



## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

### **KSM Ranch #1-36**

### **36-3s-22w Norton,KS**

Start Date: 2012.09.12 @ 04:45:00

End Date: 2012.09.12 @ 10:48:00

Job Ticket #: 46192                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:22:39



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46192

**DST#: 1**

ATTN: Richard Bell

Test Start: 2012.09.12 @ 04:45:00

## GENERAL INFORMATION:

Formation: **LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:15:00

Time Test Ended: 10:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3513.00 ft (KB) To 3537.00 ft (KB) (TVD)**

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3537.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8791**

**Inside**

Press @ Run Depth: 90.47 psig @ 3514.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.12 End Date: 2012.09.12

Last Calib.: 2012.09.12

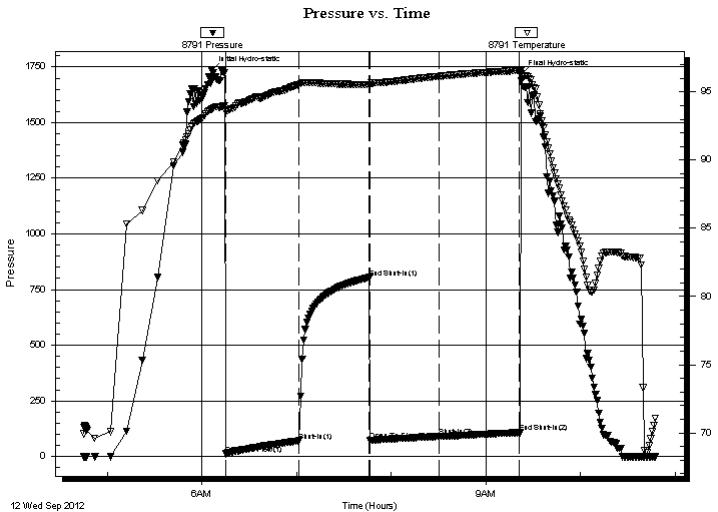
Start Time: 04:45:05 End Time: 10:47:59

Time On Btm: 2012.09.12 @ 06:06:00

Time Off Btm: 2012.09.12 @ 09:22:00

**TEST COMMENT:** IF: Weak blow, Built to 2 in. Over 45 mins.  
IS: No blow back over 45 mins.  
FF: Weak blow, Built to 1/2 in. over 45 mins.  
FS: No blow back over 45 mins.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.59	93.70	Initial Hydro-static
9	12.45	93.56	Open To Flow (1)
56	70.55	95.56	Shut-In(1)
100	803.79	95.55	End Shut-In(1)
101	71.28	95.49	Open To Flow (2)
145	90.47	96.16	Shut-In(2)
195	107.71	96.58	End Shut-In(2)
196	1717.89	96.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	water-3 in. free oil.	0.64

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**36-3s-22w Norton,KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46192

**DST#: 1**

ATTN: Richard Bell

Test Start: 2012.09.12 @ 04:45:00

### Tool Information

Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 bbl	Tool Weight: 2000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.29 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3513.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			3498.00	
Hydraulic tool	5.00			3503.00	
Packer	5.00			3508.00	20.00 Bottom Of Top Packer
Packer	5.00			3513.00	
Stubb	1.00			3514.00	
Recorder	0.00	8791	Inside	3514.00	
Recorder	0.00	8673	Outside	3514.00	
Perforations	20.00			3534.00	
Bullnose	3.00			3537.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company  
PO Box 428  
Logan, KS 67646  
ATTN: Richard Bell

**36-3s-22w Norton, KS**  
**KSM Ranch #1-36**  
Job Ticket: 46192      **DST#: 1**  
Test Start: 2012.09.12 @ 04:45:00

## 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: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	water-3 in. free oil.	0.638

Total Length: 126.00 ft      Total Volume: 0.638 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

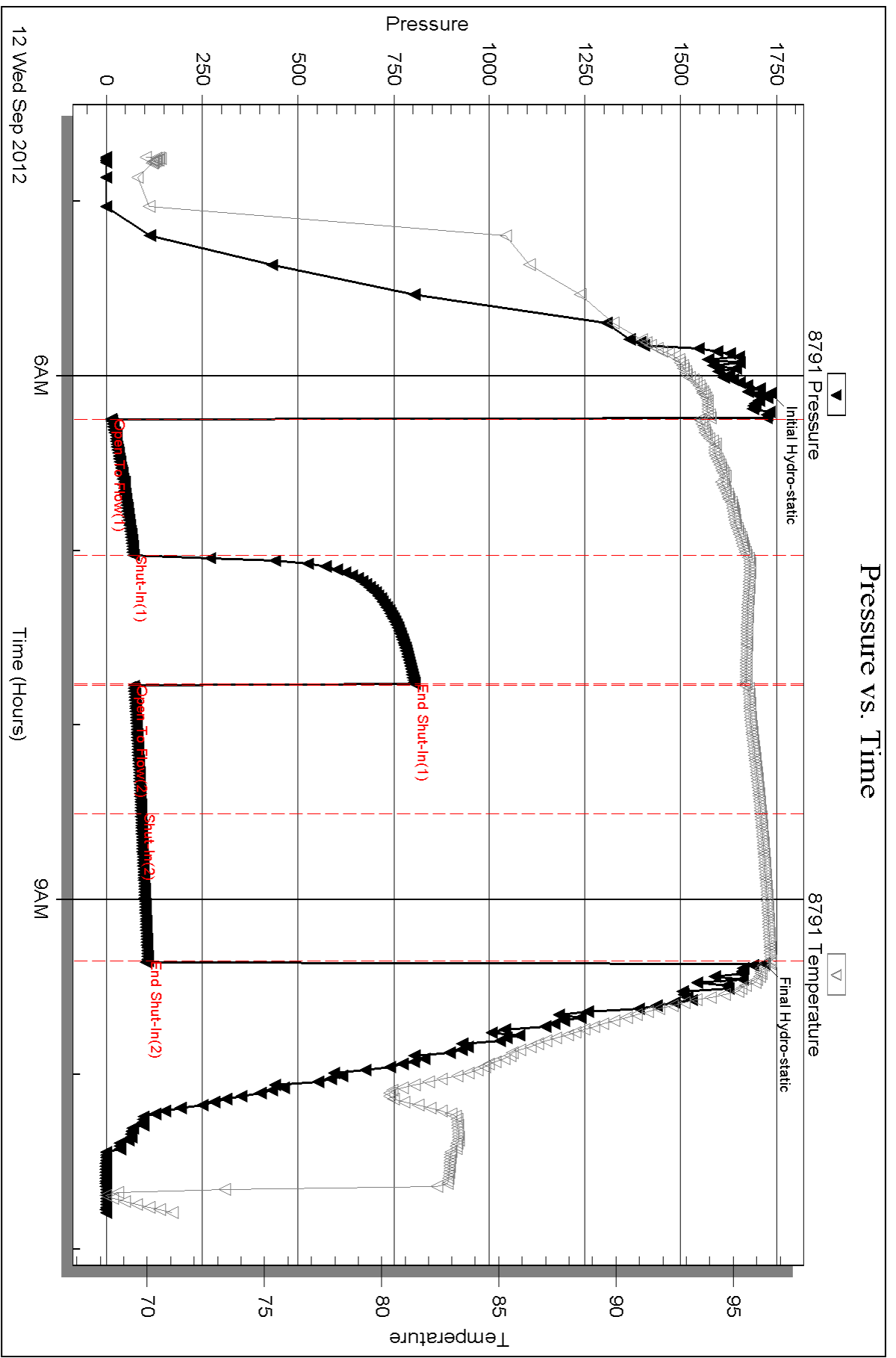
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 1

