

DRILL STEM TEST REPORT

Prepared For: **Hutchinson Oil CO**

PO Box 521
Derby KS 67037

ATTN: Josh Austin

25 23 13 Stafford K

Salem #1 - 25

Start Date: 2007.01.04 @ 01:32:26

End Date: 2007.01.04 @ 08:44:56

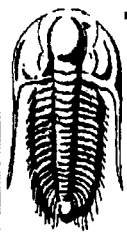
Job Ticket #: 27116

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

Hutchinson Oil CO

PO Box 521
Derby KS 67037

ATTN: Josh Austin

Salem #1 - 25

25 23 13 Stafford K

Job Ticket: 27116

DST#: 1

Test Start: 2007.01.04 @ 01:32:26

GENERAL INFORMATION:

Formation: **Lansing B-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:36:41

Time Test Ended: 08:44:56

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **3481.00 ft (KB) To 3545.00 ft (KB) (TVD)**

Total Depth: 3545.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1896.00 ft (KB)

1887.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6752

Inside

Press@RunDepth: 32.20 psig @ 3482.00 ft (KB)

Start Date: 2007.01.04

End Date:

2007.01.04

Start Time: 01:32:31

End Time:

08:44:55

Capacity: 7000.00 psig

Last Calib.: 2007.01.04

Time On Btm: 2007.01.04 @ 03:35:56

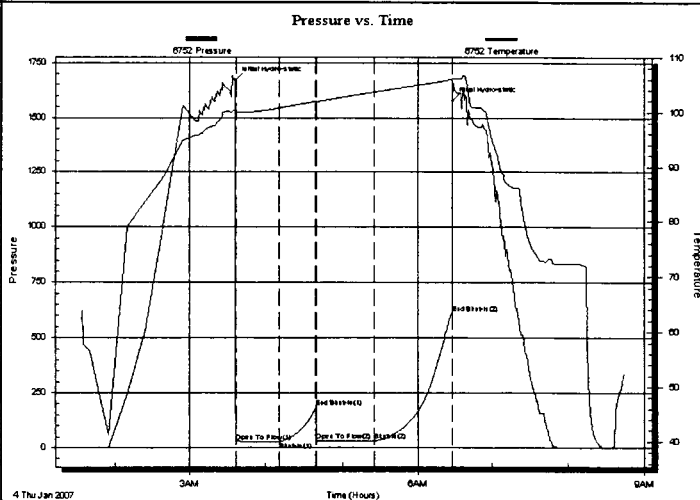
Time Off Btm: 2007.01.04 @ 06:27:55

TEST COMMENT: IF Weak Blow 2 1/2 inches

ISI Bled off No Blow back

FF Weak Blow 2 inches

FSI Bled Off No Blow back



PRESSURE SUMMARY

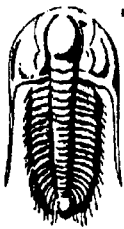
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.67	100.31	Initial Hydro-static
1	26.98	100.04	Open To Flow (1)
34	27.66	100.71	Shut-In (1)
63	182.69	101.94	End Shut-In (1)
64	29.54	101.91	Open To Flow (2)
110	32.20	103.65	Shut-In (2)
172	612.83	105.93	End Shut-In (2)
172	1576.33	106.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGCM -1%G +99%M	0.42

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hutchinson Oil CO

Salem #1 - 25

PO Box 521
Derby KS 67037

25 23 13 Stafford K

Job Ticket: 27116

DST#: 1

ATTN: Josh Austin

Test Start: 2007.01.04 @ 01:32:26

Tool Information

Drill Pipe:	Length: 3484.00 ft	Diameter: 3.80 inches	Volume: 48.87 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 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:	45000.00 lb
		Total Volume:	48.87 bbl	Tool Chased	ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3481.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	84.00 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			3462.00	
Shut In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Packer	5.00			3477.00	20.00 Bottom Of Top Packer
Packer	4.00			3481.00	
Stubb	1.00			3482.00	
Recorder	0.00	6752	Inside	3482.00	
Perforations	16.00			3498.00	
Drill Pipe	31.00			3529.00	
Perforations	13.00			3542.00	
Recorder	0.00	6704	Outside	3542.00	
Bullnose	3.00			3545.00	64.00 Bottom Packers & Anchor

Total Tool Length: 84.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil CO

Salem #1 - 25

PO Box 521
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25 23 13 Stafford K

