



## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co. Inc.**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Anna #2-15**

**15-4s-21w Norton,KS**

Start Date: 2013.03.20 @ 06:25:00

End Date: 2013.03.20 @ 13:10:45

Job Ticket #: 50573                      DST #: 1

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

Printed: 2013.03.25 @ 14:23:10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Co. Inc.

**15-4s-21w Norton, KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50573

**DST#: 1**

ATTN: Richard Bell

Test Start: 2013.03.20 @ 06:25:00

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:15

Time Test Ended: 13:10:45

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

**Interval: 3443.00 ft (KB) To 3465.00 ft (KB) (TVD)**

Reference Elevations: 2190.00 ft (KB)

Total Depth: 3465.00 ft (KB) (TVD)

2182.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 6719

Inside

Press @ Run Depth: 96.33 psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.20 End Date: 2013.03.20

Last Calib.: 2013.03.20

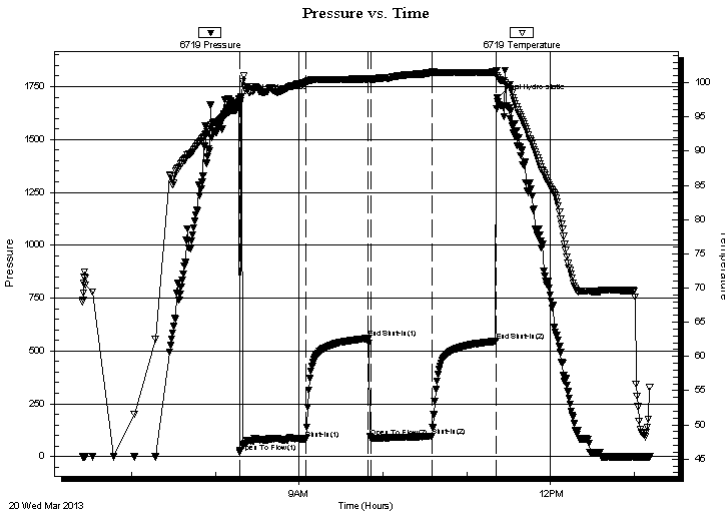
Start Time: 06:25:05 End Time: 13:10:44

Time On Btm: 2013.03.20 @ 08:17:00

Time Off Btm: 2013.03.20 @ 11:21:45

**TEST COMMENT:** 45 - IF: 4 1/2" surge blow, built to 10"  
45 - IS: Bled off, Weak surface blow back - did not build  
45 - FF: Blow built to 6"  
45 - FS: Bled off, No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.78	97.16	Initial Hydro-static
1	21.24	96.87	Open To Flow (1)
48	84.61	100.16	Shut-In(1)
93	558.83	100.55	End Shut-In(1)
94	89.86	100.40	Open To Flow (2)
138	96.33	101.49	Shut-In(2)
184	545.82	101.52	End Shut-In(2)
185	1695.02	101.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCWM 45% <i>m</i> , 43% <i>w</i> , 6% <i>o</i> , 6% <i>g</i>	0.30
61.00	WOM 42% <i>m</i> , 33% <i>o</i> , 20% <i>w</i> , 5% <i>g</i>	0.30
69.00	OCM 76% <i>m</i> , 23% <i>o</i> , 1% <i>g</i>	0.97
5.00	CO 95% <i>o</i> , 3% <i>m</i> , 2% <i>g</i>	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Baird Oil Co. Inc.

**15-4s-21w Norton,KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50573

**DST#: 1**

ATTN: Richard Bell

Test Start: 2013.03.20 @ 06:25:00

## Tool Information

Drill Pipe:	Length: 3313.00 ft	Diameter: 3.80 inches	Volume: 46.47 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 47.07 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3443.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Losing mud at open - pulled and reset tool  
lost another 15 - 20' of mud at open then held - 4 1/2" surge blow

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3428.00	
Hydraulic tool	5.00			3433.00	
Packer	5.00			3438.00	20.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Stubb	1.00			3444.00	
Recorder	0.00	6719	Inside	3444.00	
Recorder	0.00	8320	Outside	3444.00	
Perforations	18.00			3462.00	
Bullnose	3.00			3465.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co. Inc.