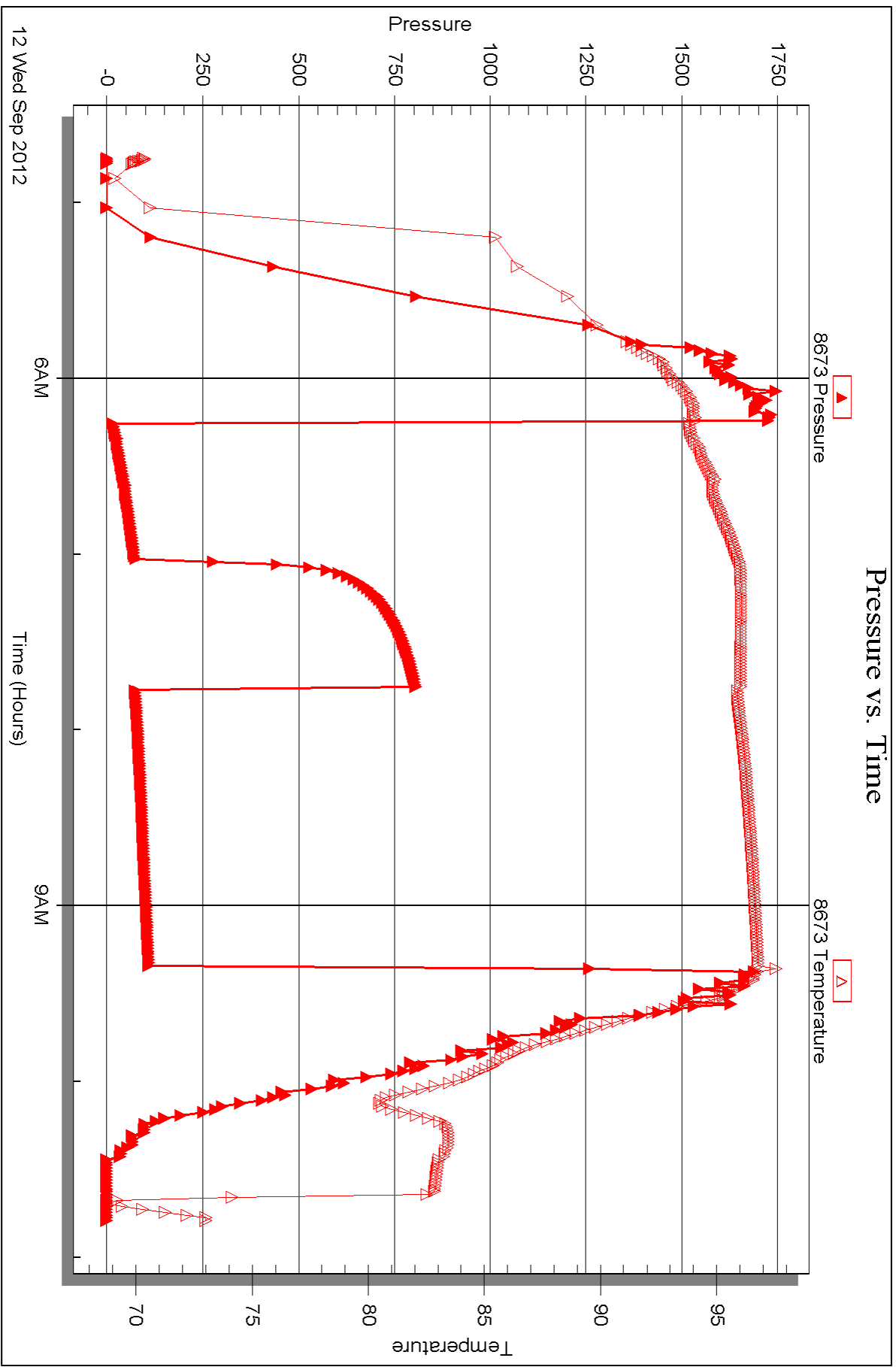


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

### **KSM Ranch #1-36**

### **36-3s-22w Norton,KS**

Start Date: 2012.09.12 @ 20:30:00

End Date: 2012.09.12 @ 22:36:30

Job Ticket #: 46193                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:21:41









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46193

**DST#: 2**

ATTN: Richard Bell

Test Start: 2012.09.12 @ 20:30:00

## Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 48.26 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3537.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3522.00	
Hydraulic tool	5.00			3527.00	
Packer	5.00			3532.00	20.00 Bottom Of Top Packer
Packer	5.00			3537.00	
Stubb	1.00			3538.00	
Perforations	1.00			3539.00	
Recorder	0.00	8791	Inside	3539.00	
Recorder	0.00	8673	Outside	3539.00	
Change Over Sub	1.00			3540.00	
Blank Spacing	31.00			3571.00	
Change Over Sub	1.00			3572.00	
Perforations	5.00			3577.00	
Bullnose	3.00			3580.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company  
PO Box 428  
Logan, KS 67646  
ATTN: Richard Bell

