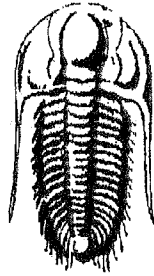


150



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Shakespeare Oil Co.**

202 W Main St.  
Salem IL, 62881

ATTN: Brad Rine

**27-13s-31w Gove KS**

**Parsons #1-27**

Start Date: 2009.12.16 @ 23:48:05

End Date: 2009.12.17 @ 07:31:59

Job Ticket #: 37670                      DST #: 1

RECEIVED  
JAN 19 2010  
KCC WICHITA

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

Shakespeare Oil Co.

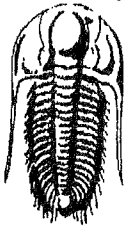
Parsons #1-27

27-13s-31w Gove KS

DST # 1

Myric Station, Ft Sc

2009.12.16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**Parsons #1-27**

202 W Main St.  
Salem IL, 62881

**27-13s-31w Gove KS**

ATTN: Brad Rine

Job Ticket: 37670

DST#: 1

Test Start: 2009.12.16 @ 23:48:05

## GENERAL INFORMATION:

Formation: **Myric Station, Ft Sc**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:02:00

Time Test Ended: 07:31:59

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: **4410.00 ft (KB) To 4478.00 ft (KB) (TVD)**

Total Depth: 4478.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2862.00 ft (KB)

2857.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8322** Inside

Press@RunDepth: 469.10 psig @ 4411.00 ft (KB)

Start Date: 2009.12.16

End Date:

2009.12.17

Start Time: 23:48:05

End Time:

07:31:59

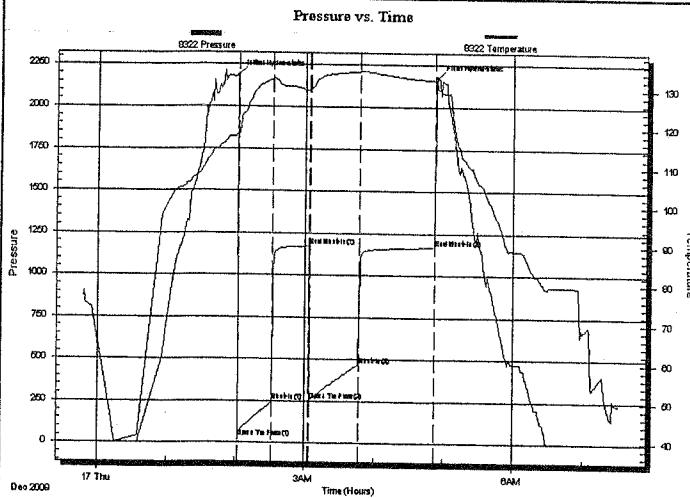
Capacity: 8000.00 psig

Last Calib.: 2009.12.17

Time On Btm: 2009.12.17 @ 02:01:45

Time Off Btm: 2009.12.17 @ 04:54:29

TEST COMMENT: IF: BOB in 8 mins.  
IS: No return.  
FF: BOB in 13 mins.  
FS: No return.



## PRESSURE SUMMARY

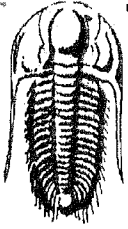
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.01	118.43	Initial Hydro-static
1	31.45	117.95	Open To Flow (1)
31	248.30	132.58	Shut-In (1)
62	1171.35	129.53	End Shut-In (1)
63	255.26	129.66	Open To Flow (2)
105	469.10	134.38	Shut-In (2)
171	1166.05	132.17	End Shut-In (2)
173	2173.29	130.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100% m	0.05
779.00	SMCW 95% w 5% m	9.90
186.00	WCM 30% w 70% m	2.61
0.00	GIP = 0	0.00
0.00	RW = .134 @ 69F = 60000	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.