**15-4s-21w Norton,KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50573

**DST#: 1**

ATTN: Richard Bell

Test Start: 2013.03.20 @ 06:25:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCWM 45%m, 43%w , 6%o, 6%g	0.295
61.00	WOM 42%m, 33%o, 20%w , 5%g	0.300
69.00	OCM 76%m, 23%o, 1%g	0.968
5.00	CO 95%o, 3%m, 2%g	0.070

Total Length: 195.00 ft

Total Volume: 1.633 bbl

Num Fluid Samples: 0

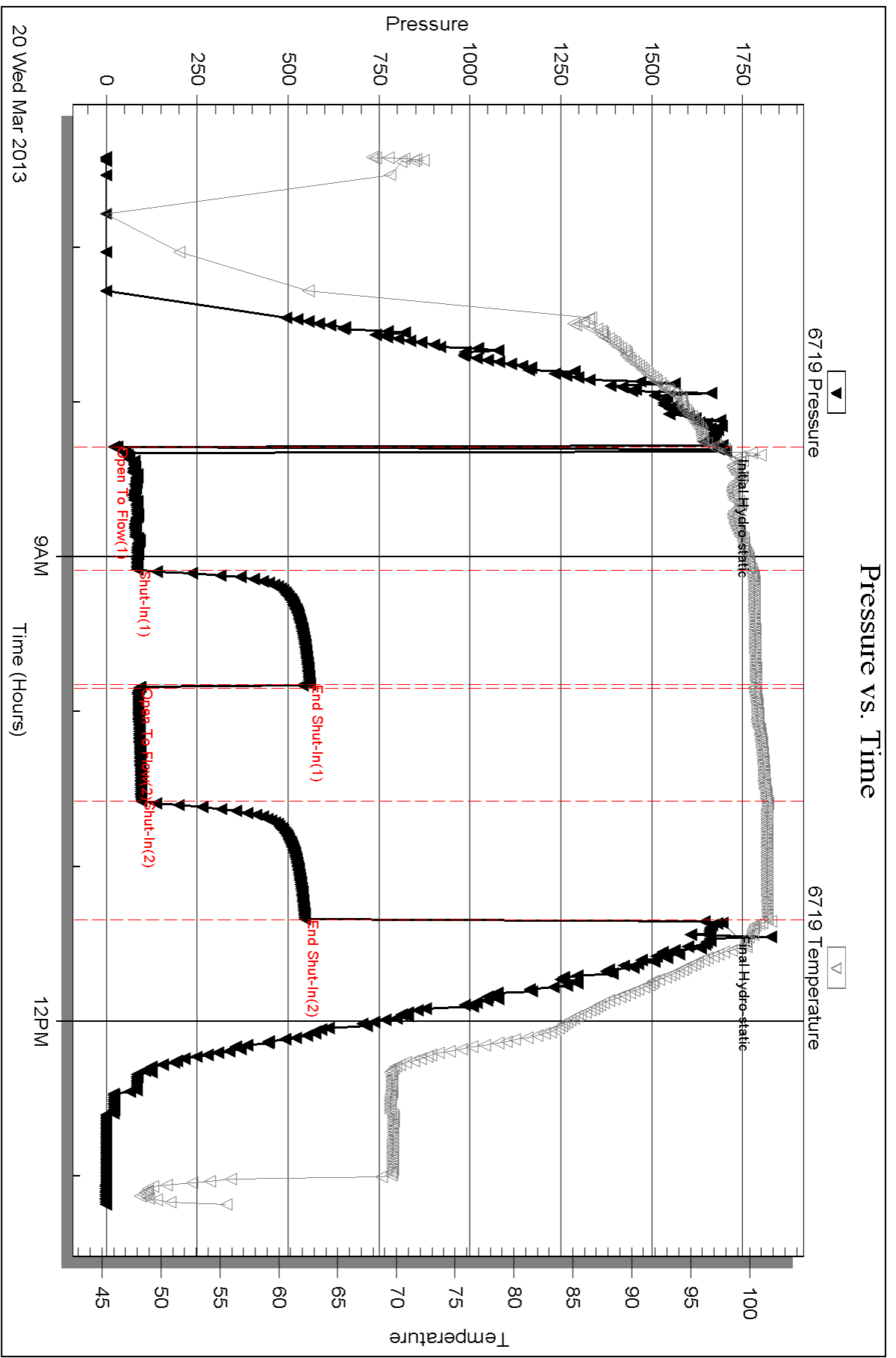
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 30 api @ 62 deg F Corrected Gravity = 29.8 api  
RW = .436 ohms @ 59.8 deg F Chlorides = 18,000 ppm