**36-3s-22w Norton, KS**  
**KSM Ranch #1-36**  
Job Ticket: 46193      **DST#: 2**  
Test Start: 2012.09.12 @ 20:30:00

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      bbl  
Num Fluid Samples: 0                      Num Gas Bombs:      0                      Serial #:  
Laboratory Name:                      Laboratory Location:  
Recovery Comments:

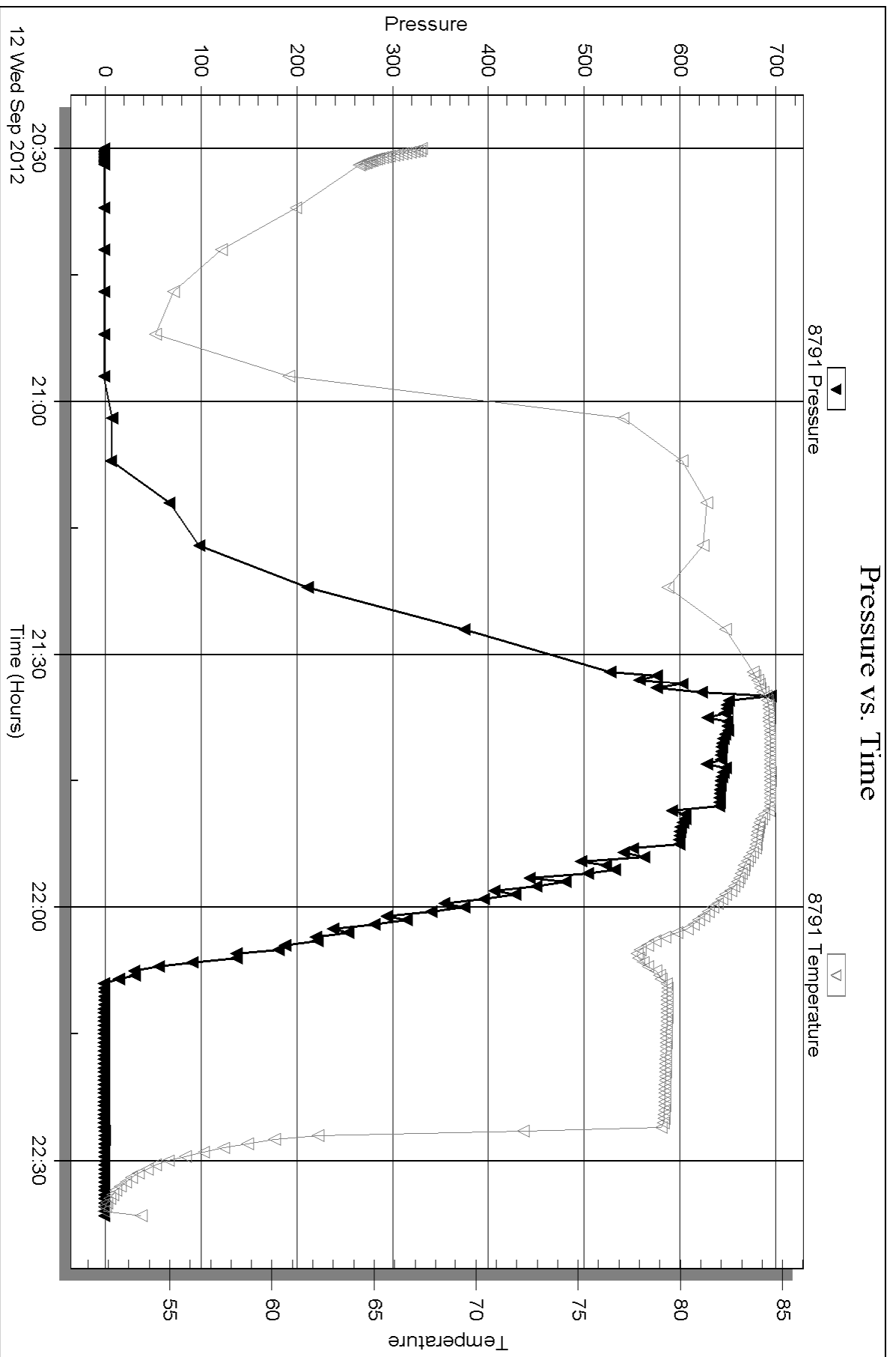
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 2

