

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**
 200 E First Ste 307
 Wichita KS 67202

ATTN: Pat Deenihan

20 16 23 Ness KS

Horchem 1-20

Start Date: 2006.09.13 @ 15:31:52

End Date: 2006.09.14 @ 00:44:52

Job Ticket #: 26213 DST #: 1

15-135-24531-00-00

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

Grand Mesa Operating

Horchem 1-20

20 16 23 Ness KS

DST # 1

?

2006.09.13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating

Horchem 1-20

200 E First Ste 307
Wichita KS 67202

20 16 23 Ness KS

Job Ticket: 26213

DST#: 1

ATTN: Pat Deenihan

Test Start: 2006.09.13 @ 15:31:52

GENERAL INFORMATION:

Formation: ?

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:38:22

Time Test Ended: 00:44:52

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 21

Interval: 4450.00 ft (KB) To 4503.00 ft (KB) (TVD)

Total Depth: 4503.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2496.00 ft (KB)

2488.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8289

Inside

Press@RunDepth: 43.01 psig @ 4453.00 ft (KB)

Start Date: 2006.09.13

End Date:

2006.09.14

Start Time: 15:31:57

End Time:

00:44:52

Capacity: 7000.00 psig

Last Calib.: 2006.09.14

Time On Btrt: 2006.09.13 @ 18:37:22

Time Off Btrt: 2006.09.13 @ 20:46:51

TEST COMMENT:

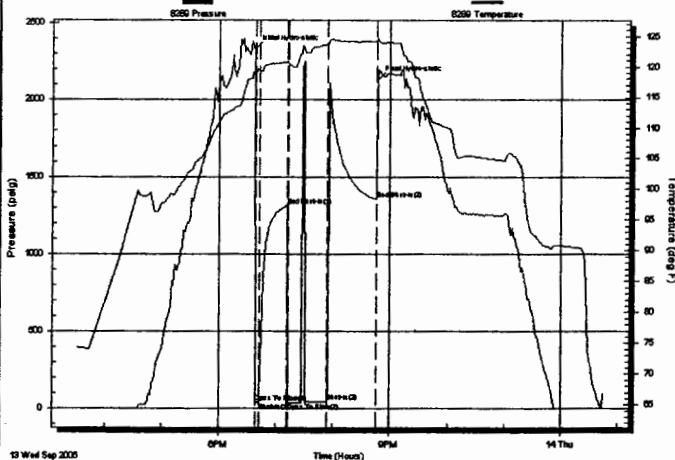
F Weak surface blow

ISI No Blow

FF No Blow Flushed tool Weak surface blow 22 min Died

FSI No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.54	119.21	Initial Hydro-static
1	35.89	118.88	Open To Flow (1)
5	36.93	119.37	Shut-In (1)
35	1311.18	120.79	End Shut-In (1)
36	35.68	120.61	Open To Flow (2)
78	43.01	123.63	Shut-In (2)
129	1352.91	124.19	End Shut-In (2)
130	2132.32	124.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drilling Mud	0.31

Gas Rates

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



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TOOL DIAGRAM

Grand Mesa Operating
200 E First Ste 307
Wichita KS 67202
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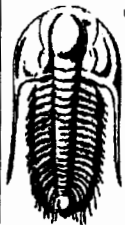
Horchem 1-20
20 16 23 Ness KS
Job Ticket: 26213 DST#: 1
Test Start: 2006.09.13 @ 15:31:52

Tool Information

Drill Pipe:	Length: 4447.00 ft	Diameter: 4.00 inches	Volume: 69.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 69.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4450.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4427.00	
Hydraulic tool	5.00			4432.00	
Jars	5.00			4437.00	
Safety Joint	3.00			4440.00	
Packer	5.00			4445.00	28.00 Bottom Of Top Packer
Packer	5.00			4450.00	
Stubb	1.00			4451.00	
Perforations	1.00			4452.00	
Change Over Sub	1.00			4453.00	
Recorder	0.00	8289	Inside	4453.00	
Blank Spacing	31.00			4484.00	
Change Over Sub	1.00			4485.00	
Perforations	15.00			4500.00	
Recorder	0.00	13409	Inside	4500.00	
Bullnose	3.00			4503.00	53.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