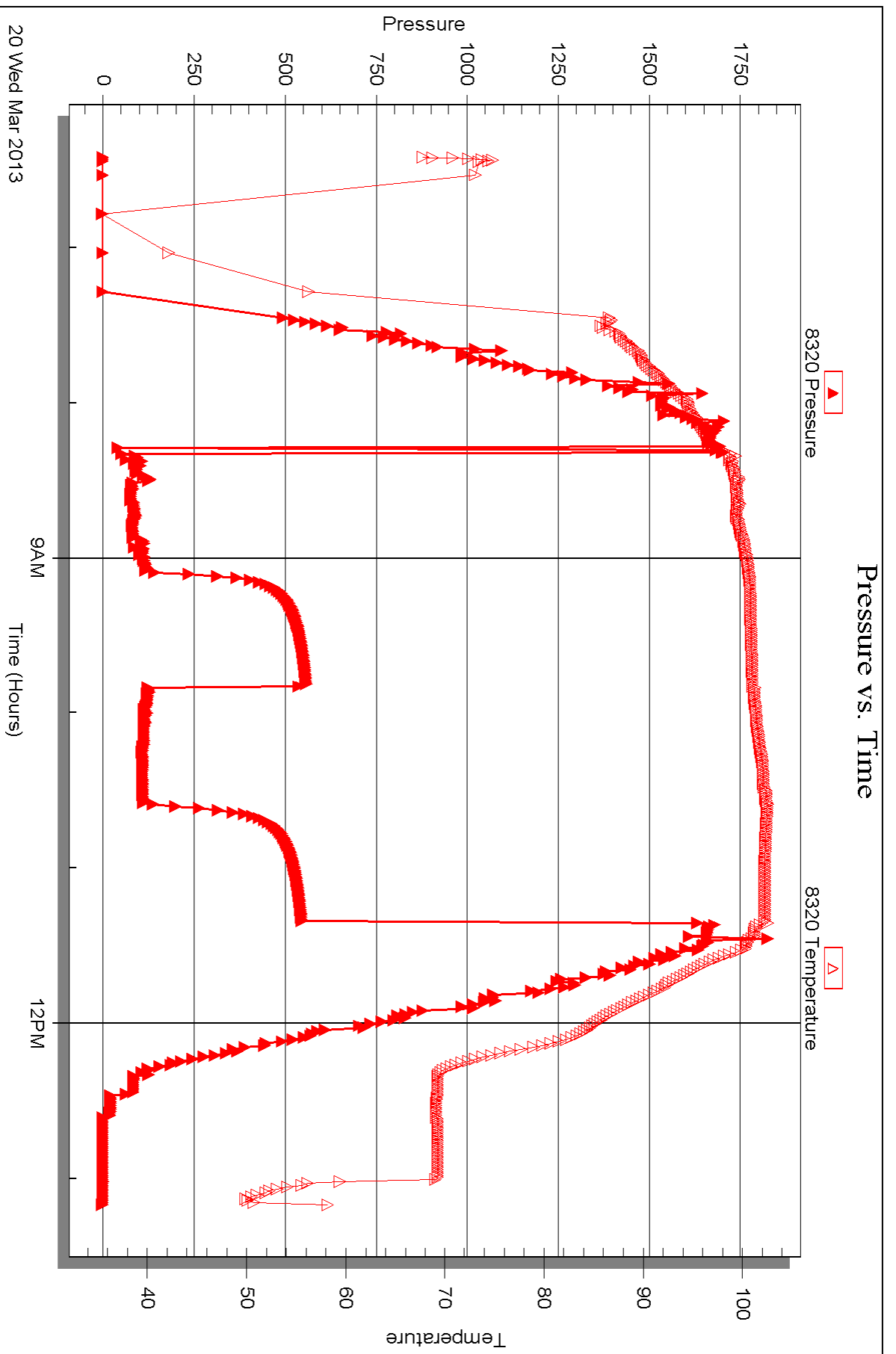


Serial #: 8320

Outside Baird Oil Co. Inc.

