

IND

Lotus Operating Company, LLC

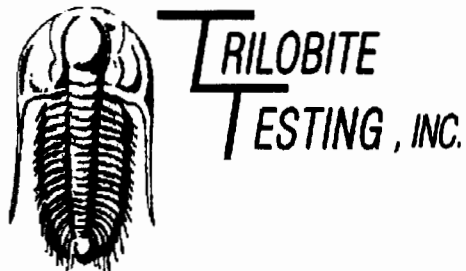
Hirt C # 1

22-29s-15w Pratt KS

DST # 1

Simpson Dolomite

2009.01.04



DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Company, LLC**

100 S. Main Ste. 420
Wichita, Kansas 67202

~~CONFIDENTIAL~~
APR 14 2009

ATTN: Tim Hellman

22-29s-15w Pratt KS

Hirt C # 1

Start Date: 2009.01.04 @ 11:07:37

End Date: 2009.01.04 @ 23:14:07

Job Ticket #: 32980 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lotus Operating Company, LLC

Hirt C # 1

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Wichita, Kansas 67202

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Job Ticket: 32980

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ATTN: Tim Hellman

Test Start: 2009.01.04 @ 11:07:37

GENERAL INFORMATION:

Formation: **Simpson Dolomite**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:47:37

Time Test Ended: 23:14:07

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Interval: **4700.00 ft (KB) To 4740.00 ft (KB) (TVD)**

Reference Elevations: 1964.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

1951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8367 Inside

Press@RunDepth: 729.57 psig @ 4701.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.01.04

End Date:

2009.01.04

Last Calib.: 2009.01.04

Start Time: 11:07:38

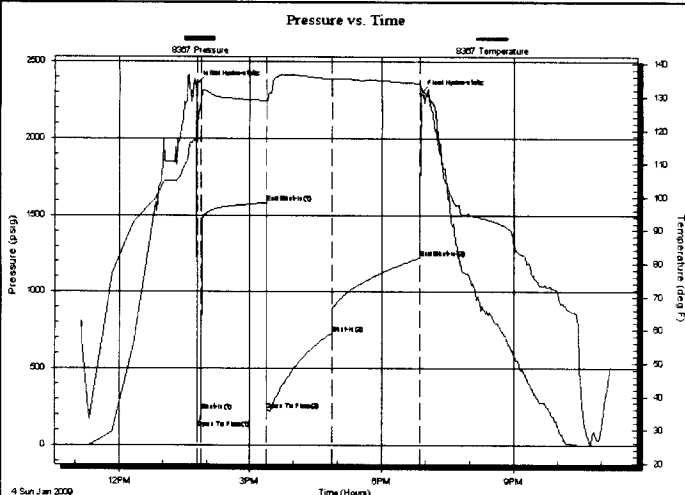
End Time:

23:14:07

Time On Btm: 2009.01.04 @ 13:46:07

Time Off Btm: 2009.01.04 @ 18:52:37

TEST COMMENT: IF: Strong blow . B.O.B. in 90 secs.
IS: Weak to fair blow . Built to 11 1/2".
FF: Strong blow . B.O.B. in 2 mins. (see gas flow report.)
FS: Strong blow . B.O.B. in 8 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2352.15	116.88	Initial Hydro-static
2	108.79	117.93	Open To Flow (1)
7	221.31	129.13	Shut-In (1)
96	1580.34	128.81	End Shut-In (1)
97	225.21	128.51	Open To Flow (2)
186	729.57	135.44	Shut-In (2)
306	1223.37	134.02	End Shut-In (2)
307	2291.33	133.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGO&MCW 5%g 15%o 60%w 20%m	0.30
205.00	SG&WCMD 10%g 8%w 55%o 27%m	1.01
270.00	G&HMCO 10%g 50%o 40%m	1.33
1795.00	Clean Gsy Oil 10%g 90%o	25.18
0.00	2360' GIP	0.00
0.00	Grav. = 31 API @ 50 deg.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.43
Last Gas Rate	0.25	1.75	25.62
Max. Gas Rate	0.25	1.75	25.62



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TOOL DIAGRAM

Lotus Operating Company, LLC

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Job Ticket: 32980

DST#: 1

ATTN: Tim Hellman

Test Start: 2009.01.04 @ 11:07:37

Tool Information

Drill Pipe:	Length: 4155.00 ft	Diameter: 3.80 inches	Volume: 58.28 bbl	Tool Weight:	2200.00 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: 535.00 ft	Diameter: 2.25 inches	Volume: 2.63 bbl	Weight to Pull Loose:	120000.0 lb
		Total Volume:	60.91 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	87000.00 lb
Depth to Top Packer:	4700.00 ft			Final	92000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4682.00	
Hydraulic tool	5.00			4687.00	
Safety Joint	3.00			4690.00	
Packer	5.00			4695.00	23.00 Bottom Of Top Packer
Packer	5.00			4700.00	
Stubb	1.00			4701.00	
Recorder	0.00	6798	Inside	4701.00	
Recorder	0.00	8367	Inside	4701.00	
Perforations	36.00			4737.00	
Bullnose	3.00			4740.00	40.00 Bottom Packers & Anchor
Total Tool Length:	63.00				



