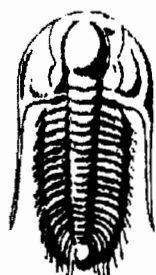


IND



KGS LIBRARY
TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co.**

100 S.Main ,Ste.420
Wichita Ks.67202

ATTN: Tim Hellman

19-29s-15w Pratt KS

McFall#1

Start Date: 2008.07.29 @ 23:53:54

End Date: 2008.07.30 @ 08:04:54

Job Ticket #: 31680 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

CONFIDENTIAL

Lotus Operating Co.

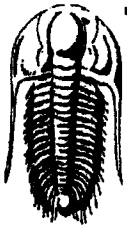
McFall#1

19-29s-15w Pratt KS

DST # 1

Altamon/Ft.Scott

2008.07.29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lotus Operating Co.

McFall#1

100 S.Main ,Ste.420
Wichita Ks.67202

19-29s-15w Pratt KS

Job Ticket: 31680

DST#: 1

ATTN: Tim Hellman

Test Start: 2008.07.29 @ 23:53:54

GENERAL INFORMATION:

Formation: **Altamont/Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:29:24

Time Test Ended: 08:04:54

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4556.00 ft (KB) To 4630.00 ft (KB) (TVD)**

Reference Elevations: 2027.00 ft (KB)

Total Depth: 4630.00 ft (KB) (TVD)

2014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: **8167**

Inside

Press@RunDepth: 44.30 psig @ 4557.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.07.29

End Date:

2008.07.30

Last Calib.: 2008.07.30

Start Time: 23:53:59

End Time:

08:04:53

Time On Btm: 2008.07.30 @ 02:28:54

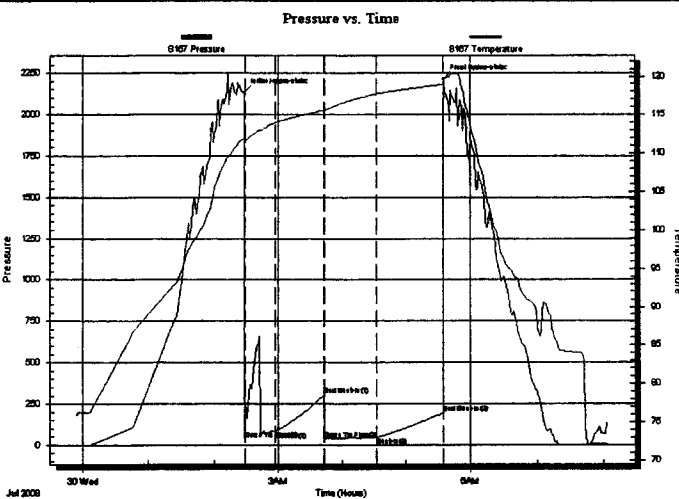
Time Off Btm: 2008.07.30 @ 05:34:53

TEST COMMENT: IF:Weak blow 1/4 - 1/2"

IS:No blow

FF:Fair blow 6 - 13"

FS:No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.03	111.91	Initial Hydro-static
1	35.01	111.13	Open To Flow (1)
29	81.74	114.01	Shut-in(1)
74	301.47	115.63	End Shut-in(1)
75	34.10	115.61	Open To Flow (2)
124	44.30	117.71	Shut-in(2)
186	194.40	118.98	End Shut-in(2)
186	2215.58	119.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 20%g 20%o 60%m	0.30
0.00	250 ft.of GIP	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co.

McFall#1

100 S.Main ,Ste.420
Wichita Ks.67202

19-29s-15w Pratt KS

Job Ticket: 31680

DST#: 1

ATTN: Tim Hellman

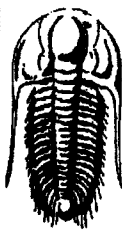
Test Start: 2008.07.29 @ 23:53:54

Tool Information

Drill Pipe:	Length: 4310.00 ft	Diameter: 3.80 inches	Volume: 60.46 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	88000.00 lb
		Total Volume: 61.64 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4556.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	97.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4534.00	
Shut In Tool	5.00			4539.00	
Hydraulic tool	5.00			4544.00	
Safety Joint	3.00			4547.00	
Packer	4.00			4551.00	23.00 Bottom Of Top Packer
Packer	5.00			4556.00	
Stubb	1.00			4557.00	
Recorder	0.00	8167	Inside	4557.00	
Recorder	0.00	8357	Inside	4557.00	
Perforations	4.00			4561.00	
Change Over Sub	1.00			4562.00	
Blank Spacing	62.00			4624.00	
Change Over Sub	1.00			4625.00	
Bullnose	5.00			4630.00	74.00 Bottom Packers & Anchor

Total Tool Length: 97.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co.

