

TRILOBITE
TESTING, INC.

CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co LLC**

125 N Market Ste 1000
Wichita KS 67202

ATTN: Curtis Covey

29 33 10 Barber KS

Tucker A-1

Start Date: 2007.07.17 @ 01:21:31

End Date: 2007.07.17 @ 11:40:16

Job Ticket #: 28353 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

NOV 06 2007

CONSERVATION DIVISION
WICHITA KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating Co LLC

125 N Market Ste 1000
Wichita KS 67202

ATM Curtis Covey

Tucker A-1

29 33 10 Barber KS

Job Ticket: 28353

DST#: 1

Test Start: 2007.07.17 @ 01:21:31

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 04:14:01

Time Test Ended: 11:40:16

Test Type: **Conventional Bottom Hole**

Tester: **Travy Cushenbery**

Unit No: **30**

Interval: **4540.00 ft (KB) To 4604.00 ft (KB) (TVD)**

Total Depth: **4604.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **1484.00 ft (KB)**

1474.00 ft (CF)

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

Serial #: 6668 **Inside**

Press@RunDepth: **124.60 psig @ 4540.00 ft (KB)**

Start Date: **2007.07.17**

End Date: **2007.07.17**

Start Time: **01:21:36**

End Time: **11:40:16**

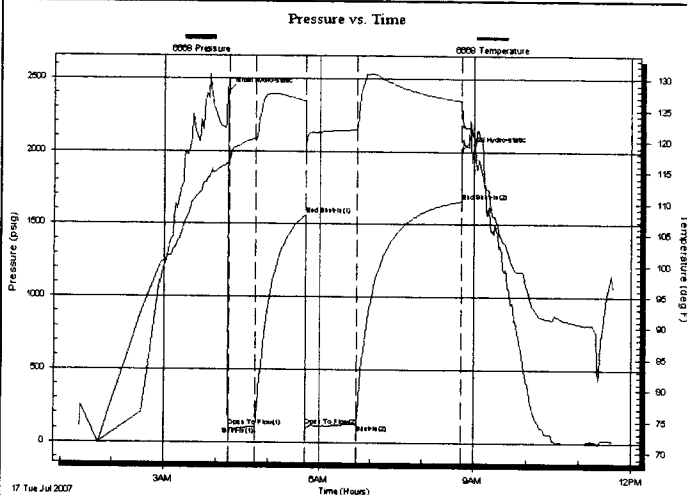
Capacity: **7000.00 psig**

Last Calib.: **2007.07.18**

Time On Btm: **2007.07.17 @ 04:12:46**

Time Off Btm: **2007.07.17 @ 08:45:45**

TEST COMMENT: IF Strong blow BOB in 1 min.
ISI Bled off No blow back
FF Strong blow BOB immediately GTS in 5 mins. See gas report
FSI Bled off No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2409.50	116.32	Initial Hydro-static
2	105.99	116.39	Open To Flow (1)
32	101.98	120.33	Shut-In(1)
91	1563.21	126.42	End Shut-In(1)
91	109.27	119.13	Open To Flow (2)
151	124.60	121.82	Shut-In(2)
273	1658.91	126.51	End Shut-In(2)
273	2011.64	126.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Gasy Mud 2%G 98%M	0.30
62.00	Gasy Oil cut Mud 2%G 4%O 94%M	0.30
62.00	Gasy Oil cut Mud 20%G 6%O 74%M	0.83
62.00	GOcWM 14%G 10%O 16%W 60%M	0.87

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	7.70
Last Gas Rate	0.13	2.00	6.51
Max. Gas Rate	0.13	5.00	7.70



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TOOL DIAGRAM

Woolsey Operating Co LLC

125 N Market Ste 1000
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Job Ticket: 28353

DST#: 1

Test Start: 2007.07.17 @ 01:21:31

Tool Information

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.80 inches	Volume: 61.69 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:	20000.00 lb
Drill Collar:	Length: 128.00 ft	Diameter: 2.25 inches	Volume: 0.63 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	62.32 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4540.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	92.00 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			4517.00	
Hydraulic tool	5.00			4522.00	
Jars	5.00			4527.00	
Safety Joint	3.00			4530.00	
Packer	5.00			4535.00	28.00 Bottom Of Top Packer
Packer	5.00			4540.00	
Recorder	0.00	6668	Inside	4540.00	
Perforations	6.00			4546.00	
Change Over Sub	1.00			4547.00	
Drill Pipe	32.00			4579.00	
Change Over Sub	1.00			4580.00	
Perforations	21.00			4601.00	
Recorder	0.00	13266	Outside	4601.00	
Bullnose	3.00			4604.00	64.00 Bottom Packers & Anchor

Total Tool Length: 92.00



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FLUID SUMMARY

Woolsey Operating Co LLC

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DST#: 1

ATTN: Curtis Covey

Test Start: 2007.07.17 @ 01:21:31

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 7.99 in³

Resistivity: 0.30 ohm.m

Salinity: 11000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity: 19000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Gasy Mud 2%G 98%M	0.305
62.00	Gasy Oil cut Mud 2%G 4%O 94%M	0.305
62.00	Gasy Oil cut Mud 20%G 6%O 74%M	0.833
62.00	GOcWM 14%G 10%O 16%W 60%M	0.870

Total Length: 248.00 ft

Total Volume: 2.313 bbl

Num Fluid Samples: 0

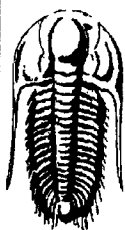
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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ATTN: Curtis Covey

Test Start: 2007.07.17 @ 01:21:31

Gas Rates Information

Temperature: 2 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.13	5.00	7.70
2	5	0.13	5.00	7.70
2	10	0.13	4.00	7.30
2	15	0.13	2.00	6.51

198330

Serial #: 6668 Inside Woolsey Operating Co LLC 29 33 10 Barber KS DST Test Number: 1

