No.	<u>7437</u>	Safety Jt. &	<u>75.00</u>
(D) Initial Shut-In Pressure		<u>1095</u> PSI	(depth)	<u>4616</u>	Circ Sub	<u>N/L</u>
(E) Second Initial Flow Pressure		<u>709</u> PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		<u>909</u> PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		<u>1087</u> PSI	Initial Opening	<u>45</u>	Ext. Packer	
(Q) Final Hydrostatic Mud		<u>2299</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer	
			Final Flow	<u>45</u>	Ruined Packer	<u>200.00</u>
			Final Shut-In	<u>45</u>	Mileage	<u>120-150.00</u>
			T-On Location	<u>24:30</u>	Sub Total:	
			T-Started	<u>15:10</u>	Std. By	<u>X4-400.00</u>
			T-Open	<u>18:15</u>	Acc. Chg:	<del>750.00</del>
			T-Pulled	<u>21:15</u>	Other:	
			T-Out	<u>3:00</u>	Total:	<u>\$2275</u>

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Approved By \_\_\_\_\_  
 Our Representative \_\_\_\_\_

**CHART PAGE**

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7437  
#3  
Pioneer Resources  
Dirks #1