McFall#1

100 S.Main ,Ste.420
Wichita Ks.67202

19-29s-15w Pratt KS

Job Ticket: 31680

DST#: 1

ATTN: Tim Hellman

Test Start: 2008.07.29 @ 23:53:54

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:

3500ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GOCM 20%g 20%o 60%m	0.305
0.00	250 ft.of GIP	0.000

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 15#/bbl.

Serial #: 8167

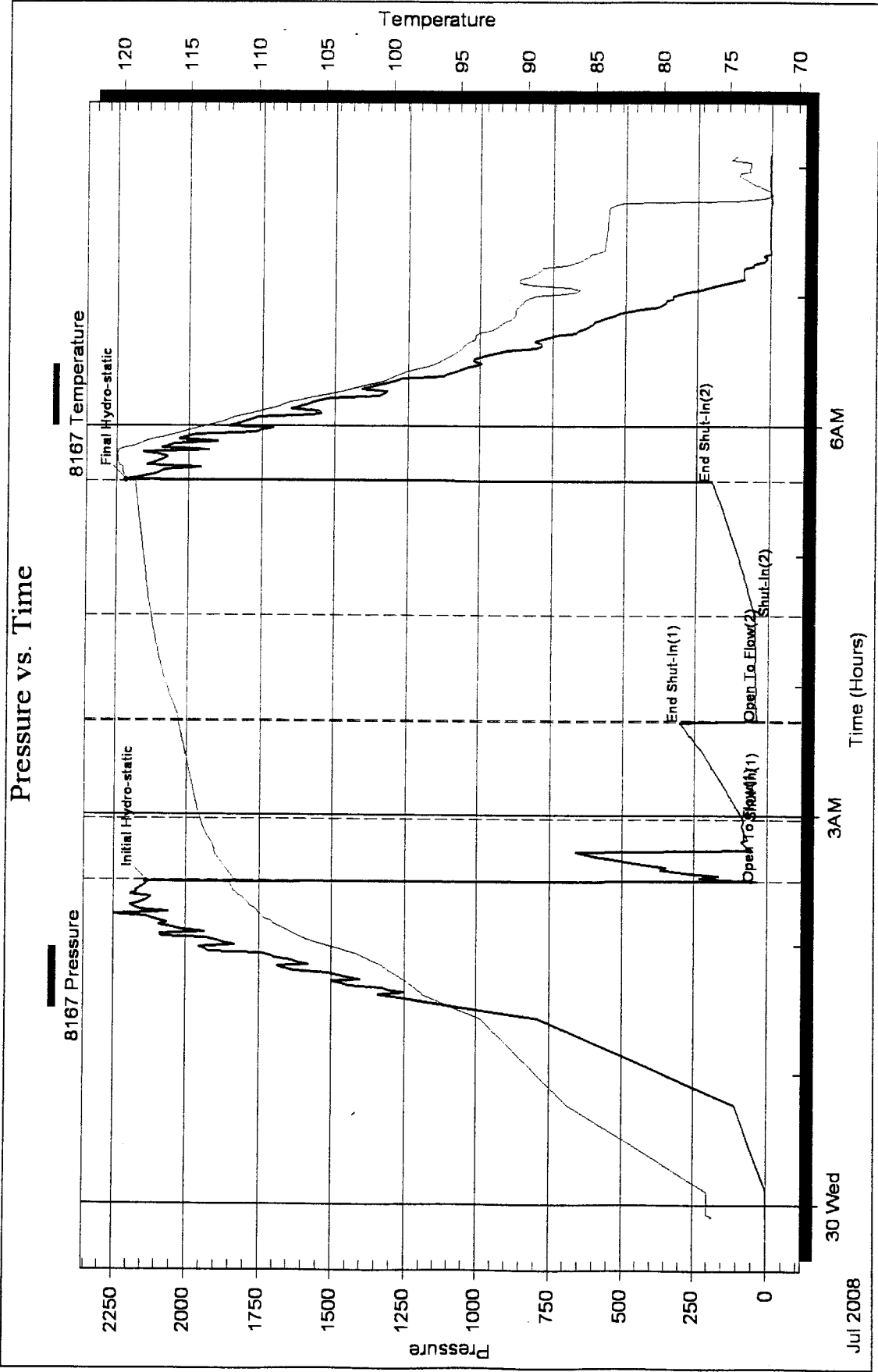
Inside

Lotus Operating Co.

19-29s-15w Pratt KS

DST Test Number: 1

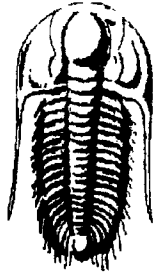
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 31680

Printed: 2008.08.08 @ 11:54:12 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co.**

100 S.Main ,Ste.420
Wichita Ks.67202

ATTN: Tim Hellman

19-29s-15w Pratt KS

McFall#1

Start Date: 2008.07.30 @ 20:32:16

End Date: 2008.07.31 @ 06:12:31

Job Ticket #: 31681 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Lotus Operating Co.

