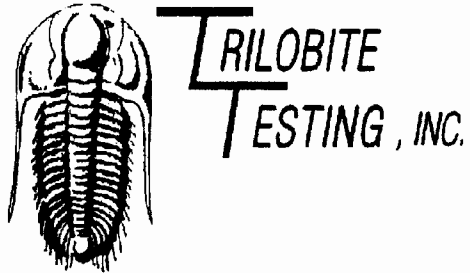


23-14s-16w



DRILL STEM TEST REPORT

Prepared For: **TDI Oil Operations**

1310 Bison Rd
Hays KS 67601

ATTN: Jerry Green

23 14 16 Ellis KS

Furthmeyer #3

Start Date: 2007.09.21 @ 05:16:37

End Date: 2007.09.21 @ 11:44:07

Job Ticket #: 30597 DST #: 1

15-051-25674-00-00

SW SE SW

330 FSL 1500 FWL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TDI Oil Operations

1310 Bison Rd
Hays KS 67601

ATTN: Jerry Green

Furthmeyer #3

23 14 16 Ellis KS

Job Ticket: 30597

DST#: 1

Test Start: 2007.09.21 @ 05:16:37

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:24:07

Time Test Ended: 11:44:07

Test Type: Conventional Straddle

Tester: Tyson Flax

Unit No: 21

Interval: 3356.00 ft (KB) To 3416.00 ft (KB) (TVD)

Total Depth: 3500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 47.06 psig @ 3371.00 ft (KB)

Start Date: 2007.09.21

End Date:

2007.09.21

Capacity: 7000.00 psig

Last Calib.: 2007.09.21

Start Time: 05:16:38

End Time:

11:44:07

Time On Btm: 2007.09.21 @ 07:22:37

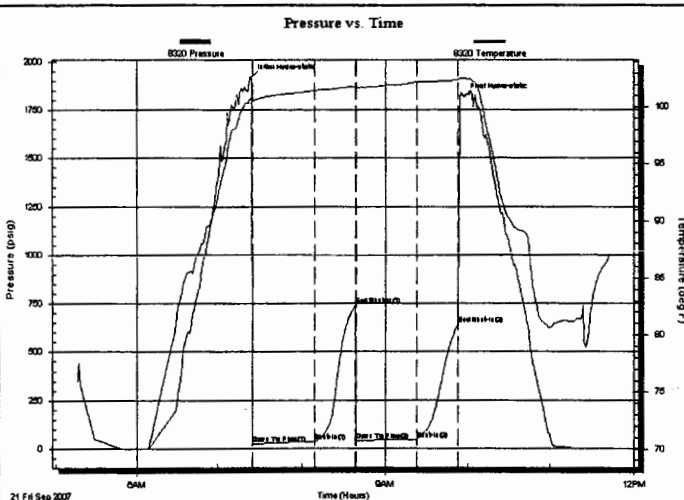
Time Off Btm: 2007.09.21 @ 09:57:37

TEST COMMENT: IFP Weak surface blow built to 3.5 "

ISI No blow back

FFP Weak surface blow throughout

FSI No blow back



PRESSURE SUMMARY

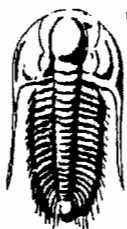
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.66	100.67	Initial Hydro-static
2	24.39	100.53	Open To Flow (1)
47	36.11	101.45	Shut-In (1)
76	742.00	101.82	End Shut-In (1)
77	39.29	101.76	Open To Flow (2)
121	47.06	102.22	Shut-In (2)
151	644.19	102.37	End Shut-In (2)
155	1816.59	102.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 20%O 80%M	0.78

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Oil Operations

Furthmeyer #3

1310 Bison Rd
Hays KS 67601

23 14 16 Ellis KS

Job Ticket: 30597

DST#: 1

ATTN: Jerry Green

Test Start: 2007.09.21 @ 05:16:37

Tool Information

Drill Pipe:	Length: 3352.00 ft	Diameter: 3.82 inches	Volume: 47.52 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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:	40000.00 lb
		Total Volume:	47.52 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3356.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	3416.00 ft				
Interval between Packers:	60.00 ft				
Tool Length:	167.00 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			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Packer	5.00			3351.00	21.00 Bottom Of Top Packer
Packer	5.00			3356.00	
Stubb	1.00			3357.00	
Perforations	13.00			3370.00	
Change Over Sub	1.00			3371.00	
Recorder	0.00	8320	Inside	3371.00	
Blank Spacing	31.00			3402.00	
Change Over Sub	1.00			3403.00	
Perforations	10.00			3413.00	
Recorder	0.00	6246	Inside	3413.00	
Blank Off Sub	1.00			3414.00	
Stubb	2.00			3416.00	60.00 Tool Interval
Packer	2.00			3418.00	
Stubb	1.00			3419.00	
Perforations	15.00			3434.00	
Change Over Sub	1.00			3435.00	
Blank Spacing	63.00			3498.00	
Change Over Sub	1.00			3499.00	
Recorder	0.00	13401	Outside	3499.00	
Bullnose	3.00			3502.00	86.00 Bottom Packers & Anchor
Total Tool Length:		167.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Oil Operations

Furthmeyer #3

1310 Bison Rd
Hays KS 67601

23 14 16 Ellis KS

Job Ticket: 30597

DST#: 1

ATTN: Jerry Green

Test Start: 2007.09.21 @ 05:16:37

Mud and Cushion Information

Mud Type: KCl

Mud Weight: 10.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 90000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 20%O 80%M	0.780

Total Length: 55.00 ft

Total Volume: 0.780 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

