



DRILL STEM TEST REPORT

Prepared For: **Lotus Operation Co.**

100 S.Main Ste.520
Wichita, KS 67202

ATTN: Tim Hellman

16-23s-7w Reno KS

Beacher#1

Start Date: 2001.07.10 @ 07:45:00

End Date: 2001.07.10 @ 15:50:45

Job Ticket #: 15442 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lotus Operation Co.

100 S. Main Ste. 520
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ATTN: Tim Hellman

Beacher#1

16-23s-7w Reno KS

Job Ticket: 15442

DST#: 1

Test Start: 2001.07.10 @ 07:45:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:44:30

Time Test Ended: 15:50:45

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3531.00 ft (KB) To 3612.00 ft (KB) (TVD)**

Total Depth: 3612.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1603.00 ft (KB)

1598.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3227** Inside

Press@RunDepth: 417.31 psig @ 3536.01 ft (KB)

Start Date: 2001.07.10 End Date: 2001.07.10

Start Time: 07:45:02 End Time: 15:50:45

Capacity: 7000.00 psig

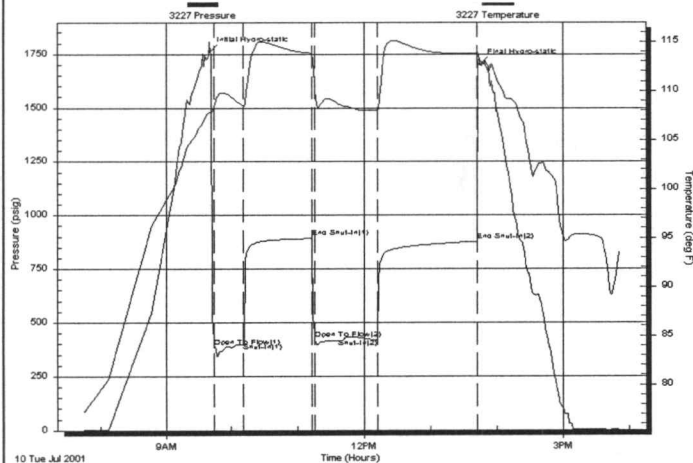
Last Calib.: 2001.07.10

Time On Btm: 2001.07.10 @ 09:40:45

Time Off Btm: 2001.07.10 @ 13:45:15

TEST COMMENT: IF-Strong Gas to Surface in 2 min.
FF-Strong

Pressure vs. Time



PRESSURE SUMMARY

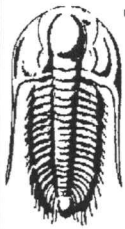
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.90	107.86	Initial Hydro-static
4	384.71	108.53	Open To Flow (1)
30	401.13	108.46	Shut-In(1)
93	892.90	113.82	End Shut-In(1)
95	418.86	110.00	Open To Flow (2)
151	417.31	108.04	Shut-In(2)
241	877.14	113.83	End Shut-In(2)
245	1702.06	113.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Mud	2.81

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	55.00	1084.02
Last Gas Rate	0.75	110.00	1943.11
Max. Gas Rate	0.75	110.00	1943.11



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TOOL DIAGRAM

Lotus Operation Co.

Beacher#1

100 S.Main Ste.520
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16-23s-7w Reno KS

Job Ticket: 15442

DST#: 1

ATTN: Tim Hellman

Test Start: 2001.07.10 @ 07:45:00

Tool Information

Drill Pipe:	Length: 3533.00 ft	Diameter: 3.80 inches	Volume: 49.56 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 49.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3531.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.02 ft			
Tool Length:	103.02 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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C.O. Sub	1.00			3510.00	
S.I. Tool	5.00			3515.00	
Safety Joint	2.00			3517.00	
HMV	5.00			3522.00	
Packer	4.00			3526.00	22.00 Bottom Of Top Packer
Packer	5.00			3531.00	
Stubb	1.00			3532.00	
Perforations	3.00			3535.00	
C.O. Sub	1.00			3536.00	
Recorder	0.01	3227	Inside	3536.01	
Blank Spacing	62.00			3598.01	
C.O. Sub	1.00			3599.01	
Perforations	10.00			3609.01	
Recorder	0.01	13308	Outside	3609.02	
Bullnose	3.00			3612.02	81.02 Bottom Packers & Anchor

Total Tool Length: 103.02



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FLUID SUMMARY

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Beacher#1

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Wichita, KS 67202

16-23s-7w Reno KS

Job Ticket: 15442

DST#: 1

ATTN: Tim Hellman

Test Start: 2001.07.10 @ 07:45:00

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Mud	2.805

Total Length: 200.00 ft

Total Volume: 2.805 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Lotus Operation Co.

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16-23s-7w Reno KS

Job Ticket: 15442

DST#: 1

ATTN: Tim Hellman

Test Start: 2001.07.10 @ 07:45:00

Gas Rates Information

Temperature: 59 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)
1	5	0.75	55.00	1084.02
1	10	0.75	88.00	1599.47
1	15	0.75	96.00	1724.43
1	20	0.75	100.00	1786.91
1	25	0.75	100.00	1786.91
1	30	0.75	100.00	1786.91
2	10	0.75	100.00	1786.91
2	20	0.75	105.00	1865.01
2	30	0.75	105.00	1865.01
2	40	0.75	110.00	1943.11
2	50	0.75	110.00	1943.11
2	60	0.75	110.00	1943.11

Serial #: 3227

Inside

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DST Test Number: 1

Pressure vs. Time

