



DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

9 29 15 Pratt KS

Smith A-1

Start Date: 2007.06.14 @ 18:30:28

End Date: 2007.06.15 @ 03:47:58

Job Ticket #: 27944 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 Operating Co LLC

Smith A-1

100 S Main Ste 420
Wichita KS 67202

9 29 15 Pratt KS

Job Ticket: 27944

DST#: 1

ATTN: Tim Hellman

Test Start: 2007.06.14 @ 18:30:28

GENERAL INFORMATION:

Formation: **Lancing**

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

Time Tool Opened: 20:54:13

Time Test Ended: 03:47:58

Interval: **4298.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Total Depth: **4410.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Travy Cushenbery**

Unit No: **30**

Reference Elevations: **1999.00 ft (KB)**

1989.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668

Inside

Press@RunDepth: **69.41 psig @ 4298.00 ft (KB)**

Start Date: **2007.06.14**

End Date:

2007.06.15

Capacity: **7000.00 psig**

Last Calib.: **2007.06.15**

Start Time: **18:30:33**

End Time:

03:47:58

Time On Btm: **2007.06.14 @ 20:52:28**

Time Off Btm: **2007.06.15 @ 00:54:42**

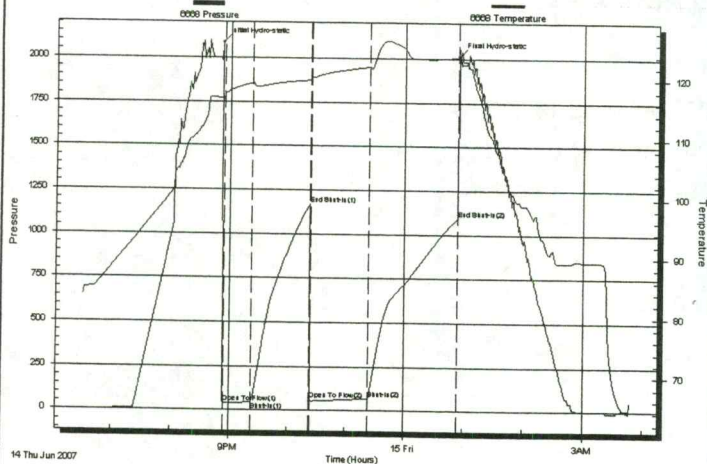
TEST COMMENT: **IF Fair blow BOB in 5 mins.**

ISI Bled off No blow back

FF Strong blow BOB immediately

FSI Bled off No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.56	116.84	Initial Hydro-static
2	39.28	117.33	Open To Flow (1)
31	46.00	119.33	Shut-In (1)
91	1166.72	119.84	End Shut-In (1)
91	63.24	120.00	Open To Flow (2)
152	69.41	122.17	Shut-In (2)
242	1091.27	123.76	End Shut-In (2)
243	2014.00	125.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy Mud 2%G 98%M	0.84
60.00	Gassy Mud 4%G 96%M	0.84

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co LLC

Smith A-1

100 S Main Ste 420
Wichita KS 67202

9 29 15 Pratt KS

Job Ticket: 27944

DST#: 1

ATTN: Tim Hellman

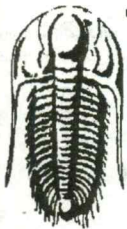
Test Start: 2007.06.14 @ 18:30:28

Tool Information

Drill Pipe:	Length: 4280.00 ft	Diameter: 3.80 inches	Volume: 60.04 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 60.04 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4298.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	135.00 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			4280.00	
Hydraulic tool	5.00			4285.00	
Safety Joint	3.00			4288.00	
Packer	5.00			4293.00	23.00 Bottom Of Top Packer
Packer	5.00			4298.00	
Recorder	0.00	6668	Inside	4298.00	
Perforations	10.00			4308.00	
Change Over Sub	1.00			4309.00	
Drill Pipe	94.00			4403.00	
Change Over Sub	1.00			4404.00	
Perforations	3.00			4407.00	
Recorder	0.00	13266	Outside	4407.00	
Bullnose	3.00			4410.00	112.00 Bottom Packers & Anchor