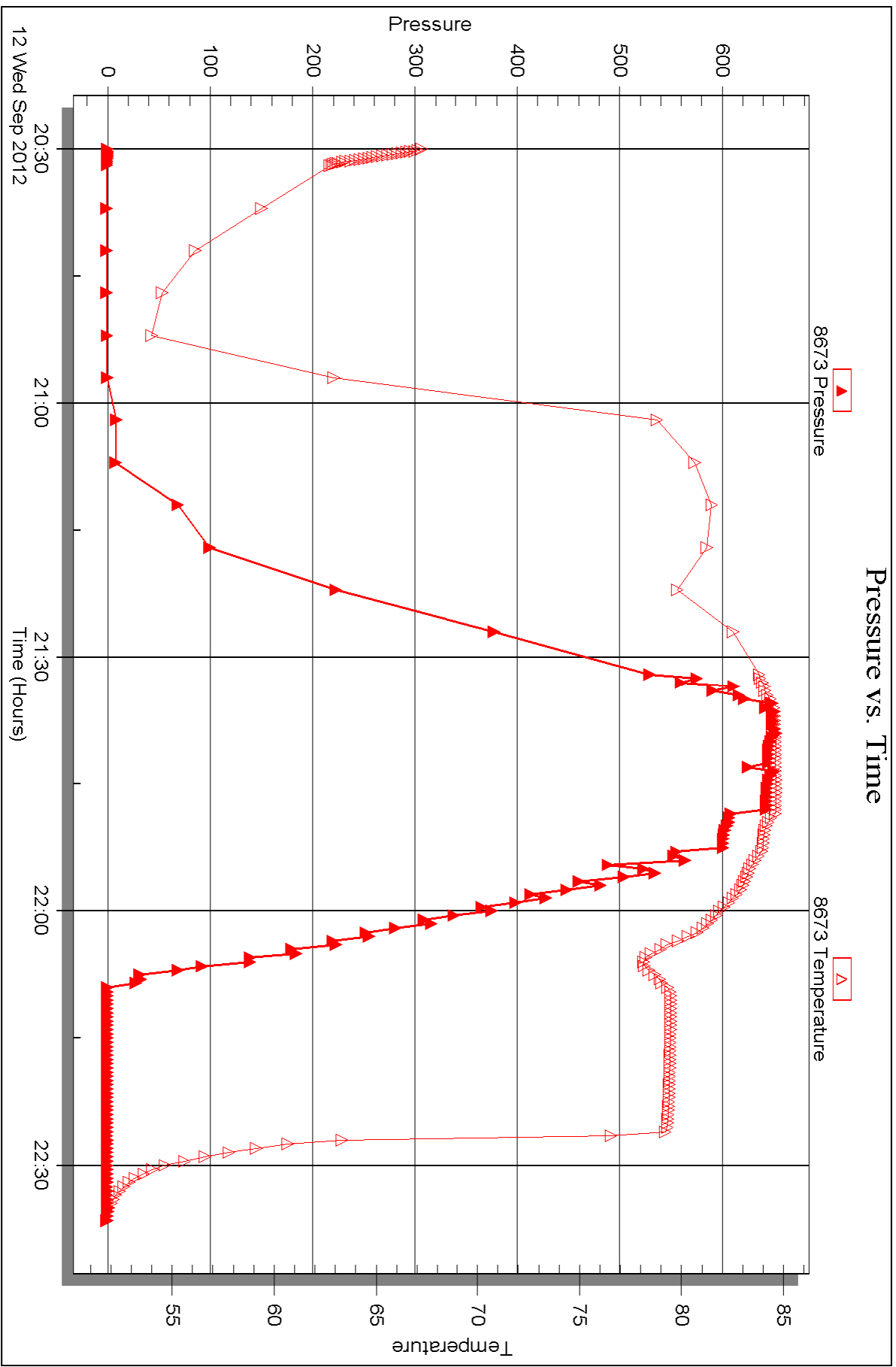


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

### **KSM Ranch #1-36**

### **36-3s-22w Norton,KS**

Start Date: 2012.09.13 @ 02:55:00

End Date: 2012.09.13 @ 09:23:00

Job Ticket #: 46194                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:20:52

Baird Oil Company  
36-3s-22w Norton,KS  
KSM Ranch #1-36  
DST # 3  
LKC-D  
2012.09.13



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46194

**DST#: 3**

ATTN: Richard Bell

Test Start: 2012.09.13 @ 02:55:00

## GENERAL INFORMATION:

Formation: **LKC-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:18:30

Time Test Ended: 09:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3537.00 ft (KB) To 3580.00 ft (KB) (TVD)**

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3580.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8791**

**Inside**

Press @ Run Depth: 28.27 psig @ 3539.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.13

End Date:

2012.09.13

Last Calib.:

2012.09.13

Start Time: 02:55:05

End Time:

09:22:59

Time On Btm:

2012.09.13 @ 05:16:30

Time Off Btm:

2012.09.13 @ 08:00:30

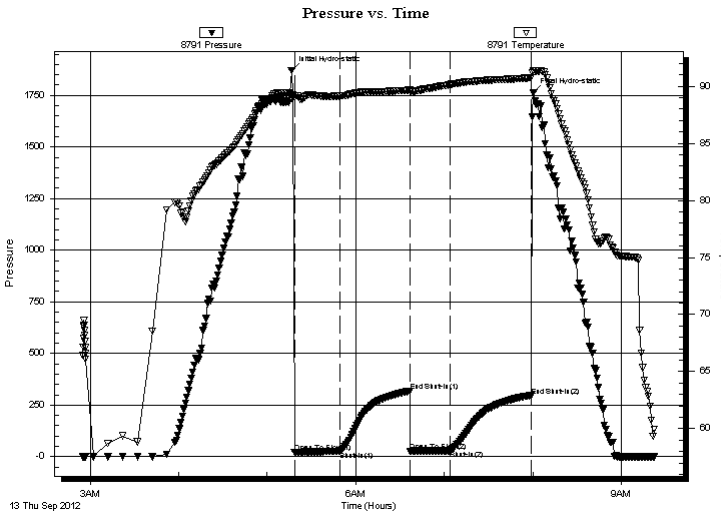
**TEST COMMENT:** IF: Weak blow, Died in 20 mins.

IS: No blow back

FF: No blow

FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.18	88.91	Initial Hydro-static
2	20.18	89.00	Open To Flow (1)
33	24.87	89.14	Shut-In(1)
80	317.21	89.65	End Shut-In(1)
81	26.73	89.57	Open To Flow (2)
108	28.27	90.16	Shut-In(2)
163	294.40	90.73	End Shut-In(2)
164	1763.16	91.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.02

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46194

**DST#: 3**

ATTN: Richard Bell

Test Start: 2012.09.13 @ 02:55:00

## Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 bbl	Tool Weight: 2000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.26 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3537.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			3514.00	
Hydraulic tool	5.00			3519.00	
Jars	5.00			3524.00	
Safety Joint	3.00			3527.00	
Packer	5.00			3532.00	28.00 Bottom Of Top Packer
Packer	5.00			3537.00	
Stubb	1.00			3538.00	
Perforations	1.00			3539.00	
Recorder	0.00	8791	Inside	3539.00	
Recorder	0.00	8673	Outside	3539.00	
Change Over Sub	1.00			3540.00	
Drill Pipe	31.00			3571.00	
Change Over Sub	1.00			3572.00	
Perforations	5.00			3577.00	
Bullnose	3.00			3580.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46194

