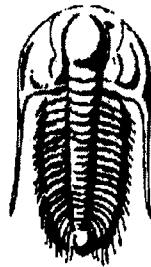


15-151-22267-0000

CONFIDENTIAL
6-30-08



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co.**

100 S. Main, Ste. # 420
Wichita, Kansas 67202

ATTN: Joe Baker

21-29s-15w Pratt Co.

Hirt "A" # 1

Start Date: 2007.05.23 @ 14:57:25

End Date: 2007.05.24 @ 01:25:25

Job Ticket #: 25870

DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 22 2007

CONSERVATION DIVISION
WICHITA, KS

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.

Hirt "A" # 1

100 S. Main, Ste. # 420
Wichita, Kansas 67202

21-29s-15w Pratt Co.

Job Ticket: 25870

DST#:1

ATTN: Joe Baker

Test Start: 2007.05.23 @ 14:57:25

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:10:25

Time Test Ended: 01:25:25

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Interval: **4588.00 ft (KB) To 4663.00 ft (KB) (TVD)**

Total Depth: 4663.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1974.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6798

Inside

Press@RunDepth: 188.72 psig @ 4593.00 ft (KB)

Start Date: 2007.05.23

End Date:

2007.05.24

Capacity: 7000.00 psig

Last Calib.: 2007.05.24

Start Time: 14:57:30

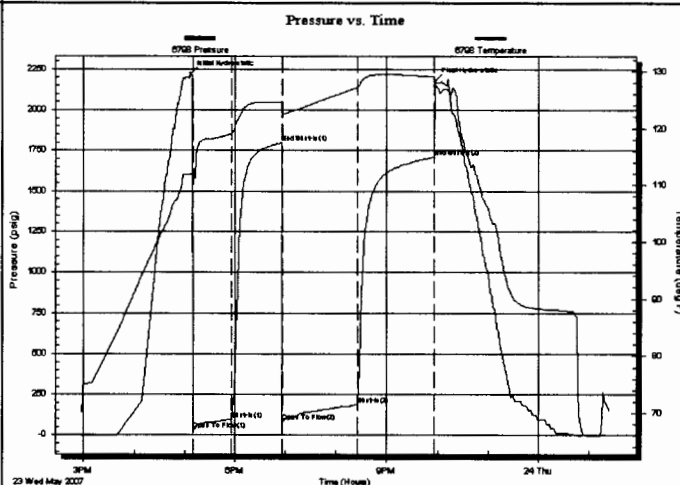
End Time:

01:25:25

Time On Btm: 2007.05.23 @ 17:07:25

Time Off Btm: 2007.05.23 @ 21:57:25

TEST COMMENT: IF: Strong blow . B.O.B. in 4 mins.
IS: Weak blow . Built to 1 1/2". Decreased to 1/4"
FF: Strong blow . B.O.B. in 20 secs. GTS in 37 mins. (see gas flow report.)
FS: Weak blow . Steady at 2 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.61	111.93	Initial Hydro-static
3	31.31	111.13	Open To Flow (1)
48	95.49	119.02	Shut-In(1)
108	1796.86	124.56	End Shut-In(1)
109	80.93	122.87	Open To Flow (2)
198	188.72	127.18	Shut-In(2)
288	1710.44	129.07	End Shut-In(2)
290	2176.96	127.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	HG&OCWM 30%g 60%o 5%w 5%m	0.54
340.00	HG&OCM 30%g 55%o 15%m	4.19
0.00	4136' GIP	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.50	5.61
Last Gas Rate			
Max. Gas Rate	0.13	3.00	6.55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co.

Hirt "A" # 1

100 S. Main, Ste. # 420
Wichita, Kansas 67202

21-29s-15w Pratt Co.