Anna #2-15

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co. Inc.**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Anna #2-15**

**15-4s-21w Norton,KS**

Start Date: 2013.03.20 @ 18:40:00

End Date: 2013.03.20 @ 22:48:30

Job Ticket #: 50574                      DST #: 2

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

Printed: 2013.03.25 @ 14:14:59

Baird Oil Co. Inc. 15-4s-21w Norton,KS Anna #2-15 DST # 2 LKC "D" 2013.03.20





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Co. Inc.

**15-4s-21w Norton, KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50574

**DST#: 2**

ATTN: Richard Bell

Test Start: 2013.03.20 @ 18:40:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:13:00

Time Test Ended: 22:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

**Interval: 3461.00 ft (KB) To 3482.00 ft (KB) (TVD)**

Reference Elevations: 2190.00 ft (KB)

Total Depth: 3482.00 ft (KB) (TVD)

2182.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 84.62 psig @ 3462.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.20

End Date: 2013.03.20

Last Calib.: 2013.03.20

Start Time: 18:40:05

End Time: 22:48:30

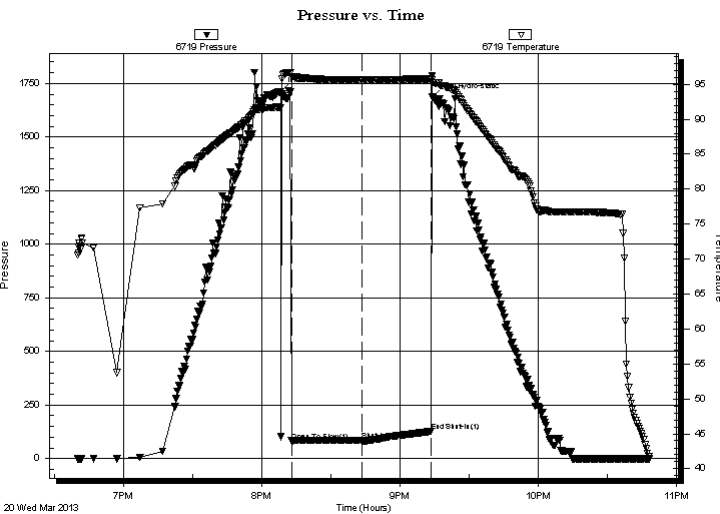
Time On Btm: 2013.03.20 @ 20:08:00

Time Off Btm: 2013.03.20 @ 21:14:00

**TEST COMMENT:** 30 - IF: Just under 1/2" blow at open, built to 1/2" then died back, dead at 22 min.

30 - IS: No blow back

Pulled Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.13	91.70	Initial Hydro-static
5	82.43	96.10	Open To Flow (1)
36	84.62	95.67	Shut-In(1)
66	126.42	95.76	End Shut-In(1)
66	1686.26	95.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
145.00	Mud 100%	0.93

\* 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 Co. Inc.

**15-4s-21w Norton,KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50574

**DST#: 2**

ATTN: Richard Bell

Test Start: 2013.03.20 @ 18:40:00

## Tool Information

Drill Pipe:	Length: 3344.00 ft	Diameter: 3.80 inches	Volume: 46.91 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:	30000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 47.51 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3461.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Losing mud at open (20' - 30') pulled tool, reset  
lost 2' of mud at open then held - just under 1/2" blow at open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3446.00	
Hydraulic tool	5.00			3451.00	
Packer	5.00			3456.00	20.00 Bottom Of Top Packer
Packer	5.00			3461.00	
Stubb	1.00			3462.00	
Recorder	0.00	6719	Inside	3462.00	
Recorder	0.00	8320	Outside	3462.00	
Perforations	17.00			3479.00	
Bullnose	3.00			3482.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Baird Oil Co. Inc.