Total Tool Length: 135.00



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FLUID SUMMARY

Lotus Operating Co LLC

Smith A-1

100 S Main Ste 420
Wichita KS 67202

9 29 15 Pratt KS

Job Ticket: 27944

DST#: 1

ATTN: Tim Hellman

Test Start: 2007.06.14 @ 18:30:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 12.78 in³

Resistivity: ohm.m

Salinity: 7500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gassy Mud 2%G 98%M	0.842
60.00	Gassy Mud 4%G 96%M	0.842

Total Length: 120.00 ft

Total Volume: 1.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

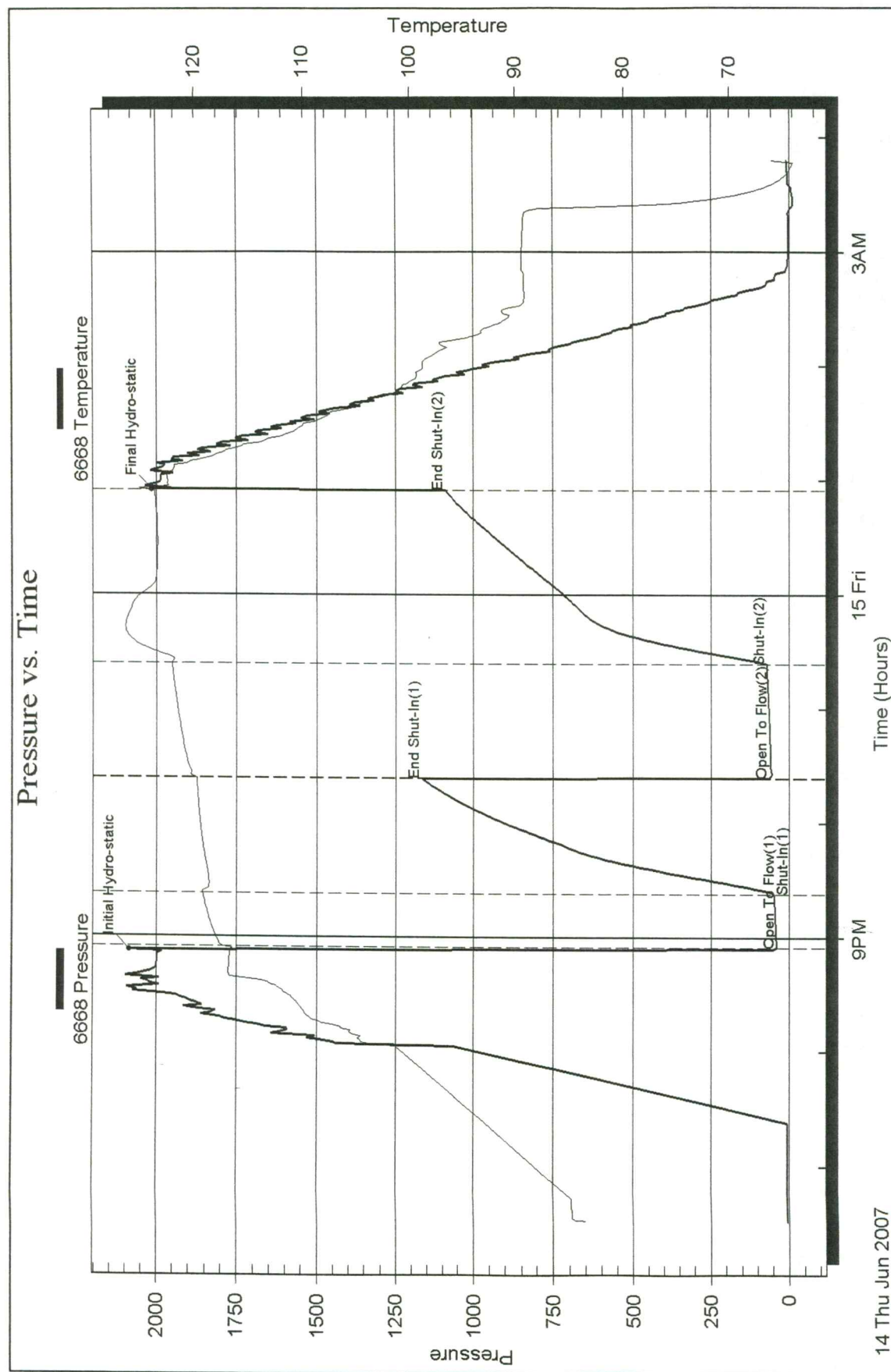
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

