

API # 15-171-20617-00-00



DRILL STEM TEST REPORT

Prepared For: **Red Oak Energy Inc**

PO Box 783140
Wichita KS 67278-3140

ATTN: Scott Banks

4-20-34 Scott, Ks

Harkness #1-4

Start Date: 2006.02.17 @ 07:03:25

End Date: 2006.02.17 @ 15:10:34

Job Ticket #: 23260 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.**

DRILL STEM TEST REPORT

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DST#: 1

Test Start: 2006.02.17 @ 07:03:25

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:39:50

Time Test Ended: 15:10:34

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: **4520.00 ft (KB) To 4573.00 ft (KB) (TVD)**

Total Depth: 4573.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3051.00 ft (KB)

3041.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6667

Inside

Press@RunDepth: 225.24 psig @ 4521.00 ft (KB)

Start Date: 2006.02.17

End Date:

2006.02.17

Capacity: 7000.00 psig

Last Calib.: 2006.02.17

Start Time: 07:03:25

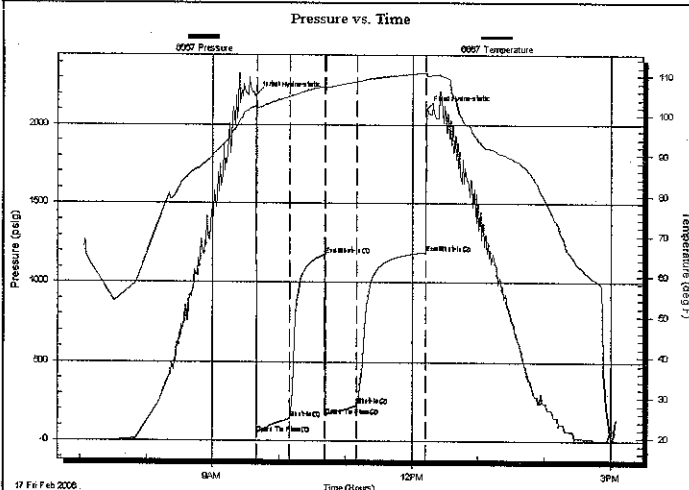
End Time:

15:05:34

Time On Btm: 2006.02.17 @ 09:38:50

Time Off Btm: 2006.02.17 @ 12:12:35

TEST COMMENT: 1" in. @ open built to 9 1/2" in.
No return
1/4" in. @ open built to B.O.B. in 28 min.
Bled off for 2 min. return blow in 3 min. built to 1 3/4" in.



PRESSURE SUMMARY

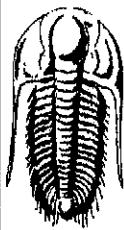
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.79	102.45	Initial Hydro-static
1	42.81	101.74	Open To Flow (1)
31	140.58	104.89	Shut-In (1)
62	1174.90	107.32	End Shut-In (1)
64	159.65	107.04	Open To Flow (2)
92	225.24	108.49	Shut-In (2)
154	1190.89	110.80	End Shut-In (2)
154	2100.10	110.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
103.00	m c g o 25m 20g 55o	0.51
372.00	s m c g o 10m 20g 70o	1.83

Gas Rates

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

Red Oak Energy Inc

Harkness #1-4

PO Box 783140
Wichita KS 67278-3140

4-20-34 Scott, Ks

Job Ticket: 23260

DST#: 1

ATTN: Scott Banks

Test Start: 2006.02.17 @ 07:03:25

Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 125000.0 lb
			Total Volume: 58.37 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	4520.00 ft			Final 102000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

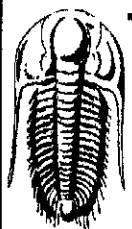
Tool Comments:

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		4494.00	
Shut In Tool	5.00		4499.00	
Hydraulic tool	5.00		4504.00	
Jars	5.00		4509.00	
Safety Joint	2.00		4511.00	
Packer	5.00	Fluid	4516.00	27.00 Bottom Of Top Packer
Packer	4.00		4520.00	
Stubb	1.00		4521.00	
Recorder	0.00	6667 Inside	4521.00	
Perforations	14.00		4535.00	
Change Over Sub	1.00		4536.00	
Drill Pipe	31.00		4567.00	
Change Over Sub	1.00		4568.00	
Recorder	0.00	11058 Inside	4568.00	
Bullnose	5.00		4573.00	53.00 Bottom Packers & Anchor

Total Tool Length: 80.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
103.00	m c g o 25m 20g 55o	0.507
372.00	s m c g o 10m 20g 70o	1.829

Total Length: 475.00 ft

Total Volume: 2.336 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