**DST#: 3**

ATTN: Richard Bell

Test Start: 2012.09.13 @ 02:55:00

## 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

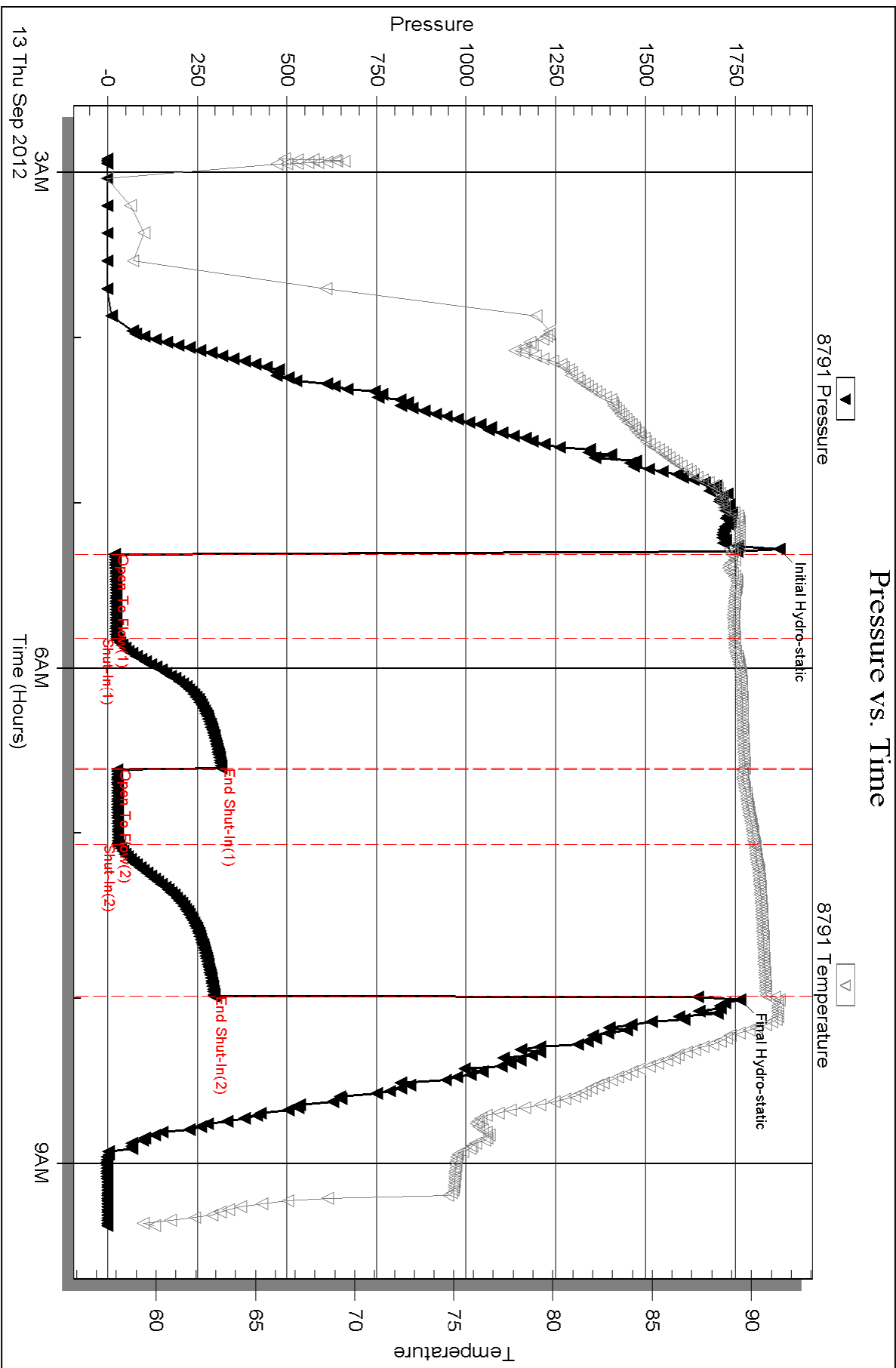
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 3