9 29 15 Pratt KS

Smith A-1

Start Date: 2007.06.15 @ 02:13:36

End Date: 2007.06.15 @ 12:26:36

Job Ticket #: 27945 DST #: 2

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

Lotus Operating Co LLC

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

Smith A-1

9 29 15 Pratt KS

Job Ticket: 27945

DST#: 2

Test Start: 2007.06.15 @ 02:13:36

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:27:21

Time Test Ended: 12:26:36

Test Type: Conventional Bottom Hole

Tester: Travy Cushenbery

Unit No: 30

Interval: **4415.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Total Depth: 4515.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1999.00 ft (KB)

1989.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668 Inside

Press@RunDepth: 84.10 psig @ 4415.00 ft (KB)

Start Date: 2007.06.15

End Date:

2007.06.15

Capacity: 7000.00 psig

Last Calib.: 2007.06.16

Start Time: 02:13:41

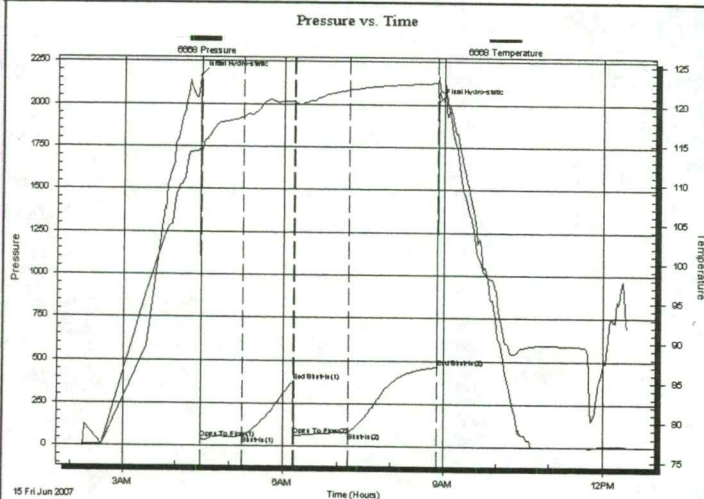
End Time:

12:26:36

Time On Btm: 2007.06.15 @ 04:27:06

Time Off Btm: 2007.06.15 @ 08:53:35

TEST COMMENT: IF Fair blow BOB in 8 mins.
FSI Bled off No blow back
FF Strong blow BOB in 45 secs.
FSI Bled off No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.77	114.23	Initial Hydro-static
1	42.62	114.14	Open To Flow (1)
48	57.81	118.47	Shut-In(1)
104	381.68	120.57	End Shut-In(1)
105	66.11	120.49	Open To Flow(2)
165	84.10	122.01	Shut-In(2)
267	465.37	122.93	End Shut-In(2)
267	2014.89	123.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOcM 2%G 8%O 90%M	0.42
60.00	GOcM 5%G 25%O 70%M	0.84
60.00	GOcWM 10%G 10%O 40%V 40%M	0.84

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co LLC

Smith A-1

100 S Main Ste 420
Wichita KS 67202

9 29 15 Pratt KS

Job Ticket: 27945

DST#: 2

ATTN: Tim Hellman

Test Start: 2007.06.15 @ 02:13:36

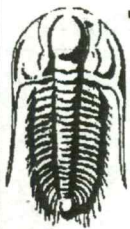
Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	61.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4415.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	123.00 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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Shut In Tool	5.00			4397.00	
Hydraulic tool	5.00			4402.00	
Safety Joint	3.00			4405.00	
Packer	5.00			4410.00	23.00 Bottom Of Top Packer
Packer	5.00			4415.00	
Recorder	0.00	6668	Inside	4415.00	
Perforations	16.00			4431.00	
Change Over Sub	1.00			4432.00	
Drill Pipe	62.00			4494.00	
Change Over Sub	1.00			4495.00	
Perforations	17.00			4512.00	
Recorder	0.00	13266	Outside	4512.00	
Bullnose	3.00			4515.00	100.00 Bottom Packers & Anchor

