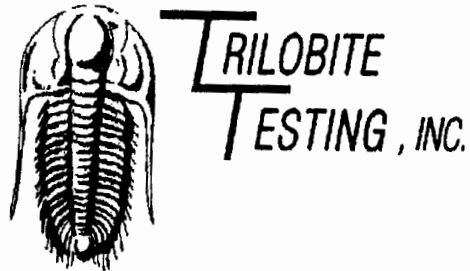


15-109-20785

12-14s-32w



DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

177 W Limestone Rd
Phillipsburg KS 67661

ATTN: Steve Murphy

12 14 32 Logan KS

Dirks #2

Start Date: 2007.08.11 @ 17:55:06

End Date: 2007.08.12 @ 05:40:46

Job Ticket #: 28755 DST #: 1

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

Pioneer Resources

Dirks #2

12 14 32 Logan KS

DST # 1

Cherokee

2007.08.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pioneer Resources

177 W Limestone Rd
Phillipsburg KS 67661

ATTN: Steve Murphy

Dirks #2

12 14 32 Logan KS

Job Ticket: 28755

DST#: 1

Test Start: 2007.08.11 @ 17:55:06

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:54:31

Time Test Ended: 05:40:46

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4468.00 ft (KB) To 4544.00 ft (KB) (TVD)**

Total Depth: 4544.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2907.00 ft (KB)

2897.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667 Inside

Press@RunDepth: 240.24 psig @ 4469.00 ft (KB)

Start Date: 2007.08.11

End Date: 2007.08.12

Start Time: 17:55:06

End Time: 05:23:46

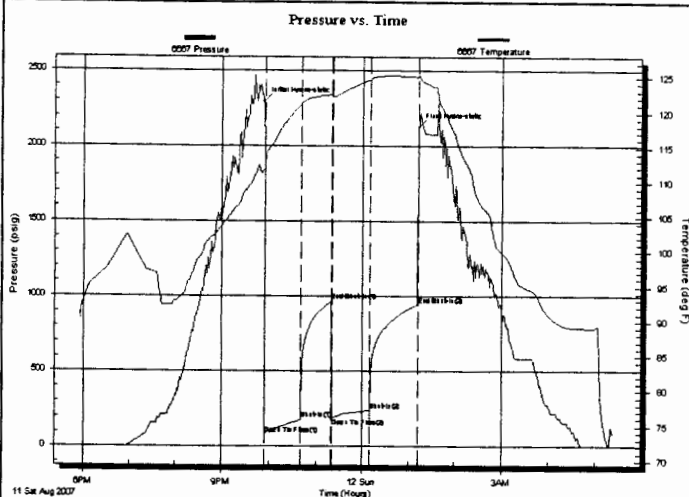
Capacity: 7000.00 psig

Last Calib.: 2007.08.12

Time On Btm: 2007.08.11 @ 21:52:46

Time Off Btm: 2007.08.12 @ 01:12:46

TEST COMMENT: Mud dropped 10-15' @ open 3 3/4" blow @ open built to 7 3/4"
No return
Surface blow built to 3 1/4"
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.00	111.76	Initial Hydro-static
2	80.56	112.64	Open To Flow (1)
48	179.74	121.16	Shut-In (1)
87	966.79	122.53	End Shut-In (1)
88	189.47	122.33	Open To Flow (2)
137	240.24	124.74	Shut-In (2)
200	942.97	125.09	End Shut-In (2)
200	2126.57	125.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	100%W	1.18
120.00	MCW 40%M 60%W	0.59
110.00	SWCM 10%W 90%M	1.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Resources

177 W Limestone Rd
Phillipsburg KS 67661

ATTN: Steve Murphy

Dirks #2

12 14 32 Logan KS

Job Ticket: 28755

DST#: 1

Test Start: 2007.08.11 @ 17:55:06

Tool Information

Drill Pipe:	Length: 4035.00 ft	Diameter: 3.80 inches	Volume: 56.60 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:	25000.00 lb
Drill Collar:	Length: 419.00 ft	Diameter: 2.25 inches	Volume: 2.06 bbl	Weight to Pull Loose:	85000.00 lb
		Total Volume:	58.66 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4468.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	103.00 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			4442.00	
Shut In Tool	5.00			4447.00	
Hydraulic tool	5.00			4452.00	
Jars	5.00			4457.00	
Safety Joint	2.00			4459.00	
Packer	5.00			4464.00	27.00 Bottom Of Top Packer
Packer	4.00		Inside	4468.00	
Stubb	1.00			4469.00	
Recorder	0.00	6667	Inside	4469.00	
Perforations	5.00			4474.00	
Change Over Sub	1.00			4475.00	
Drill Pipe	63.00			4538.00	
Change Over Sub	1.00			4539.00	
Recorder	0.00	11058	Inside	4539.00	
Bullnose	5.00			4544.00	76.00 Bottom Packers & Anchor

Total Tool Length: 103.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources

Dirks #2

177 W Limestone Rd
Phillipsburg KS 67661

12 14 32 Logan KS

Job Ticket: 28755

DST#: 1

ATTN: Steve Murphy

Test Start: 2007.08.11 @ 17:55:06

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:

69500 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	100%W	1.180
120.00	MCW 40%M 60%W	0.590
110.00	SWCM 10%W 90%M	1.006

Total Length: 470.00 ft

Total Volume: 2.776 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .110 @ 76*f = 69500 chlorides

Serial #: 6667

Inside

Pioneer Resources

12 14 32 Logan KS

DST Test Number: 1