**Parsons #1-27**

202 W Main St.  
Salem IL, 62881

**27-13s-31w Gove KS**

Job Ticket: 37670

**DST#: 1**

ATTN: Brad Rine

Test Start: 2009.12.16 @ 23:48:05

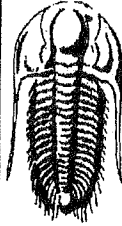
## Tool Information

Drill Pipe:	Length: 4282.00 ft	Diameter: 3.80 inches	Volume: 60.07 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
		<b>Total Volume:</b>	<b>60.67 bbl</b>	Tool Chased 3.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4410.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 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			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	3.00			4401.00	
Packer	5.00			4406.00	28.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	8322	Inside	4411.00	
Recorder	0.00	6741	Inside	4411.00	
Perforations	30.00			4441.00	
Change Over Sub	1.00			4442.00	
Drill Pipe	30.00			4472.00	
Change Over Sub	1.00			4473.00	
Bullnose	5.00			4478.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Shakespeare Oil Co.

**Parsons #1-27**

202 W Main St.  
Salem IL, 62881

**27-13s-31w Gove KS**

ATTN: Brad Rine

Job Ticket: 37670

**DST#: 1**

Test Start: 2009.12.16 @ 23:48:05

**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:

60000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
10.00	M 100% <sub>m</sub>	0.049
779.00	SMCW 95% <sub>w</sub> 5% <sub>m</sub>	9.898
186.00	WCM 30% <sub>w</sub> 70% <sub>m</sub>	2.609
0.00	GIP = 0	0.000
0.00	RW = .134@ 69F = 60000	0.000

Total Length: 975.00 ft

Total Volume: 12.556 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

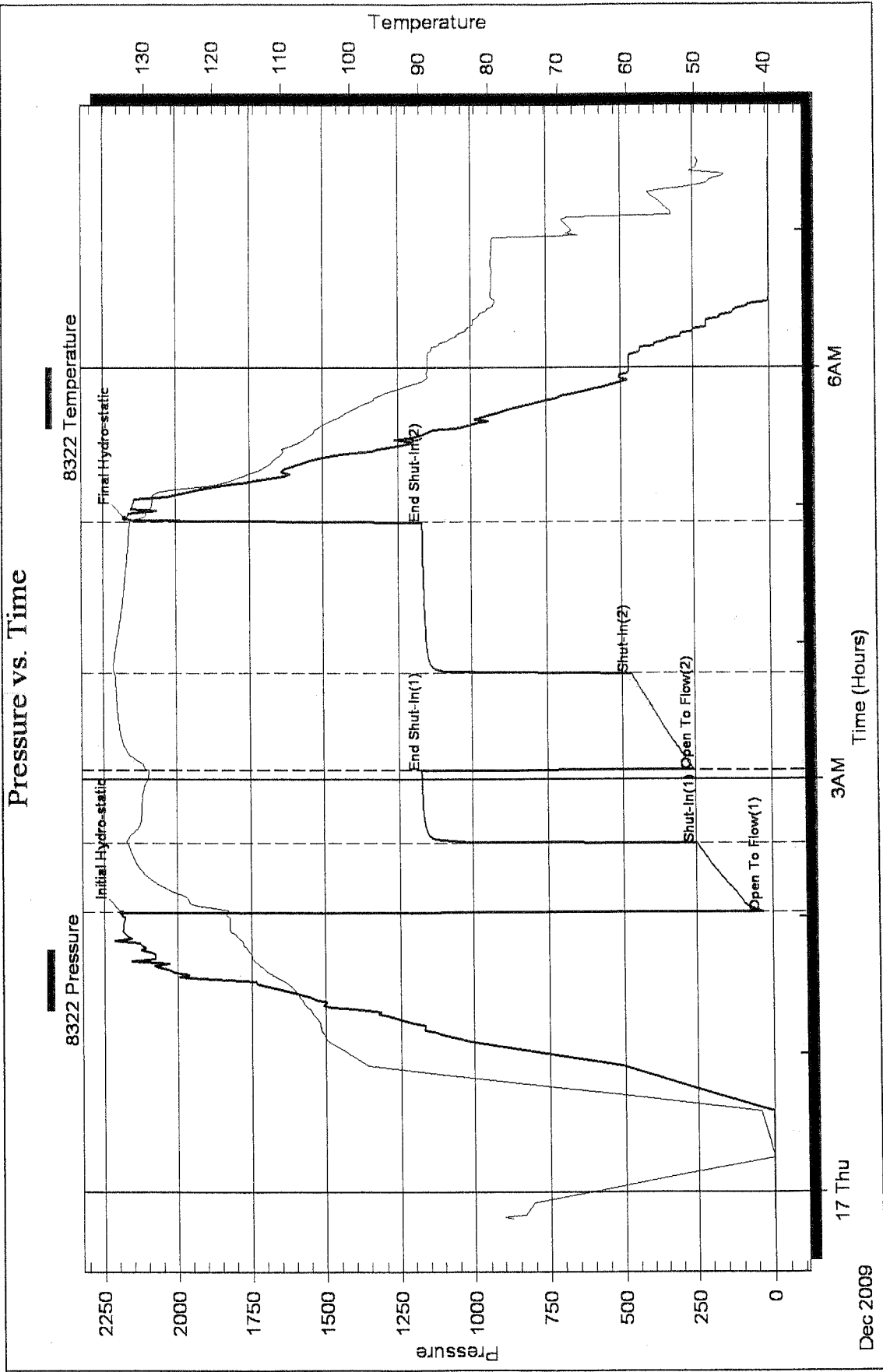
Serial #:

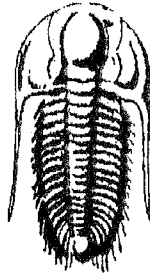
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co.**

202 W Main St.  
Salem IL, 62881

ATTN: Brad Rine

**27-13s-31w Gove KS**

**Parsons #1-27**

Start Date: 2009.12.18 @ 12:57:05

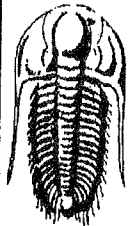
End Date: 2009.12.18 @ 21:25:59

Job Ticket #: 37671                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**Parsons #1-27**

202 W Main St.  
Salem IL, 62881

**27-13s-31w Gove KS**

ATTN: Brad Rine

Job Ticket: 37671

**DST#: 2**

Test Start: 2009.12.18 @ 12:57:05

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:15

Time Test Ended: 21:25:59

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: **4500.00 ft (KB) To 4554.00 ft (KB) (TVD)**

Total Depth: 4680.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2862.00 ft (KB)

2857.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741**

**Inside**

Press@RunDepth: 509.16 psig @ 4501.00 ft (KB)

Start Date: 2009.12.18

End Date: 2009.12.18

Start Time: 12:57:05

End Time: 21:25:59

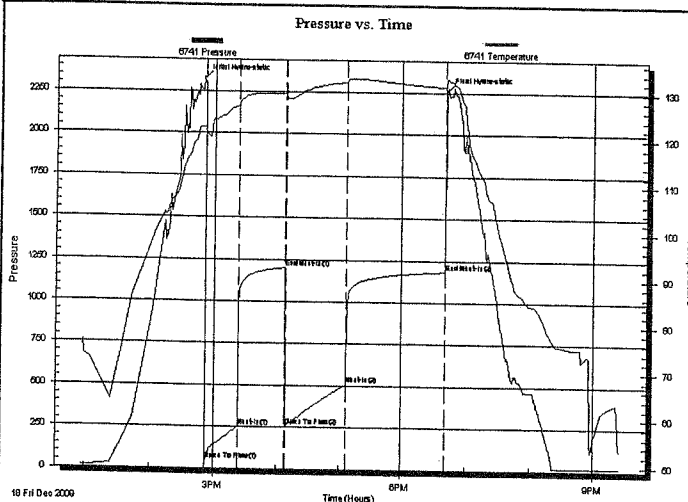
Capacity: 8000.00 psig

Last Calib.: 2009.12.18

Time On Btm: 2009.12.18 @ 14:50:15

Time Off Btm: 2009.12.18 @ 18:41:44

**TEST COMMENT:** IF: BOB in 9 mins  
IS: No return.  
FF: BOB in 12 mins.  
FS: Non return.



## PRESSURE SUMMARY

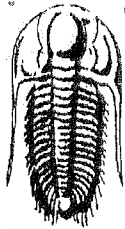
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2326.25	122.49	Initial Hydro-static
2	53.33	120.67	Open To Flow (1)
33	252.59	127.18	Shut-In(1)
78	1200.26	129.63	End Shut-In(1)
78	255.94	128.86	Open To Flow (2)
137	509.16	132.27	Shut-In(2)
231	1182.12	131.37	End Shut-In(2)
232	2260.63	133.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% <sub>m</sub>	0.15
743.00	SMCW 95% <sub>w</sub> 5% <sub>m</sub>	9.58
252.00	SWCM 10% <sub>w</sub> 90% <sub>m</sub>	3.53
0.00	GIP = 0	0.00
0.00	RW = .146@ 55F = 70000ppm	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.