Total Tool Length: 123.00



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Job Ticket: 27945

DST#: 2

ATTN: Tim Hellman

Test Start: 2007.06.15 @ 02:13:36

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 42.00 sec/qt

Water Loss: 14.78 in³

Resistivity: 0.35 ohm.m

Salinity: 8000.00 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:

14000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOcM 2%G 8%O 90%M	0.421
60.00	GOcM 5%G 25%O 70%M	0.842
60.00	GOcWM 10%G 10%O 40%W 40%M	0.842

Total Length: 150.00 ft

Total Volume: 2.105 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

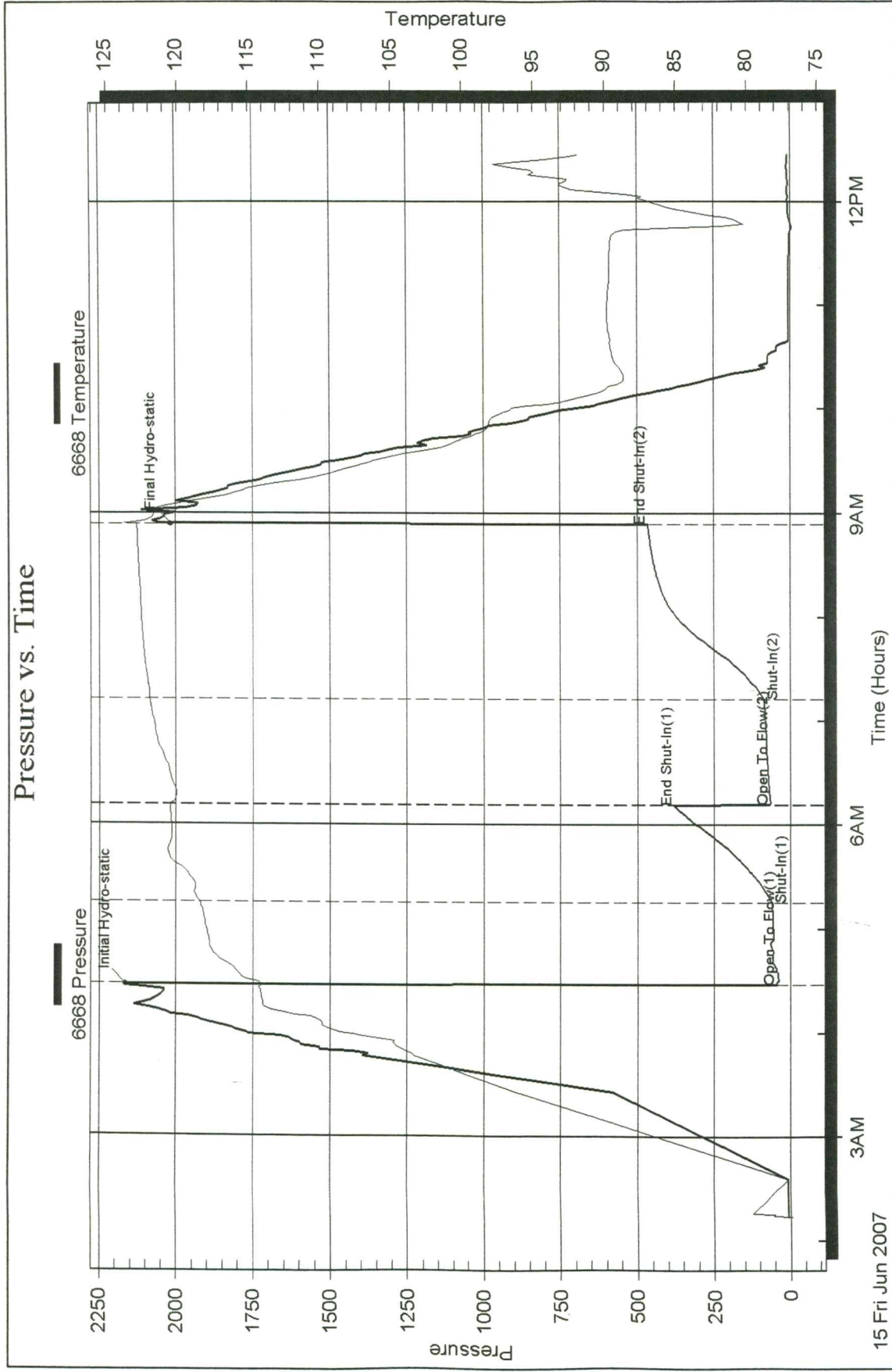
Serial #:

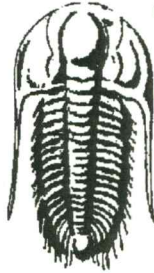
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Prepared For: **Lotus Operating Co LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

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Smith A-1

Start Date: 2007.06.16 @ 20:29:24

End Date: 2007.06.17 @ 05:57:39

Job Ticket #: 27946 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Lotus Operating Co LLC

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

Smith A-1

9 29 15 Pratt KS

Job Ticket: 27946

DST#: 3

Test Start: 2007.06.16 @ 20:29:24

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:37:39

Time Test Ended: 05:57:39

Interval: **4526.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Total Depth: 4565.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Travy Cushenbery

Unit No: 30

Reference Elevations: 1999.00 ft (KB)

1989.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6668

Inside

Press@RunDepth: 21.51 psig @ 4526.00 ft (KB)

Start Date: 2007.06.16

End Date:

2007.06.17

Start Time: 20:29:29

End Time:

05:57:39

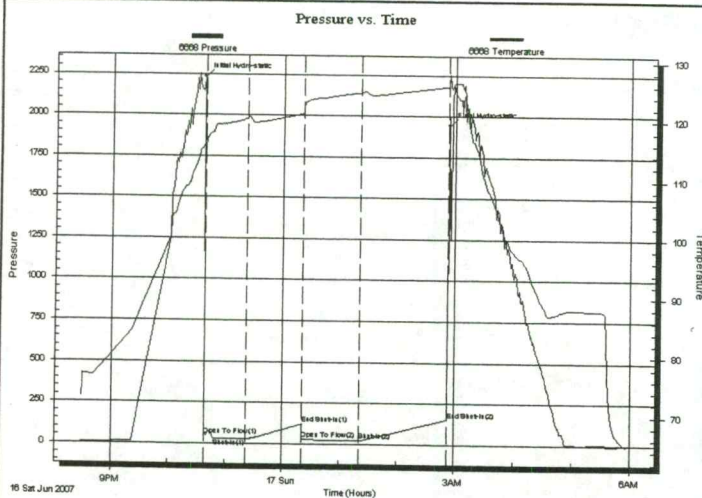
Capacity: 7000.00 psig

Last Calib.: 2007.06.17

Time On Btm: 2007.06.16 @ 22:36:39

Time Off Btm: 2007.06.17 @ 02:53:08

TEST COMMENT: IF Fair blow BOB in 45 mins.
ISI Bled off No blow back
FF Fair blow Building to 10 " in 60 mins.
FSI Bled off No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.88	115.32	Initial Hydro-static
1	45.90	115.21	Open To Flow (1)
45	26.77	120.25	Shut-In (1)
105	120.91	121.15	End Shut-In (1)
105	28.97	122.05	Open To Flow (2)
165	21.51	124.74	Shut-In (2)
256	152.95	125.86	End Shut-In (2)
257	1943.05	127.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%M	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co LLC

Smith A-1

100 S Main Ste 420
Wichita KS 67202

9 29 15 Pratt KS

Job Ticket: 27946

DST#: 3

ATTN: Tim Hellman

Test Start: 2007.06.16 @ 20:29:24

Tool Information

Drill Pipe:	Length: 4530.00 ft	Diameter: 3.80 inches	Volume: 63.54 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 120000.0 lb
		Total Volume:	63.54 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4526.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	62.00 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			4508.00	
Hydraulic tool	5.00			4513.00	
Safety Joint	3.00			4516.00	
Packer	5.00			4521.00	23.00 Bottom Of Top Packer
Packer	5.00			4526.00	
Recorder	0.00	6668	Inside	4526.00	
Perforations	36.00			4562.00	
Recorder	0.00	13266	Outside	4562.00	
Bullnose	3.00			4565.00	39.00 Bottom Packers & Anchor
Total Tool Length:		62.00			



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Wichita KS 67202

9 29 15 Pratt KS

Job Ticket: 27946

DST#: 3

ATTN: Tim Hellman

Test Start: 2007.06.16 @ 20:29:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 10.36 in³

Resistivity: ohm.m

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100%M	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