Job Ticket: 25870

DST#: 1

ATTN: Joe Baker

Test Start: 2007.05.23 @ 14:57:25

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: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 cm³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	HG&OCWM 30%g 60%o 5%w 5%m	0.541
340.00	HG&OCM 30%g 55%o 15%m	4.186
0.00	4136' GIP	0.000
0.00		0.000

Total Length: 450.00 ft

Total Volume: 4.727 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Lotus Operating Co.

Hirt "A" # 1

100 S. Main, Ste. # 420
Wichita, Kansas 67202

21-29s-15w Pratt Co.

Job Ticket: 25870

DST#: 1

ATTN: Joe Baker

Test Start: 2007.05.23 @ 14:57:25

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	0.13	0.50	5.61
2	60	0.13	1.00	5.80
2	70	0.13	2.00	6.18
2	80	0.13	3.00	6.55
2	90	0.13	3.00	6.55
0	-	-999999.00	-999999.00	-999999.00

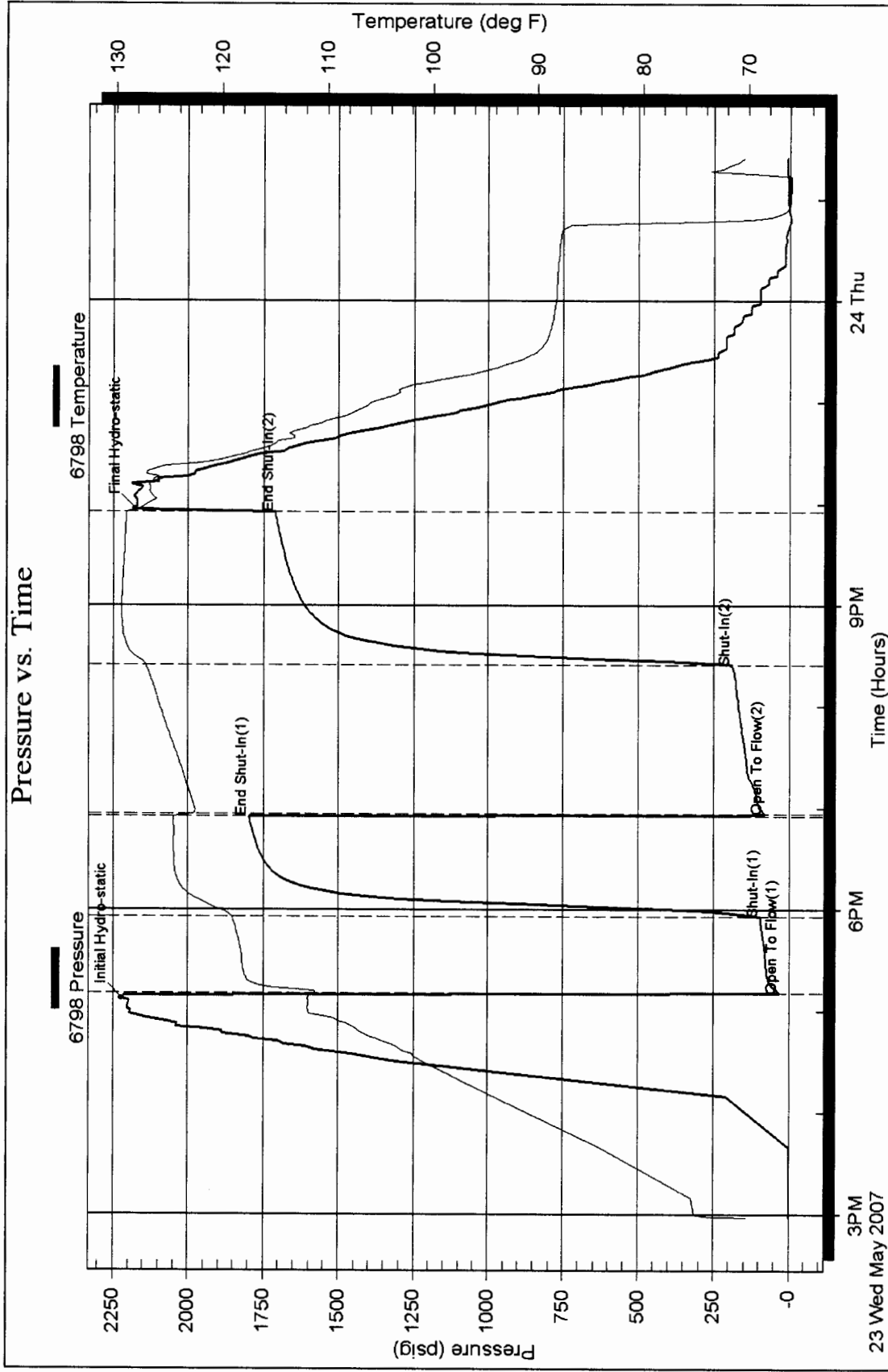
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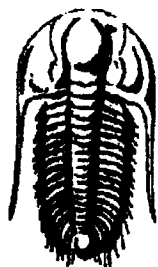
Inside