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FLUID SUMMARY

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Horchem 1-20

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Job Ticket: 26213

DST#: 1

ATTN: Pat Deenihan

Test Start: 2006.09.13 @ 15:31:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drilling Mud	0.311

Total Length: 20.00 ft Total Volume: 0.311 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

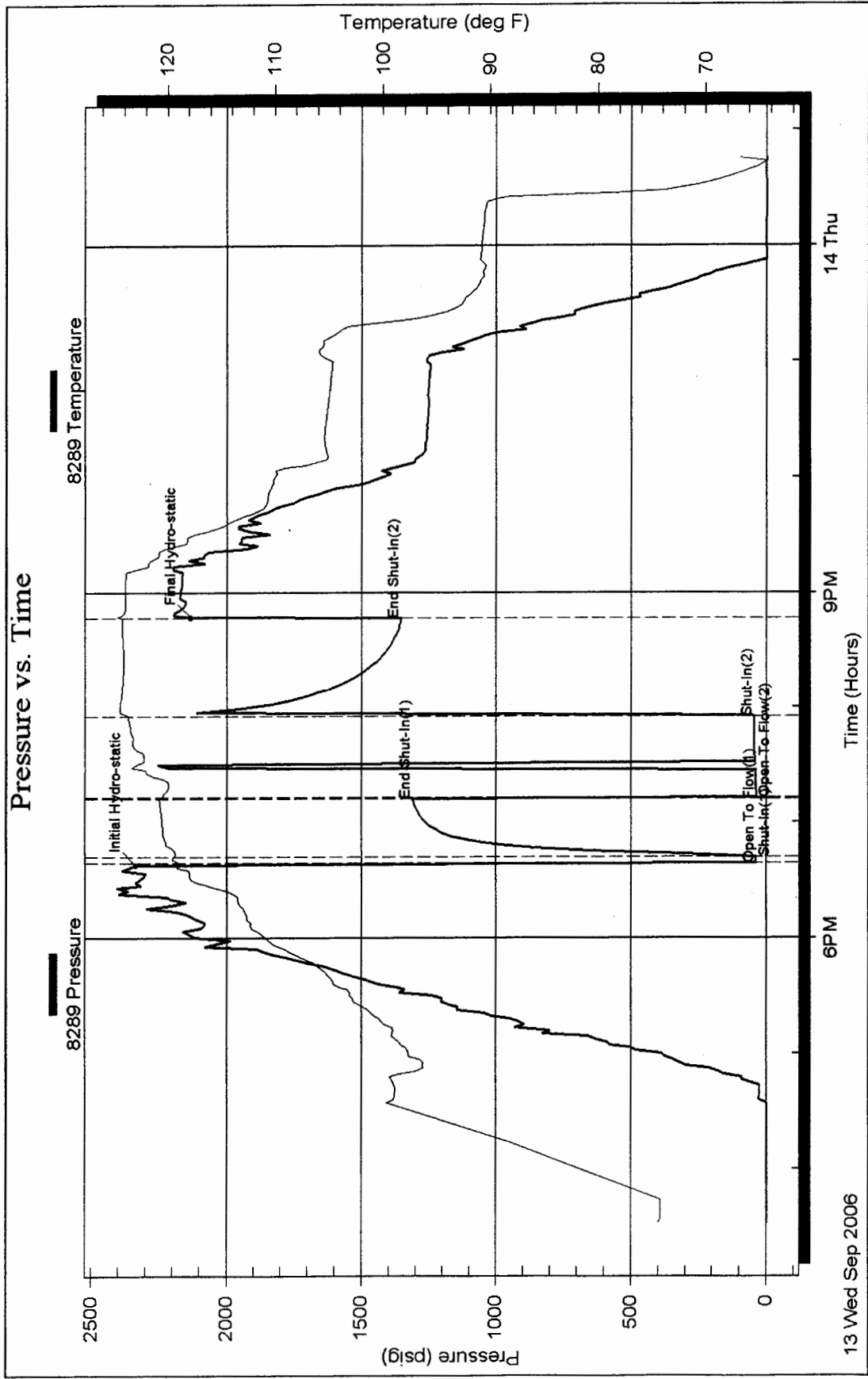
Serial #: 8289

Inside

Grand Mesa Operating

20 16 23 Ness KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 26213

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