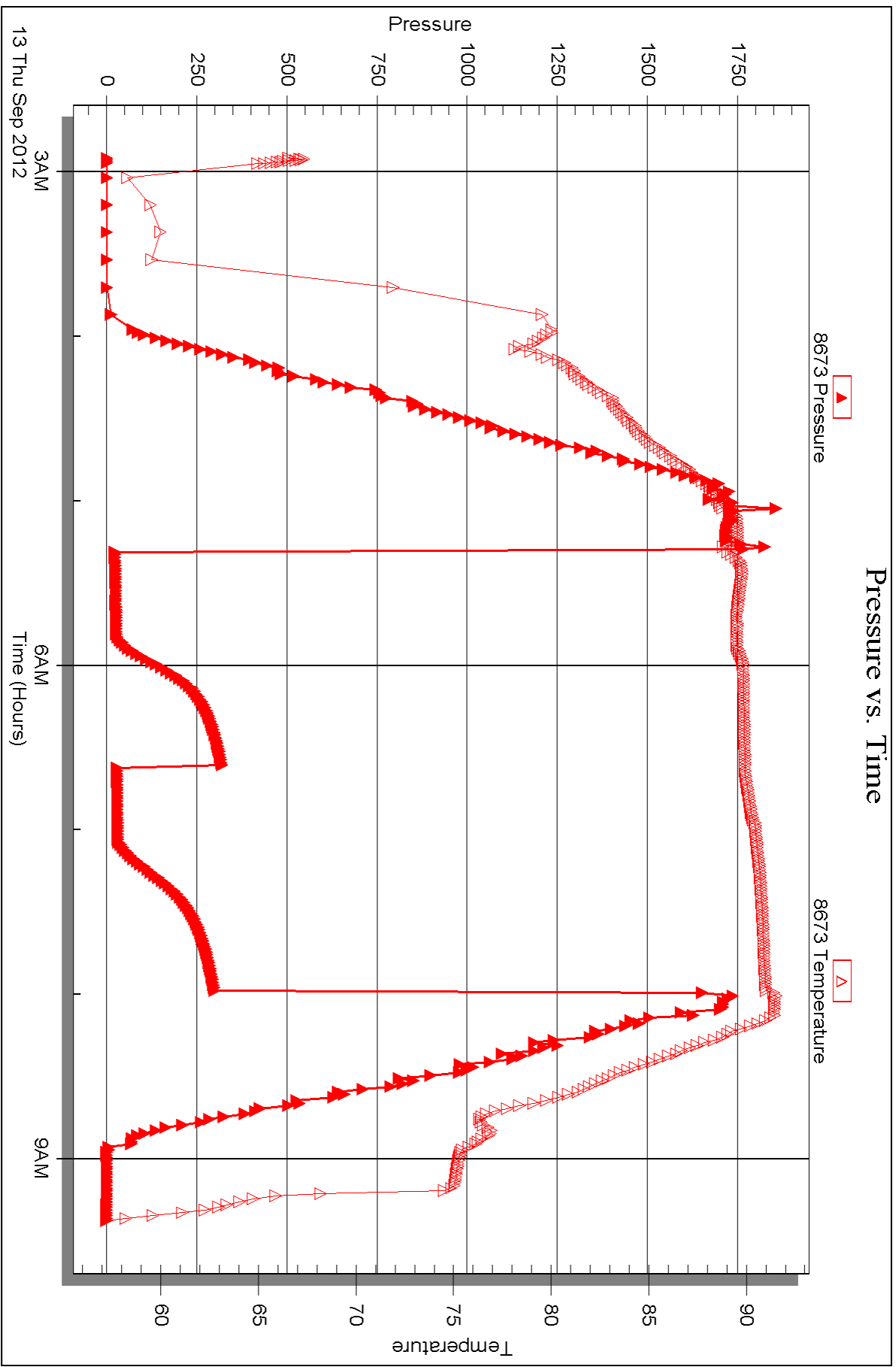


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

### **KSM Ranch #1-36**

### **36-3s-22w Norton,KS**

Start Date: 2012.09.14 @ 02:30:00

End Date: 2012.09.14 @ 07:08:30

Job Ticket #: 46195                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.18 @ 14:19:57

Baird Oil Company

36-3s-22w Norton,KS

KSM Ranch #1-36

DST # 4

Marmaton

2012.09.14



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

ATTN: Richard Bell

Job Ticket: 46195

**DST#: 4**

Test Start: 2012.09.14 @ 02:30:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:30

Time Test Ended: 07:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreutzer Jr.

Unit No: 61

**Interval: 3735.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Reference Elevations: 2283.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2278.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8791 Inside**

Press @ Run Depth: 21.20 psig @ 3736.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.14

End Date:

2012.09.14

Last Calib.: 2012.09.14

Start Time: 02:30:05

End Time:

07:08:29

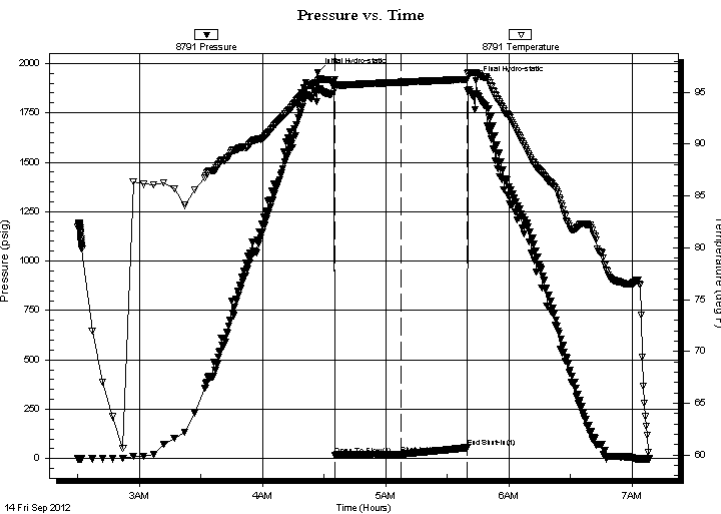
Time On Btm: 2012.09.14 @ 04:27:00

Time Off Btm: 2012.09.14 @ 05:44:00

**TEST COMMENT:** IF: Weak blow, Died in 5 mins.

IS: No blow back.

-----pulled tool-----



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.71	96.12	Initial Hydro-static
9	18.29	95.37	Open To Flow (1)
41	21.20	95.97	Shut-In(1)
73	55.33	96.24	End Shut-In(1)
77	1912.83	96.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46195

**DST#: 4**

ATTN: Richard Bell

Test Start: 2012.09.14 @ 02:30:00

## Tool Information

Drill Pipe:	Length: 3621.00 ft	Diameter: 3.80 inches	Volume: 50.79 bbl	Tool Weight: 2000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.40 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3735.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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			3720.00	
Hydraulic tool	5.00			3725.00	
Packer	5.00			3730.00	20.00 Bottom Of Top Packer
Packer	5.00			3735.00	
Stubb	1.00			3736.00	
Recorder	0.00	8791	Inside	3736.00	
Recorder	0.00	8673	Outside	3736.00	
Perforations	21.00			3757.00	
Bullnose	3.00			3760.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Company

**36-3s-22w Norton, KS**

PO Box 428  
Logan, KS 67646

**KSM Ranch #1-36**

Job Ticket: 46195

**DST#: 4**

ATTN: Richard Bell

Test Start: 2012.09.14 @ 02:30:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