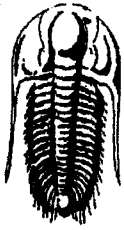
McFall#1

19-29s-15w Pratt KS

DST # 2

Miss.

2008.07.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lotus Operating Co.

McFall#1

100 S.Main ,Ste.420
Wichita Ks.67202

19-29s-15w Pratt KS

ATTN: Tim Hellman

Job Ticket: 31681

DST#: 2

Test Start: 2008.07.30 @ 20:32:16

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:31

Time Test Ended: 06:12:31

Interval: **4681.00 ft (KB) To 4720.00 ft (KB) (TVD)**

Total Depth: 4720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Reference Elevations: 2027.00 ft (KB)

2014.00 ft (CF)

KB to GRVCF: 13.00 ft

Serial #: 8167

Inside

Press@RunDepth: 85.37 psig @ 4682.00 ft (KB)

Start Date: 2008.07.30

End Date:

2008.07.31

Start Time: 20:32:21

End Time:

06:12:31

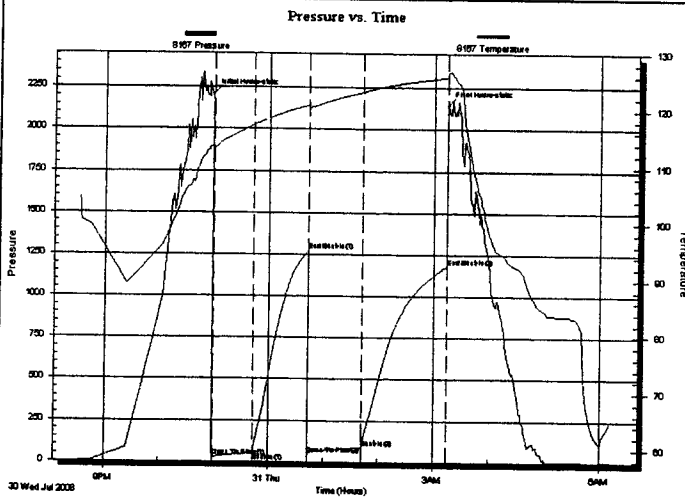
Capacity: 7000.00 psig

Last Calib.: 2008.07.31

Time On Btm: 2008.07.30 @ 22:58:31

Time Off Btm: 2008.07.31 @ 03:15:00

TEST COMMENT: IF:Strong blow BOB in 7 mins
IS:No blow
FF:Strong blow BOB in 90 secs
FS:Weak blow 1/2 - 1 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.65	113.65	Initial Hydro-static
1	28.75	113.18	Open To Flow (1)
44	50.82	117.41	Shut-In(1)
104	1271.84	120.85	End Shut-In(1)
105	48.15	120.52	Open To Flow (2)
164	85.37	123.21	Shut-In(2)
256	1180.69	125.86	End Shut-In(2)
257	2147.13	126.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	GOCM 20%g 22%o 58%m	0.52
75.00	CGO 19%g 81%o	0.37
0.00	1250 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co.
100 S. Main ,Ste.420
Wichita Ks.67202

ATTN: Tim Hellman

McFall#1
19-29s-15w Pratt KS
Job Ticket: 31681 **DST#:2**
Test Start: 2008.07.30 @ 20:32:16

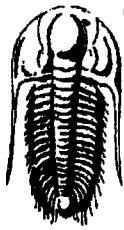
Tool Information

Drill Pipe:	Length: 4438.00 ft	Diameter: 3.80 inches	Volume: 62.25 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 63.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4681.00 ft			Final 78500.00 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
Change Over Sub	1.00			4659.00	
Shut In Tool	5.00			4664.00	
Hydraulic tool	5.00			4669.00	
Safety Joint	3.00			4672.00	
Packer	4.00			4676.00	23.00 Bottom Of Top Packer
Packer	5.00			4681.00	
Stubb	1.00			4682.00	
Recorder	0.00	8167	Inside	4682.00	
Recorder	0.00	8357	Inside	4682.00	
Perforations	33.00			4715.00	
Bullnose	5.00			4720.00	39.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co.

McFall#1

100 S.Main ,Ste.420
Wichita Ks.67202

19-29s-15w Pratt KS

Job Ticket: 31681

DST#:2

ATTN: Tim Hellman

Test Start: 2008.07.30 @ 20:32:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

3000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
105.00	GOCM 20%g 22%o 58%m	0.516
75.00	CGO 19%g 81%o	0.369
0.00	1250 ft.of GIP	0.000

Total Length: 180.00 ft Total Volume: 0.885 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 16#/bbf.

Pressure vs. Time