**Parsons #1-27**

202 W Main St.  
Salem IL, 62881

**27-13s-31w Gove KS**

ATTN: Brad Rine

Job Ticket: 37671

DST#: 2

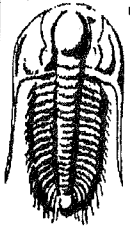
Test Start: 2009.12.18 @ 12:57:05

## Tool Information

Drill Pipe:	Length: 4379.00 ft	Diameter: 3.80 inches	Volume: 61.43 bbl	Tool Weight: 1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4500.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	181.00 ft			
Tool Length:	209.00 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			4473.00	
Shut In Tool	5.00			4478.00	
Hydraulic tool	5.00			4483.00	
Jars	5.00			4488.00	
Safety Joint	3.00			4491.00	
Packer	5.00			4496.00	28.00 Bottom Of Top Packer
Packer	4.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	6741	Inside	4501.00	
Perforations	10.00			4511.00	
Change Over Sub	1.00			4512.00	
Drill Pipe	32.00			4544.00	
Change Over Sub	1.00			4545.00	
Perforations	5.00			4550.00	
Blank Off Sub	1.00			4551.00	
Top of packer	3.00			4554.00	181.00 Tool Interval
Packer	1.00			4555.00	
Stubb	1.00			4556.00	
Blank Spacing	23.00			4579.00	
Change Over Sub	1.00			4580.00	
Recorder	0.00	8322	Below	4580.00	
Drill Pipe	95.00			4675.00	
Change Over Sub	1.00			4676.00	
Bullnose	5.00			4681.00	1000208.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>209.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Shakespeare Oil Co.

**Parsons #1-27**

202 W Main St.  
Salem IL, 62881

**27-13s-31w Gove KS**

ATTN: Brad Rine

Job Ticket: 37671

DST#: 2

Test Start: 2009.12.18 @ 12:57:05

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.18 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 70000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100% <sub>m</sub>	0.148
743.00	SMCW 95% <sub>w</sub> 5% <sub>m</sub>	9.575
252.00	SWCM 10% <sub>w</sub> 90% <sub>m</sub>	3.535
0.00	GIP = 0	0.000
0.00	RW = .146@ 55F = 70000ppm	0.000

Total Length: 1025.00 ft      Total Volume: 13.258 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