**15-4s-21w Norton,KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50574

**DST#: 2**

ATTN: Richard Bell

Test Start: 2013.03.20 @ 18:40:00

**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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
145.00	Mud 100%	0.932

Total Length: 145.00 ft      Total Volume: 0.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

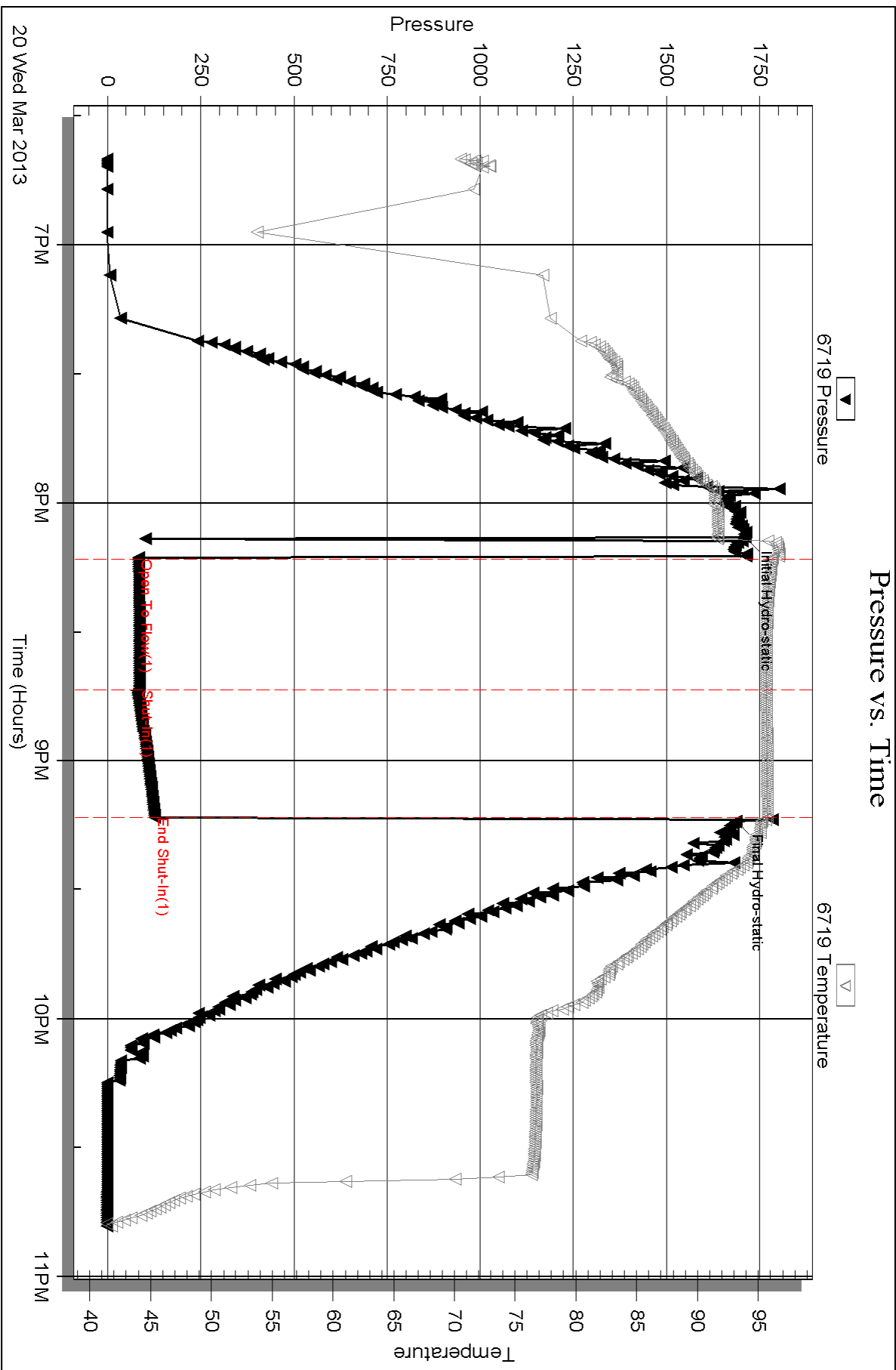
Serial #: 6719

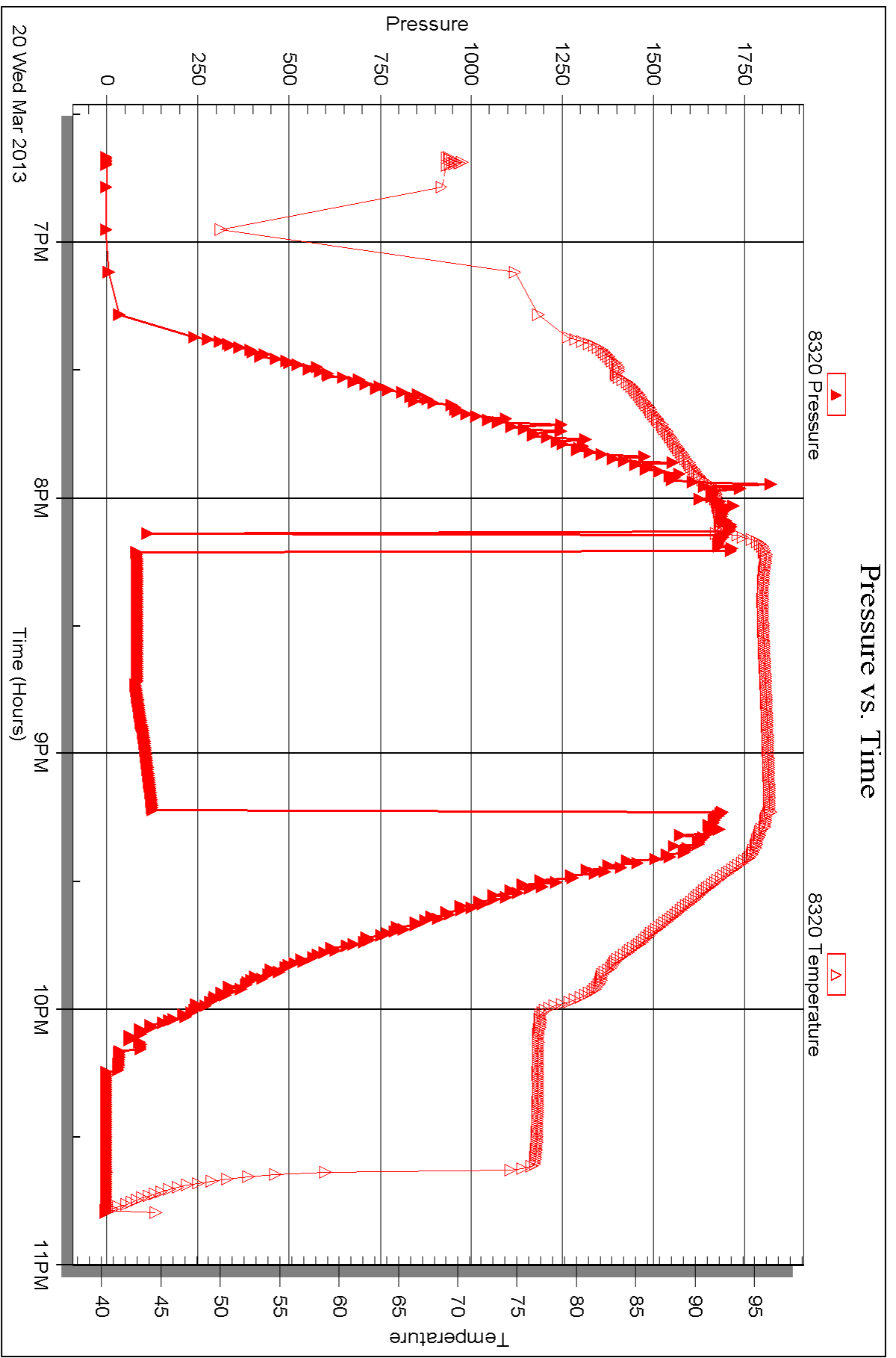
Inside

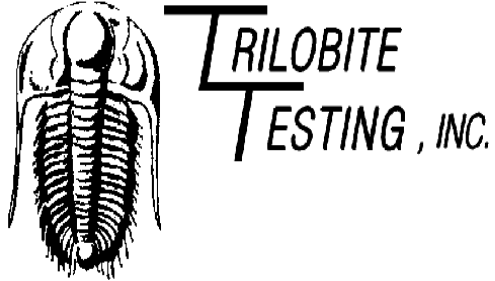
Baird Oil Co. Inc.