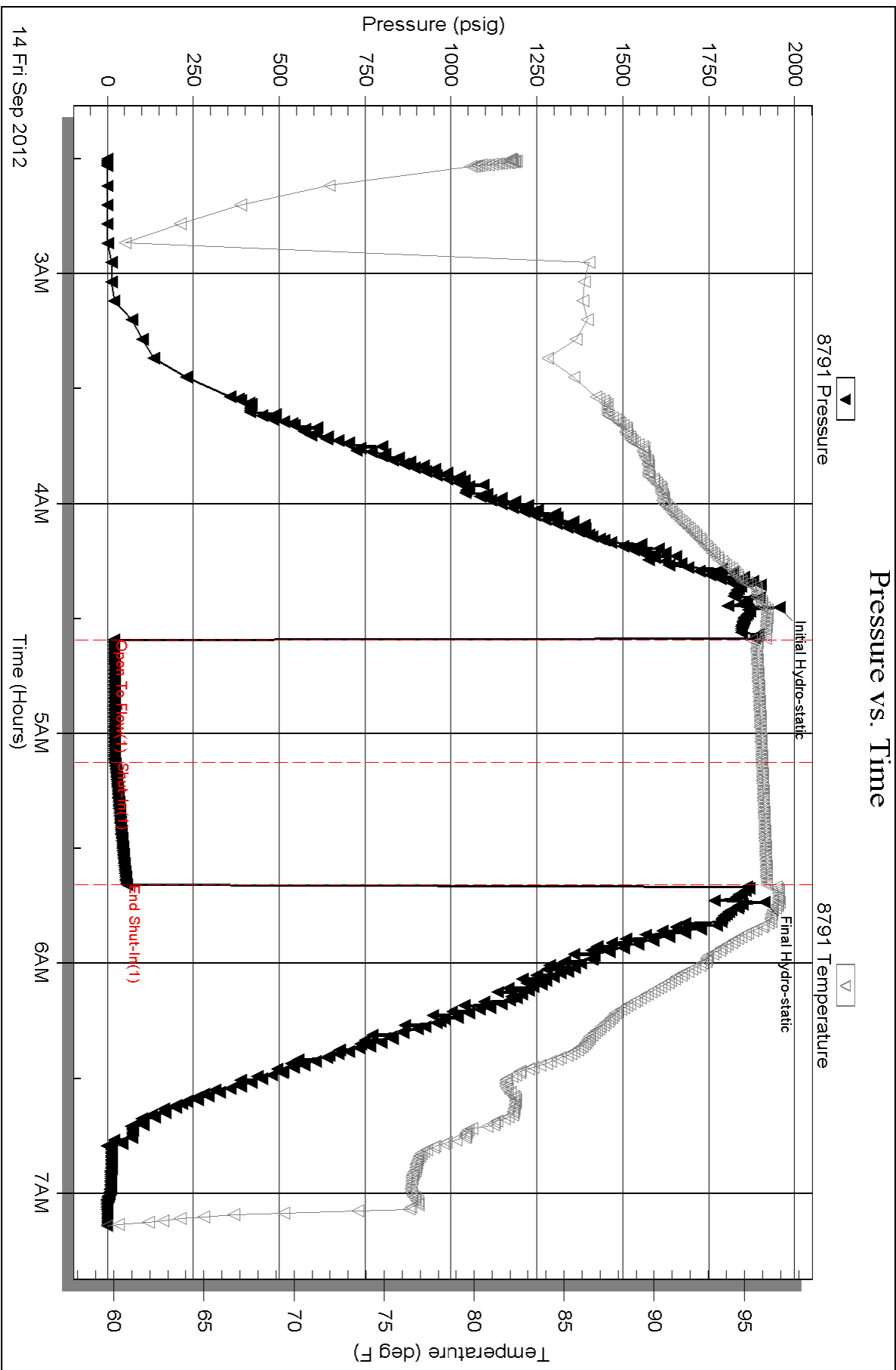
Serial #: 8791

Inside

Baird Oil Company

KSM Ranch #1-36

DST Test Number: 4

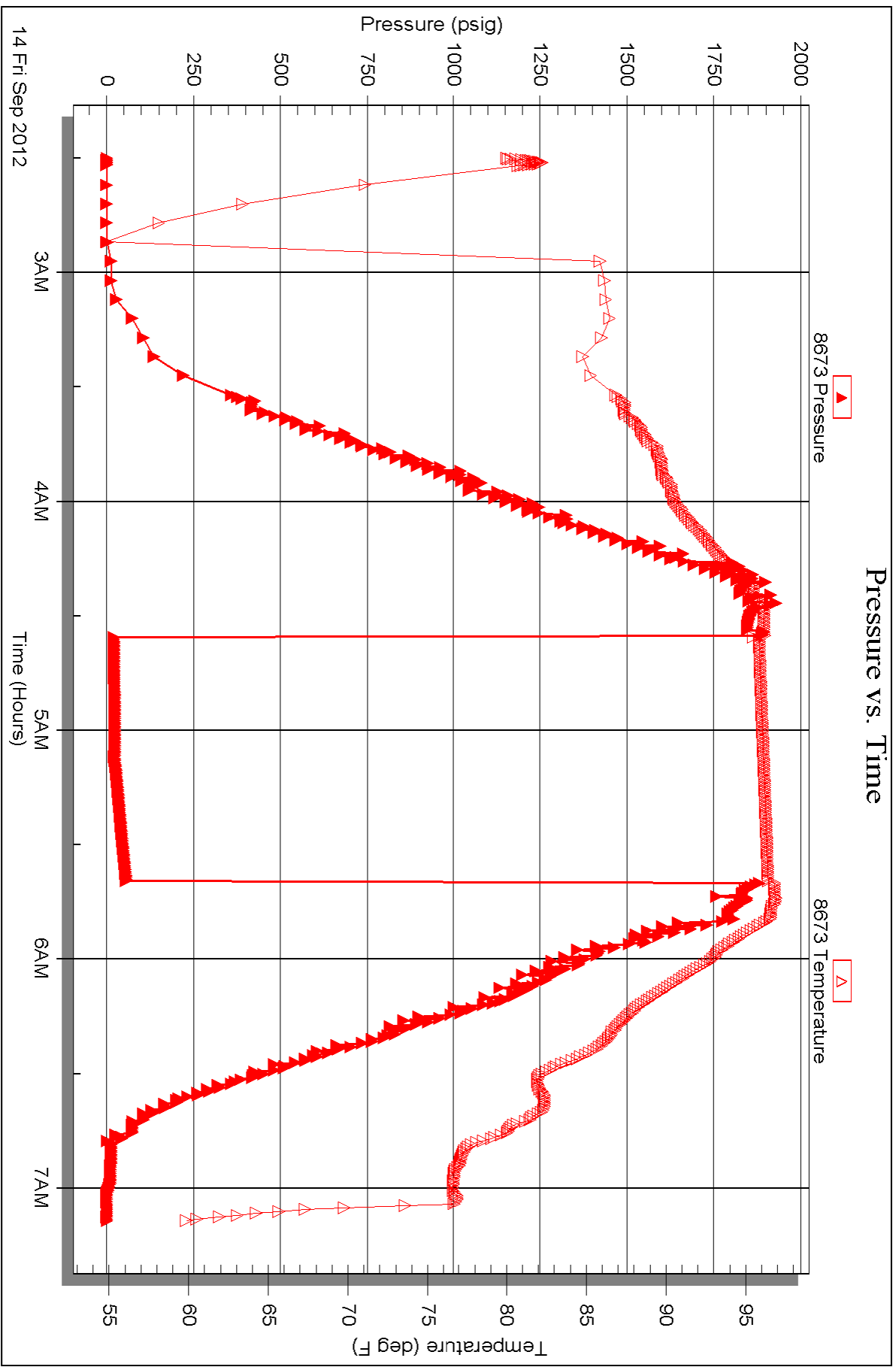


Serial #: 8673

Outside Baird Oil Company

KSM Ranch #1-36

DST Test Number: 4





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 46192

4/10

Well Name & No. KSM Ranch #1-36 Test No. 1 Date 9-12-2012  
 Company Baird oil company Elevation 2283 KB 2278 GL  
 Address P.O. Box 428 Logan, KS 67546  
 Co. Rep / Geo. Richard Bell Rig WW#8  
 Location: Sec. 36 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3513 3537 Zone Tested LKC-A  
 Anchor Length 24 Drill Pipe Run 3399 Mud Wt. 8.8  
 Top Packer Depth 3508 Drill Collars Run 124 Vis 64  
 Bottom Packer Depth 3513 Wt. Pipe Run -0- WL 7.2  
 Total Depth 3537 Chlorides 2000 ppm System LCM 2#