Job Ticket: 27116

DST#: 1

ATTN: Josh Austin

Test Start: 2007.01.04 @ 01:32:26

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGCM -1%G +99%M	0.421

Total Length: 30.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

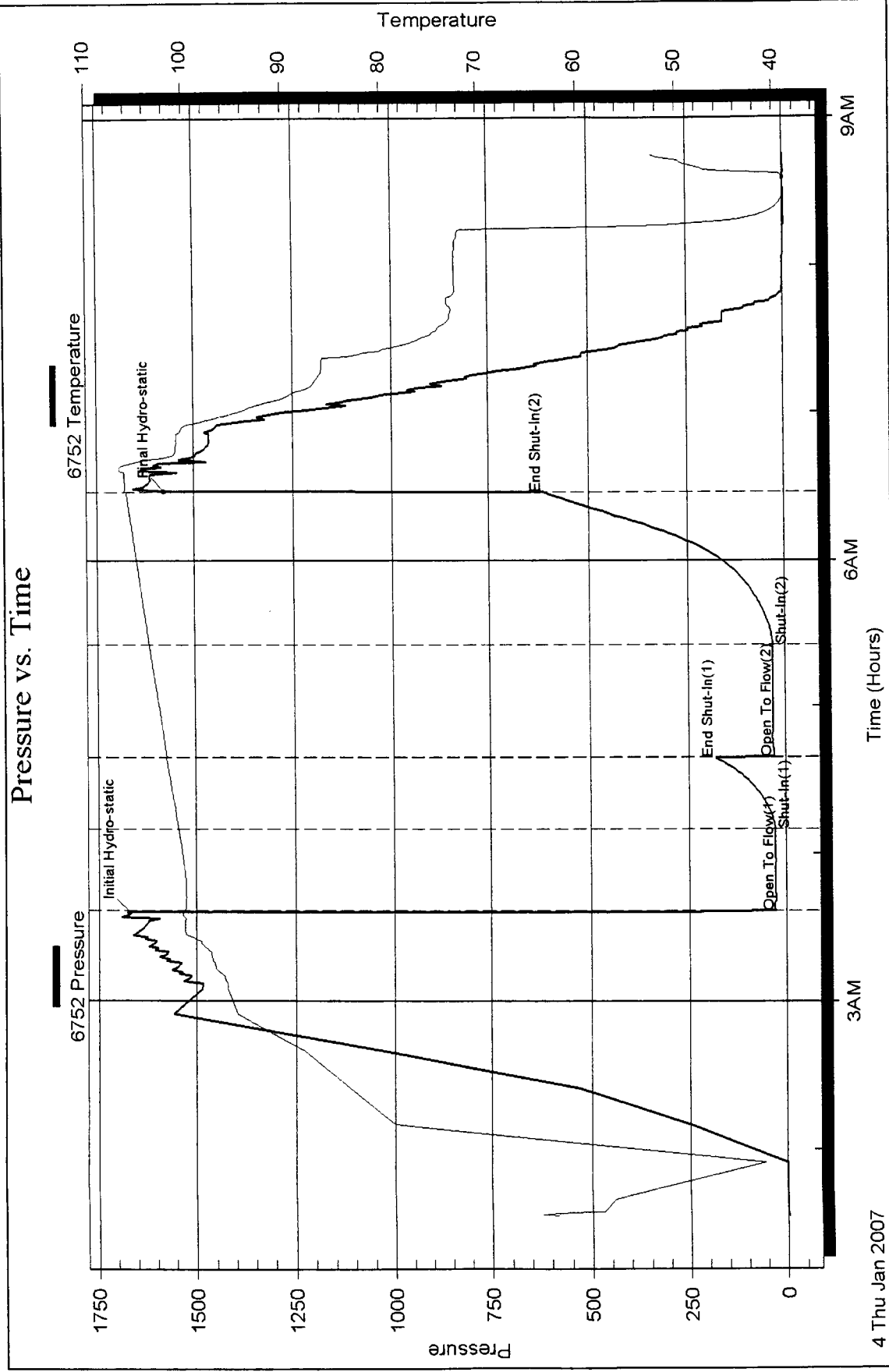
Serial #:

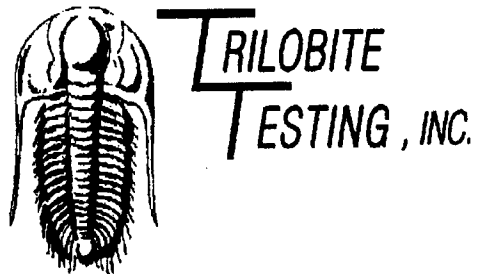
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Hutchinson Oil CO**

PO Box 521
Derby KS 67037

ATTN: Josh Austin

25 23 13 Stafford K

Salem #1 - 25

Start Date: 2007.01.04 @ 23:16:39

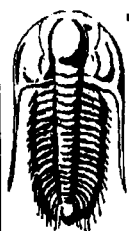
End Date: 2007.01.05 @ 06:07:54

Job Ticket #: 27117 DST #: 2

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DRILL STEM TEST REPORT

Hutchinson Oil CO

PO Box 521
Derby KS 67037

ATTN: Josh Austin

Salem #1 - 25

25 23 13 Stafford K

Job Ticket: 27117

DST#: 2

Test Start: 2007.01.04 @ 23:16:39

GENERAL INFORMATION:

Formation: **Lansing H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:49:09

Time Test Ended: 06:07:54

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **3586.00 ft (KB) To 3686.00 ft (KB) (TVD)**

