

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co Inc**

12950 E 13 th St
Wichita KS 67230

ATTN: Stan Mitchell

7 21 22W Hodgeman KS

Frusher Farms # 1

Start Date: 2007.10.29 @ 04:57:59

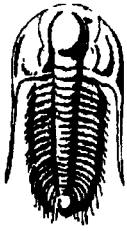
End Date: 2007.10.29 @ 15:33:29

Job Ticket #: 30717 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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Test Start: 2007.10.29 @ 04:57:59

GENERAL INFORMATION:

Formation: **Ft.Scott**

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

Time Tool Opened: 08:10:29

Time Test Ended: 15:33:29

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **4315.00 ft (KB) To 4346.00 ft (KB) (TVD)**

Total Depth: **4346.00 ft (KB) (TVD)**

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

Reference Elevations: **2249.00 ft (KB)**

2239.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6669 **Inside**

Press@RunDepth: **86.71 psig @ 4318.00 ft (KB)**

Start Date: **2007.10.29**

End Date:

2007.10.29

Start Time: **04:58:04**

End Time:

15:33:29

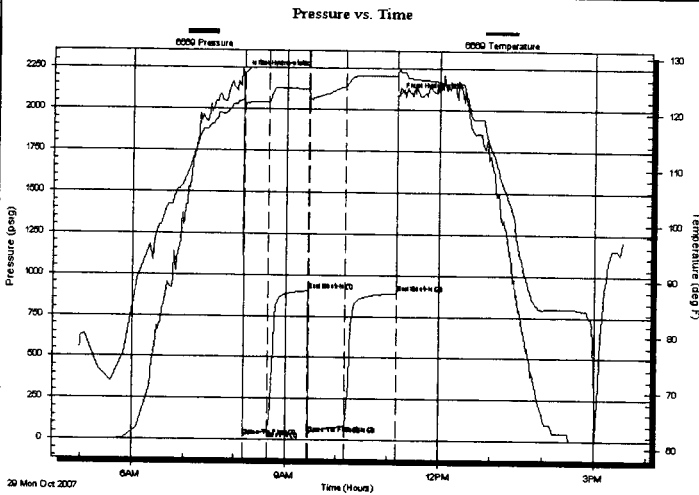
Capacity: **7000.00 psig**

Last Calib.: **2007.10.29**

Time On Btm: **2007.10.29 @ 08:09:59**

Time Off Btm: **2007.10.29 @ 11:10:59**

TEST COMMENT: IF Strong BOB in 4 min.
ISI Dead
FF Strong BOB 1/2 min.
FSI Very weak surface



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.45	122.49	Initial Hydro-static
1	18.92	120.79	Open To Flow (1)
29	51.41	121.92	Shut-In(1)
76	903.11	124.33	End Shut-In(1)
77	34.72	123.02	Open To Flow(2)
120	86.71	124.79	Shut-In(2)
181	890.87	126.77	End Shut-In(2)
181	2081.83	127.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GMCO 10%G 15%M 75%O	0.49
109.00	GMCO 20%G 20%M 60%O	1.32
0.00	3160 GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

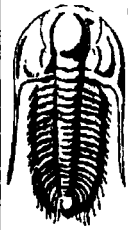
Drill Pipe:	Length: 4180.00 ft	Diameter: 3.80 inches	Volume: 58.63 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 59.23 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4315.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00			4306.00	
Packer	4.00			4310.00	20.00 Bottom Of Top Packer
Packer	5.00			4315.00	
Stubb	1.00			4316.00	
Perforations	2.00			4318.00	
Recorder	0.00	6669	Inside	4318.00	
Perforations	25.00			4343.00	
Recorder	0.00	13308	Outside	4343.00	
Bullnose	3.00			4346.00	31.00 Bottom Packers & Anchor

Total Tool Length: 51.00



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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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GMCO 10%G 15%M 75%O	0.492
109.00	GMCO 20%G 20%M 60%O	1.319
0.00	3160 GIP	0.000

Total Length: 209.00 ft Total Volume: 1.811 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

