

33-30-10W ✓
15-095-22171-0000
KGS



DRILL STEM TEST REPORT

Prepared For: **Epp Exploration, LLC**

110 A Spring Creek
Waco TX 76705

ATTN: Dave Williams

33 30 10 Kingman KS

Ensor #1

Start Date: 2008.10.20 @ 00:39:56

End Date: 2008.10.20 @ 14:07:56

Job Ticket #: 33020 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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KANSAS CORPORATION COMMISSION
FEB 18 2009
CONSERVATION DIVISION
WICHITA KS



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Epp Exploration, LLC

Ensor #1

110 A Spring Creek
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33 30 10 Kingman KS

Job Ticket: 33020

DST#: 1

ATTN: Dave Williams

Test Start: 2008.10.20 @ 00:39:56

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 07:54:26

Time Test Ended: 14:07:56

Test Type: **Conventional Bottom Hole**

Tester: **Esak Hadley**

Unit No: **23**

Interval: **4689.00 ft (KB) To 4730.00 ft (KB) (TVD)**

Reference Elevations: **1717.00 ft (KB)**

Total Depth: **4730.00 ft (KB) (TVD)**

1706.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

Serial #: 8370

Inside

Press@RunDepth: **25.26 psig @ 4690.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2008.10.20**

End Date:

2008.10.20

Last Calib.: **2008.10.20**

Start Time: **00:40:01**

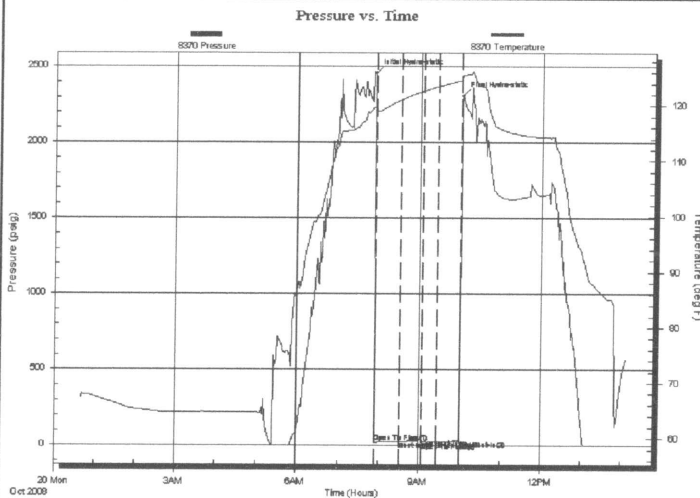
End Time:

14:07:56

Time On Btm: **2008.10.20 @ 07:54:10**

Time Off Btm: **2008.10.20 @ 10:02:11**

TEST COMMENT: IF Weak surface blow . No more than 1/4".
ISI No blow .
FF No blow . (flushed tool but still no blow)
FSI No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2459.09	119.75	Initial Hydro-static
1	22.48	118.53	Open To Flow (1)
38	24.90	121.06	Shut-In(1)
72	40.15	122.66	End Shut-In(1)
72	24.01	122.66	Open To Flow (2)
92	25.26	123.43	Shut-In(2)
127	33.26	124.55	End Shut-In(2)
129	2309.75	125.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drlg. mud	0.02

Gas Rates

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

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TOOL DIAGRAM

Epp Exploration, LLC

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Test Start: 2008.10.20 @ 00:39:56

Tool Information

Drill Pipe:	Length: 4547.00 ft	Diameter: 3.80 inches	Volume: 63.78 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 64.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4689.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	68.00 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			4663.00	
Shut In Tool	5.00			4668.00	
Hydraulic tool	5.00			4673.00	
Jars	5.00			4678.00	
Safety Joint	2.00			4680.00	
Packer	4.00			4684.00	27.00 Bottom Of Top Packer
Packer	5.00			4689.00	
Stubb	1.00			4690.00	
Recorder	0.00	8370	Inside	4690.00	
Recorder	0.00	8289	Inside	4690.00	
Perforations	5.00			4695.00	
Change Over Sub	1.00			4696.00	
Blank Spacing	31.00			4727.00	
Change Over Sub	1.00			4728.00	
Bullnose	2.00			4730.00	41.00 Bottom Packers & Anchor