Blow Description IF: Weak blow, Built to 2in over 45 mins  
FSI: No blow back  
FF: Weak blow back, 1/2 in over 45 mins.  
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>Feet of water with 3 in. Free oil!</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 126 BHT 96.6 Gravity \_\_\_\_\_ API RW .22 @ 65 °F Chlorides 3600 ppm

(A) Initial Hydrostatic <u>1735</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:25</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars _____	T-Started <u>4:45</u>
(C) First Final Flow <u>76</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>6:15</u>
(D) Initial Shut-In <u>804</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>9:20</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:48</u>
(F) Second Final Flow <u>90</u>	<input checked="" type="checkbox"/> Mileage <u>50 x 2 = 100 x 1.55</u> <u>155</u>	Comments _____
(G) Final Shut-In <u>108</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1718</u>	<input type="checkbox"/> Straddle _____	
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1305</u>
Final Flow <u>45</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
Final Shut-In <u>46</u>	Sub Total <u>1305</u>	

Approved By \_\_\_\_\_ Our Representative Chuck Hoyer

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 46193

4/10

Well Name & No. KSM - Ranch #1-36 Test No. 2 Date 9-12-2012  
 Company Barco oil company Elevation 2283 KB 2278 GL  
 Address P.O. Box ~~2278~~ Logan, KS 67646  
 Co. Rep / Geo. Rich Beo Rig WW# 8  
 Location: Sec. 36 Twp. 35 Rge. 22w Co. Norton State KS

Interval Tested 3537 3580 Zone Tested LKC-D  
 Anchor Length 43 Drill Pipe Run 3397 Mud Wt. 9.0  
 Top Packer Depth 3532 Drill Collars Run 124 Vis 56  
 Bottom Packer Depth 3537 Wt. Pipe Run 0- WL 8.0  
 Total Depth 3580 Chlorides 4600 ppm System LCM 1.5#  
 Blow Description Hit a Bridge tripping in with tool at 2000 ft Hyd.

HIT Bridge at 2000ft Hyd.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 950 \_\_\_\_\_ T-On Location 20:15  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 20:30  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 2130 ~~2030~~  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 2230  
 (F) Second Final Flow \_\_\_\_\_  Mileage 50KB = 100 x 1.55 155 \_\_\_\_\_ Comments Never Left location  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1105  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1105

Approved By \_\_\_\_\_ Our Representative Chuck [Signature]

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## Test Ticket

NO. 46194

Well Name & No. KSM - Ranch # 1-36 Test No. 3 Date 9-13-2012  
 Company Baird oil company Elevation 2283 KB 2278 GL  
 Address P.O. Box ~~2283~~ Logan KS, 67646  
 Co. Rep / Geo. Rich Bell Rig WW-# 8  
 Location: Sec. 36 Twp. 35 Rge. 22W Co. Norton State KS

Interval Tested 3537 3580 Zone Tested LKC-0  
 Anchor Length 43 Drill Pipe Run 3347 Mud Wt. 9.0  
 Top Packer Depth 3532 Drill Collars Run 124 Vis 56  
 Bottom Packer Depth 3537 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3580 Chlorides 4600 ppm System LCM 1.5#

Blow Description IF: weak blow, died 20 mins.  
ISI: No blow back  
FF: No blow  
FSE: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 90 Gravity 1150 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 1871  Test 1150 T-On Location \_\_\_\_\_  
 (B) First Initial Flow 20  Jars 250 T-Started 2:55  
 (C) First Final Flow 25  Safety Joint 75 T-Open 5:18  
 (D) Initial Shut-In 317  Circ Sub \_\_\_\_\_ T-Pulled 8:00  
 (E) Second Initial Flow 27  Hourly Standby \_\_\_\_\_ T-Out 9:23  
 (F) Second Final Flow 28  Mileage \_\_\_\_\_ Comments Never Left Location  
 (G) Final Shut-In 294  Sampler \_\_\_\_\_ Between DST #2 & DST #3  
 (H) Final Hydrostatic 1763  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1475  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1475

Approved By \_\_\_\_\_ Our Representative check  
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## Test Ticket

NO. 46195

4/10

Well Name & No. KSM - Ranch #1-36 Test No. 4 Date 9-14-2012  
 Company Board oil company Elevation 2283 KB 2278 GL  
 Address P.O. Box Logan KS 67646  
 Co. Rep / Geo. Rich Bell Rig ww# 8  
 Location: Sec. 36 Twp. 3E Rge. 22W Co. Morton State KS

Interval Tested 3735 3760 Zone Tested TRC mormaton  
 Anchor Length 25 Drill Pipe Run 3621 Mud Wt. 9.1  
 Top Packer Depth 3730 Drill Collars Run 124 Vis 5A  
 Bottom Packer Depth 3735 Wt. Pipe Run 0 WL 2.6  
 Total Depth 3760 Chlorides 3200 ppm System LCM 1#  
 Blow Description IF: Weak blow, Dried in 5 mins.  
ISF: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				

Rec Total 5 BHT 96.2 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1955</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2:30</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:30</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:35</u>
(D) Initial Shut-In <u>55</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled _____
(E) Second Initial Flow <u>1913</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:08</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>50x2 = 100x1.55</u> 155	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic _____	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow _____	<input type="checkbox"/> Extra Recorder _____	Total <u>1550</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1550</u>	

Approved By \_\_\_\_\_ Our Representative Chuck Hays  
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