Lotus Operating Co.

21-29s-15w Pratt Co.

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co**

100 S Main Ste # 420
Wichita KS 67202

ATTN: Joe Baker

21 29 15W Pratt KS

Hirt "A" # 1

Start Date: 2007.05.23 @ 14:57:25

End Date: 2007.05.24 @ 01:25:25

Job Ticket #: 25870 DST #: 1

JUL 09 2008
KCC WICHITA

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



**TRIBOLITE
TESTING, INC**

DRILL STEM TEST REPORT

Lotus Operating Co

100 S Main Ste # 420
Wichita KS 67202

ATTN: Joe Baker

Hirt "A" # 1

21 29 15W Pratt KS

Job Ticket: 25870

DST#: 1

Test Start: 2007.05.23 @ 14:57:25

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:10:25

Time Test Ended: 01:25:25

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Interval: **4588.00 ft (KB) To 4663.00 ft (KB) (TVD)**

Total Depth: **4663.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1974.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6798

Inside

Press@RunDepth: 188.72 psig @ 4593.00 ft (KB)

Start Date: 2007.05.23

End Date:

2007.05.24

Capacity: 7000.00 psig

Last Calib.: 2007.05.24

Start Time: 14:57:30

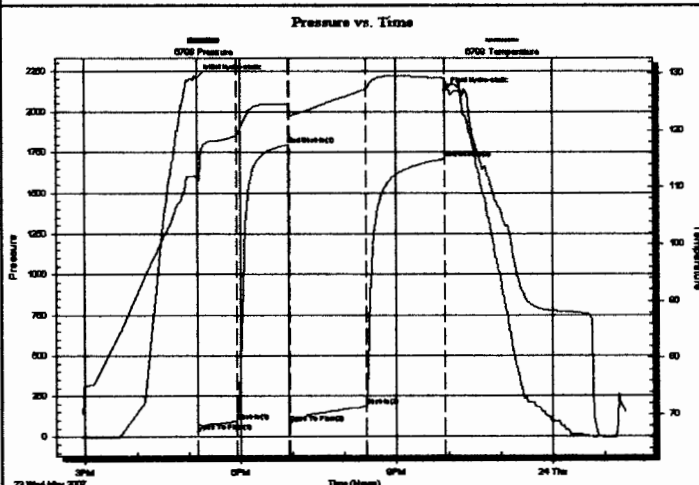
End Time:

01:25:25

Time On Btm: 2007.05.23 @ 17:09:55

Time Off Btm: 2007.05.23 @ 21:55:54

TEST COMMENT: IF Strong blow BOB in 4 mins.
ISI Weak blow Built to 1 1/2 " Decreased to 1/4 "
FF Strong blow BOB in 20 secs. GTS in 37 mins. (see gas flow report)
FSI Weak blow Steady at 2 1/2 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.17	111.69	Initial Hydro-static
1	31.31	111.13	Open To Flow (1)
46	95.49	119.02	Shut-In(1)
105	1796.86	124.56	End Shut-In(1)
107	80.93	122.87	Open To Flow (2)
195	188.72	127.18	Shut-In(2)
286	1710.44	129.07	End Shut-In(2)
286	2129.24	129.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	HG&OCWM 30%G 60%O 5%W 5%M	0.54
340.00	HG&OCM 30%G 55%O 15%M	4.19
0.00	4136' GP	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	0.50	5.61
Last Gas Rate	0.13	3.00	6.55
Max. Gas Rate	0.13	3.00	6.55



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating Co

Hirt "A" # 1

100 S Main Ste # 420
Wichita KS 67202

21 29 15W Pratt KS

Job Ticket: 25870

DST#: 1

ATTN: Joe Baker

Test Start: 2007.05.23 @ 14:57:25

Tool Information

Drill Pipe:	Length: 4412.00 ft	Diameter: 3.80 inches	Volume: 61.89 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: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 62.75 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4588.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	98.00 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			4570.00	
Hydraulic tool	5.00			4575.00	
Safety Joint	3.00			4578.00	
Packer	5.00			4583.00	23.00 Bottom Of Top Packer
Packer	5.00			4588.00	
Stubb	1.00			4589.00	
Perforations	3.00			4592.00	
Change Over Sub	1.00			4593.00	
Recorder	0.00	6798	Inside	4593.00	
Blank Spacing	62.00			4655.00	
Change Over Sub	1.00			4656.00	
Perforations	4.00			4660.00	
Recorder	0.00	13249	Outside	4660.00	
Bullnose	3.00			4663.00	75.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co

Hirt "A" # 1

100 S Main Ste # 420
Wichita KS 67202

21 29 15W Pratt KS

Job Ticket: 25870

DST#: 1

ATTN: Joe Baker

Test Start: 2007.05.23 @ 14:57:25

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: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	HG&OCWM 30%G 60%O 5%W 5%M	0.541
340.00	HG&OCM 30%G 55%O 15%M	4.186
0.00	4136 ' GP	0.000
0.00		0.000

Total Length: 450.00 ft

Total Volume: 4.727 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: GA-1

Laboratory Name: Caraw ay

Laboratory Location: Liberal, KS

Recovery Comments:

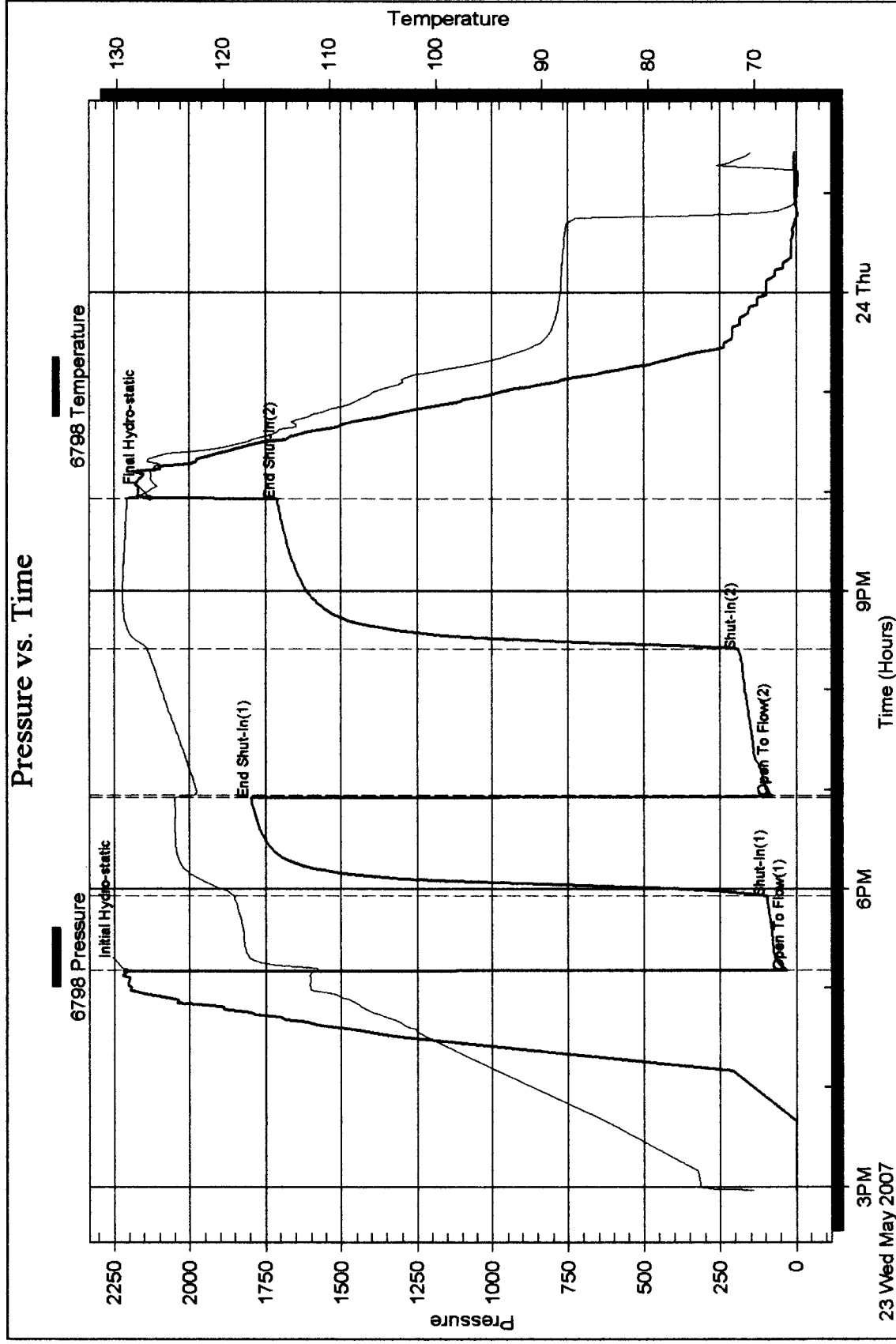
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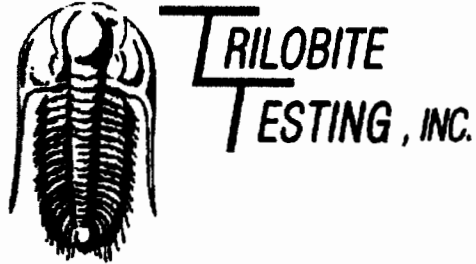
Inside

Lotus Operating Co

21 29 15W Pratt KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co**

100 S Main Ste # 420
Wichita KS 67202

ATTN: Joe Baker

21 29 15W Pratt KS

Hirt "A" # 1

Start Date: 2007.05.24 @ 13:56:49

End Date: 2007.05.24 @ 23:37:19

Job Ticket #: 25871 DST #: 2

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KCC WICHITA

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

100 S Main Ste # 420
Wichita KS 67202

ATTN: Joe Baker

Hirt "A" # 1

21 29 15W Pratt KS

Job Ticket: 25871

DST#: 2

Test Start: 2007.05.24 @ 13:56:49

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:10:19

Time Test Ended: 23:37:19

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Interval: **4664.00 ft (KB) To 4762.00 ft (KB) (TVD)**

Total Depth: **4762.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1974.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: **6798**

Inside

Press@RunDepth: 171.48 psig @ 4676.00 ft (KB)

Start Date: 2007.05.24

End Date:

2007.05.24

Capacity: 7000.00 psig

Last Calib.: 2007.05.24

Start Time: 13:56:54

End Time:

23:37:19

Time On Btm: 2007.05.24 @ 16:08:19

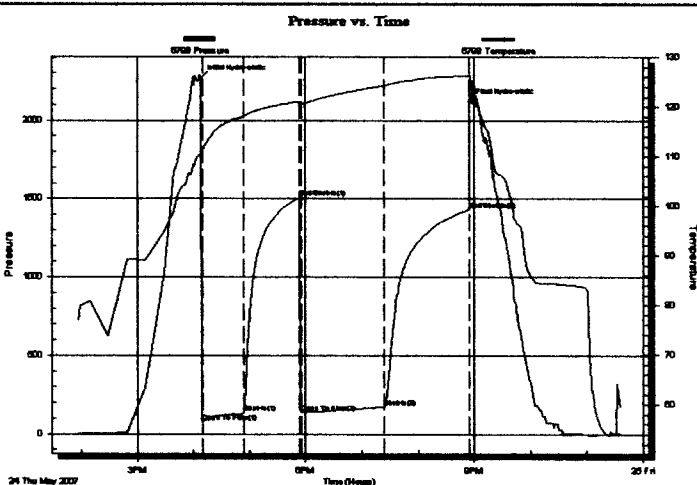
Time Off Btm: 2007.05.24 @ 20:54:48

TEST COMMENT: IF Fair blow Built to 10 1/2 "

ISI No blow

FF Fair blow Built to 8 "

FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.20	110.47	Initial Hydro-static
2	78.38	111.06	Open To Flow (1)
46	133.39	118.07	Shut-In(1)
106	1507.32	121.05	End Shut-In(1)
108	138.26	120.59	Open To Flow (2)
196	171.48	124.26	Shut-In(2)
286	1432.41	126.32	End Shut-In(2)
287	2118.84	126.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
294.00	SWCMw /Oil scum 10%W 90%M	2.54
26.00	Drig. Mud w /Oil scum 100%M	0.36
0.00	RW= .191 @ 65 deg. 48000 ppm	0.00
0.00		0.00

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

Hirt "A" # 1

100 S Main Ste # 420
Wichita KS 67202

21 29 15W Pratt KS

Job Ticket: 25871

DST#: 2

ATTN: Joe Baker

Test Start: 2007.05.24 @ 13:56:49

Tool Information

Drill Pipe:	Length: 4473.00 ft	Diameter: 3.80 inches	Volume: 62.74 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: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 63.60 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4664.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	121.00 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			4646.00	
Hydraulic tool	5.00			4651.00	
Safety Joint	3.00			4654.00	
Packer	5.00			4659.00	23.00 Bottom Of Top Packer
Packer	5.00			4664.00	
Stubb	1.00			4665.00	
Perforations	10.00			4675.00	
Change Over Sub	1.00			4676.00	
Recorder	0.00	6798	Inside	4676.00	
Blank Spacing	62.00			4738.00	
Change Over Sub	1.00			4739.00	
Perforations	20.00			4759.00	
Recorder	0.00	13249	Outside	4759.00	
Bullnose	3.00			4762.00	98.00 Bottom Packers & Anchor
Total Tool Length:		121.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co

Hirt "A" # 1

100 S Main Ste # 420
Wichita KS 67202

21 29 15W Pratt KS

Job Ticket: 25871

DST#: 2

ATTN: Joe Baker

Test Start: 2007.05.24 @ 13:56:49

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
294.00	SWCMw /Oil scum 10%W 90%M	2.539
26.00	Drig. Mud w /Oil scum 100%M	0.365
0.00	RW= .191 @ 65 deg. 48000 ppm	0.000
0.00		0.000

Total Length: 320.00 ft

Total Volume: 2.904 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

Inside

Lotus Operating Co

21 29 15W Pratt KS

DST Test Number: 2

Pressure vs. Time