Total Tool Length: 68.00

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FLUID SUMMARY

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DST#: 1

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Test Start: 2008.10.20 @ 00:39:56

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drlg. mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

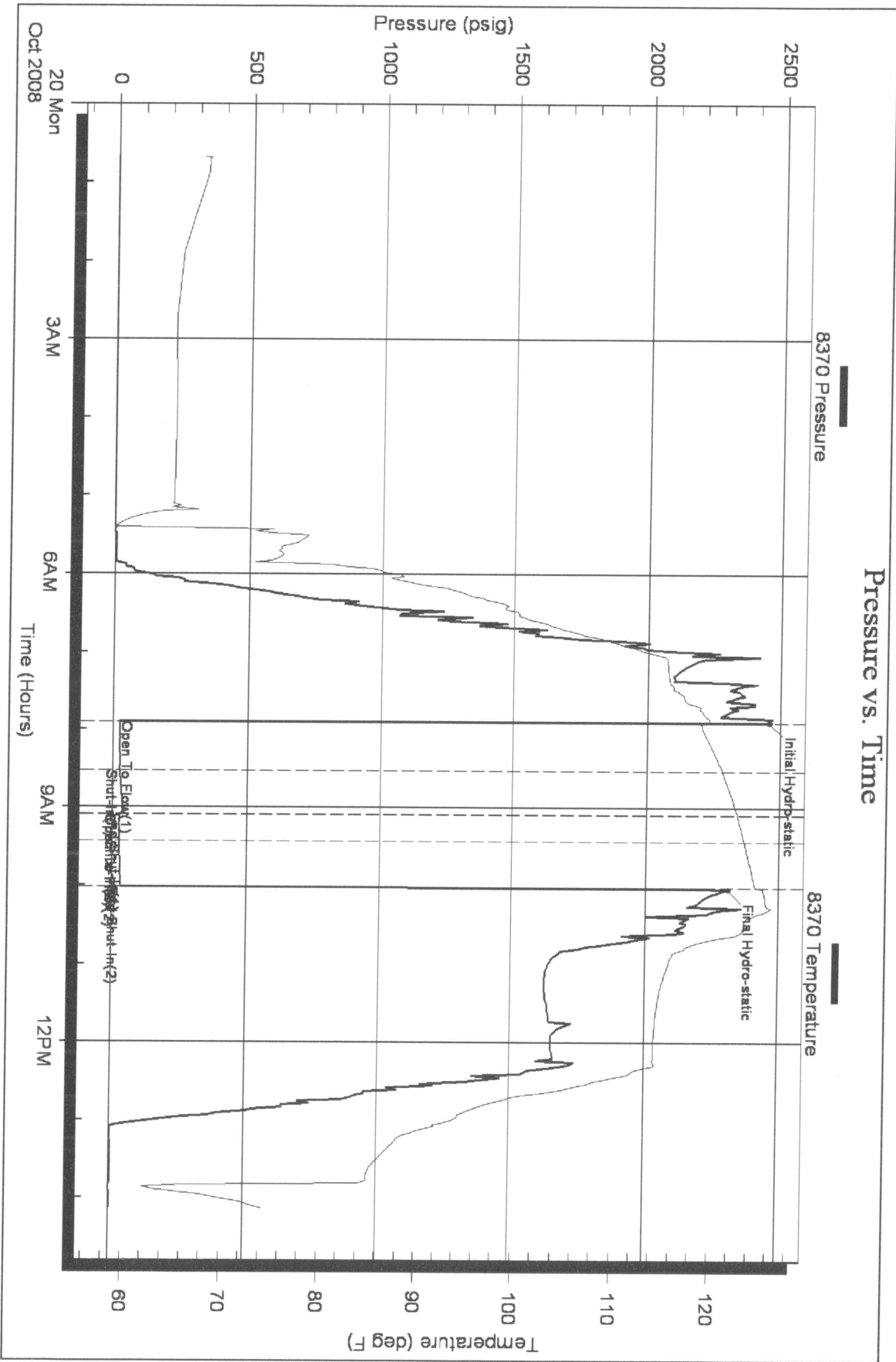
Laboratory Location:

Recovery Comments:

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