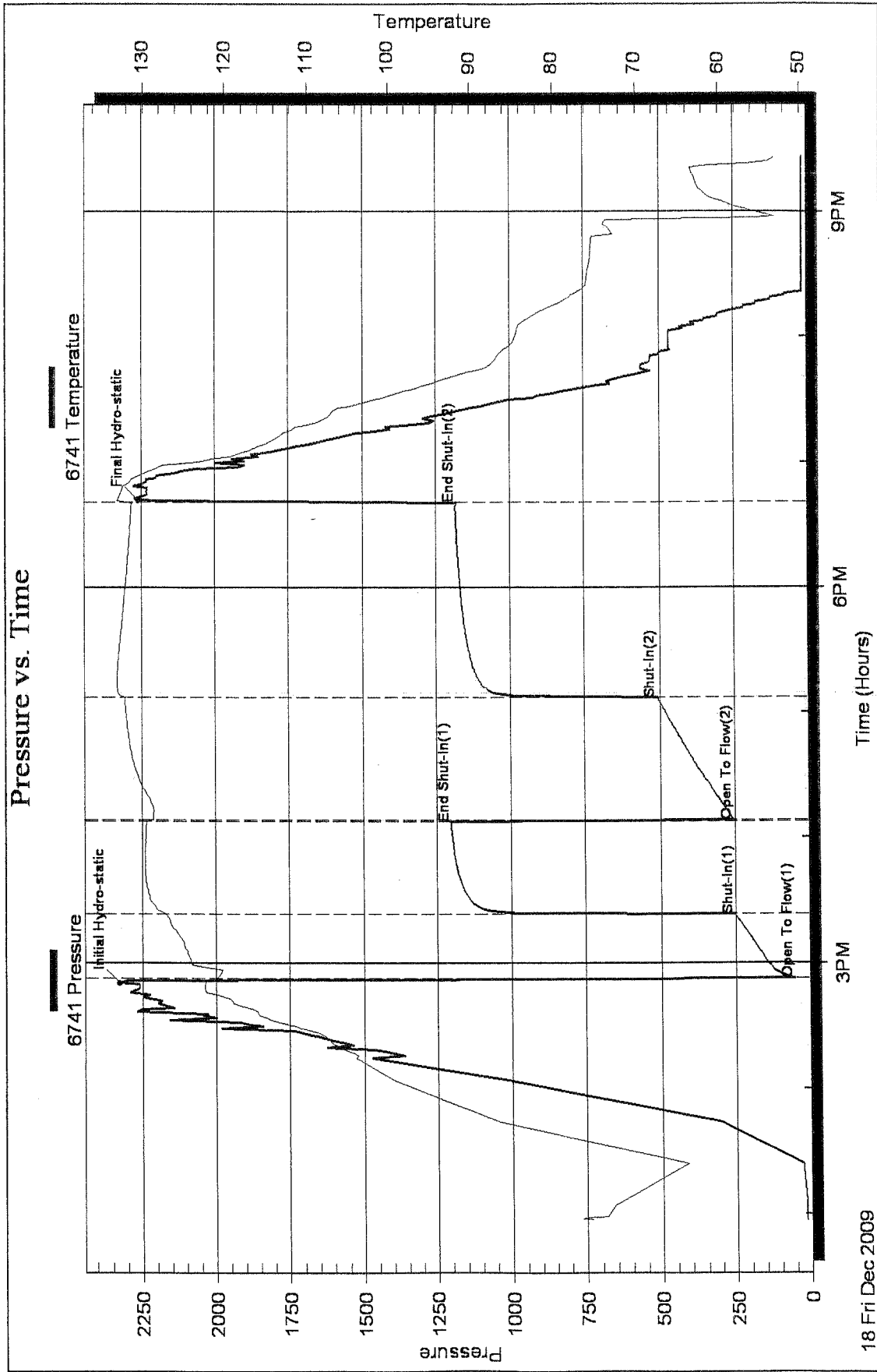
Recovery Comments:

Serial #: 6741

Inside Shakespeare Oil Co.

27-13s-31w Gove KS

DST Test Number: 2



18 Fri Dec 2009

Trilobite Testing, Inc

Ref. No: 37671

Printed: 2009.12.29 @ 11:41:31 Page 5