Total Depth: 3686.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1896.00 ft (KB)

1887.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6752

Inside

Press@RunDepth: 837.69 psig @ 3587.00 ft (KB)

Start Date: 2007.01.04

End Date:

2007.01.05

Start Time: 23:16:44

End Time:

06:07:53

Capacity: 7000.00 psig

Last Calib.: 2007.01.05

Time On Btm: 2007.01.05 @ 00:38:39

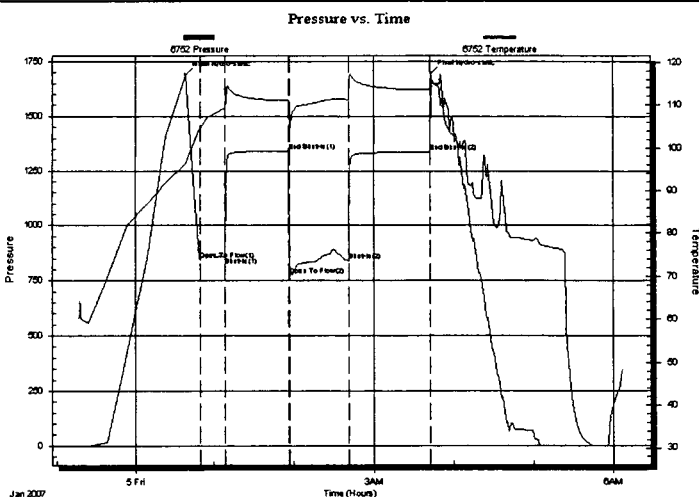
Time Off Btm: 2007.01.05 @ 03:43:09

TEST COMMENT: IF Strong Blow BOB in 40 seconds GTS in 2 minutes Guaged Gas

ISI Would Not Bleed Off

FF Strong Blow BOB and GTS Immediate

FSI Would Not Bleed Off



PRESSURE SUMMARY

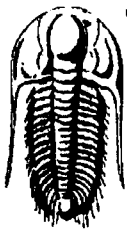
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.12	96.30	Initial Hydro-static
11	844.05	104.41	Open To Flow (1)
30	858.91	109.35	Shut-In(1)
78	1340.05	111.17	End Shut-In(1)
79	773.75	105.12	Open To Flow (2)
123	837.69	111.21	Shut-In(2)
184	1335.46	113.66	End Shut-In(2)
185	1693.35	112.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GSY OWOM 10%G 10%O 20%W 60%O	0.84
90.00	GSY MCO 10%G 30%M 60%O	1.26

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	100.00	3288.86
Last Gas Rate	1.00	168.00	5243.78
Max. Gas Rate	1.00	168.00	5243.78



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Hutchinson Oil CO

Salem #1 - 25

PO Box 521
Derby KS 67037

25 23 13 Stafford K

Job Ticket: 27117

DST#:2

ATTN: Josh Austin

Test Start: 2007.01.04 @ 23:16:39

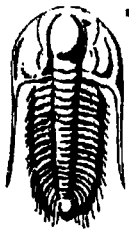
Tool Information

Drill Pipe:	Length: 3575.00 ft	Diameter: 3.80 inches	Volume: 50.15 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 3.25 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: 50.15 bbl	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3586.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	120.00 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			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	20.00 Bottom Of Top Packer
Packer	4.00			3586.00	
Stubb	1.00			3587.00	
Recorder	0.00	6752	Inside	3587.00	
Perforations	16.00			3603.00	
Drill Pipe	62.00			3665.00	
Perforations	18.00			3683.00	
Recorder	0.00	6704	Outside	3683.00	
Bullnose	3.00			3686.00	100.00 Bottom Packers & Anchor

Total Tool Length: 120.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil CO

Salem #1 - 25

PO Box 521
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25 23 13 Stafford K

Job Ticket: 27117

DST#: 2

ATTN: Josh Austin

Test Start: 2007.01.04 @ 23:16:39

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: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GSY OWCM 10%G 10%O 20%W 60%M	0.842
90.00	GSY MCO 10%G 30%M 60%O	1.262

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

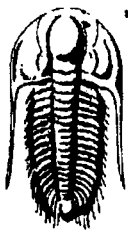
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Hutchinson Oil CO

Salem #1 - 25

PO Box 521
Derby KS 67037

25 23 13 Stafford K

Job Ticket: 27117

DST#: 2

ATTN: Josh Austin

Test Start: 2007.01.04 @ 23:16:39

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	10	1.00	100.00	3288.86
1	10	1.00	100.00	3288.86
1	20	1.00	135.00	4295.07
1	30	1.00	145.00	4582.56
2	10	1.00	140.00	4438.82
2	20	1.00	140.00	4438.82
2	30	1.00	160.00	5013.79
2	40	1.00	168.00	5243.78

DST Test Number: 2

25 23 13 Stafford K

Hutchinson Oil CO

Inside

Serial #: 6752