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FLUID SUMMARY

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Job Ticket: 32980

DST#: 1

ATTN: Tim Hellman

Test Start: 2009.01.04 @ 11:07:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SGO&MCW 5%g 15%o 60%w 20%m	0.295
205.00	SG&WCMD 10%g 8%w 55%o 27%m	1.008
270.00	G&HMC 10%g 50%o 40%m	1.328
1795.00	Clean Gsy Oil 10%g 90%o	25.179
0.00	2360' GIP	0.000
0.00	Grav. = 31 API @ 50 deg.	0.000

Total Length: 2330.00 ft

Total Volume: 27.810 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: JA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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GAS RATES

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DST#: 1

Test Start: 2009.01.04 @ 11:07:37

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)
2	50	0.25	1.00	24.43
2	50	0.25	1.00	24.43
2	60	0.25	1.50	25.22
2	70	0.25	1.75	25.62
2	90	0.25	1.75	25.62

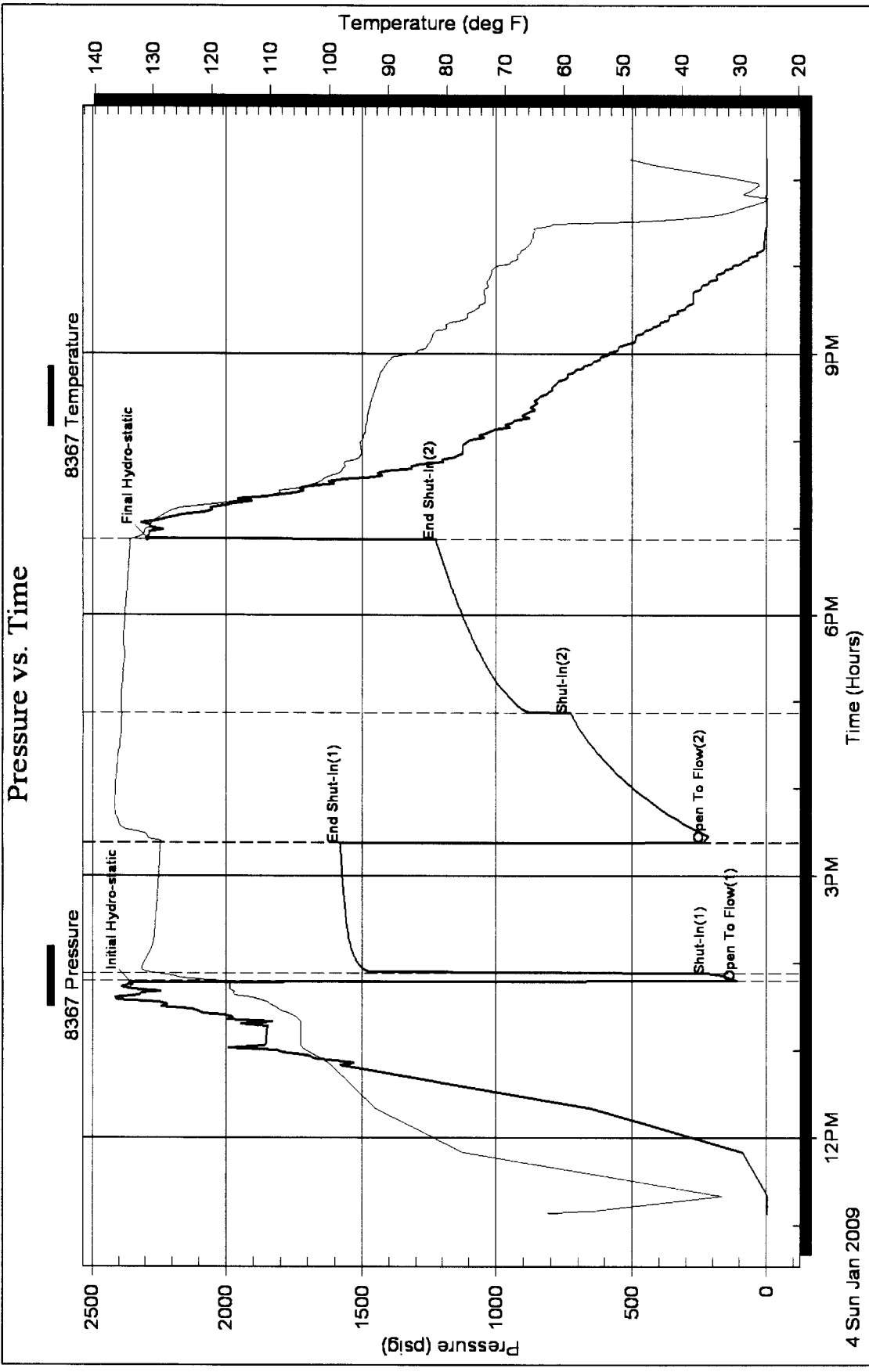
DST Test Number: 1

22-29s-15w Pratt KS

Lotus Operating Company, LLC

Inside

Serial #: 8367



Ref. No: 32980

Trilobite Testing, Inc