Anna #2-15

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co. Inc.**

PO Box 428  
Logan, KS 67646

ATTN: Richard Bell

**Anna #2-15**

**15-4s-21w Norton,KS**

Start Date: 2013.03.21 @ 15:30:00

End Date: 2013.03.21 @ 20:30:45

Job Ticket #: 50575                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.25 @ 14:13:52



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Baird Oil Co. Inc.

**15-4s-21w Norton, KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50575

**DST#: 3**

ATTN: Richard Bell

Test Start: 2013.03.21 @ 15:30:00

## GENERAL INFORMATION:

Formation: **LKC "I, J, K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:02:00

Time Test Ended: 20:30:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

**Interval: 3550.00 ft (KB) To 3602.00 ft (KB) (TVD)**

Reference Elevations: 2190.00 ft (KB)

Total Depth: 3602.00 ft (KB) (TVD)

2182.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6719**

**Inside**

Press @ Run Depth: 27.37 psig @ 3551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.21

End Date:

2013.03.21

Last Calib.:

2013.03.21

Start Time: 15:30:05

End Time:

20:30:44

Time On Btm:

2013.03.21 @ 17:01:45

Time Off Btm:

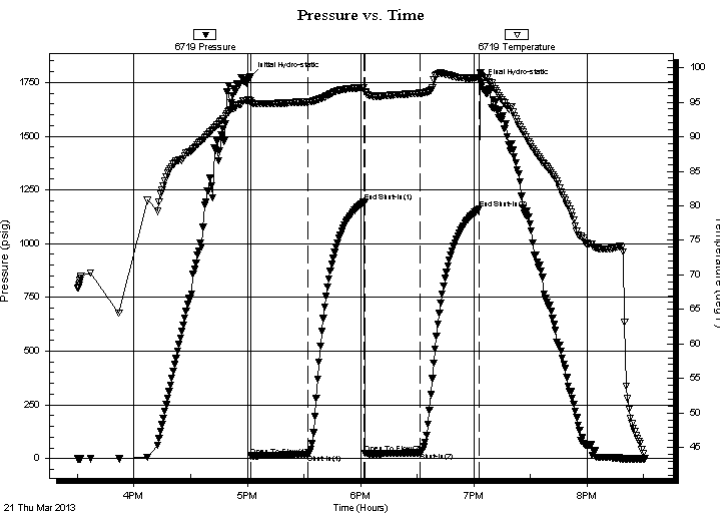
2013.03.21 @ 19:03:45

**TEST COMMENT:** 30 - IF: Weak intermittent blow built to just over 1/4"

30 - IS: Bled off, No blow back

30 - FF: No blow

30 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1777.46	95.26	Initial Hydro-static
1	12.29	94.95	Open To Flow (1)
31	19.73	95.06	Shut-In(1)
60	1195.23	97.16	End Shut-In(1)
61	23.42	96.52	Open To Flow (2)
90	27.37	96.32	Shut-In(2)
122	1162.31	98.61	End Shut-In(2)
122	1743.98	98.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w /trace w ater 99%w, 1%w	0.15

\* 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 Co. Inc.

**15-4s-21w Norton,KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50575

**DST#: 3**

ATTN: Richard Bell

Test Start: 2013.03.21 @ 15:30:00

## Tool Information

Drill Pipe:	Length: 3437.00 ft	Diameter: 3.80 inches	Volume: 48.21 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 48.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3550.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			3535.00	
Hydraulic tool	5.00			3540.00	
Packer	5.00			3545.00	20.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Recorder	0.00	6719	Inside	3551.00	
Recorder	0.00	8320	Outside	3551.00	
Perforations	10.00			3561.00	
Blank Spacing	33.00			3594.00	
Perforations	5.00			3599.00	
Bullnose	3.00			3602.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Co. Inc.

**15-4s-21w Norton, KS**

PO Box 428  
Logan, KS 67646

**Anna #2-15**

Job Ticket: 50575

**DST#: 3**

ATTN: Richard Bell

Test Start: 2013.03.21 @ 15:30:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w /trace w water 99%w, 1%w	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

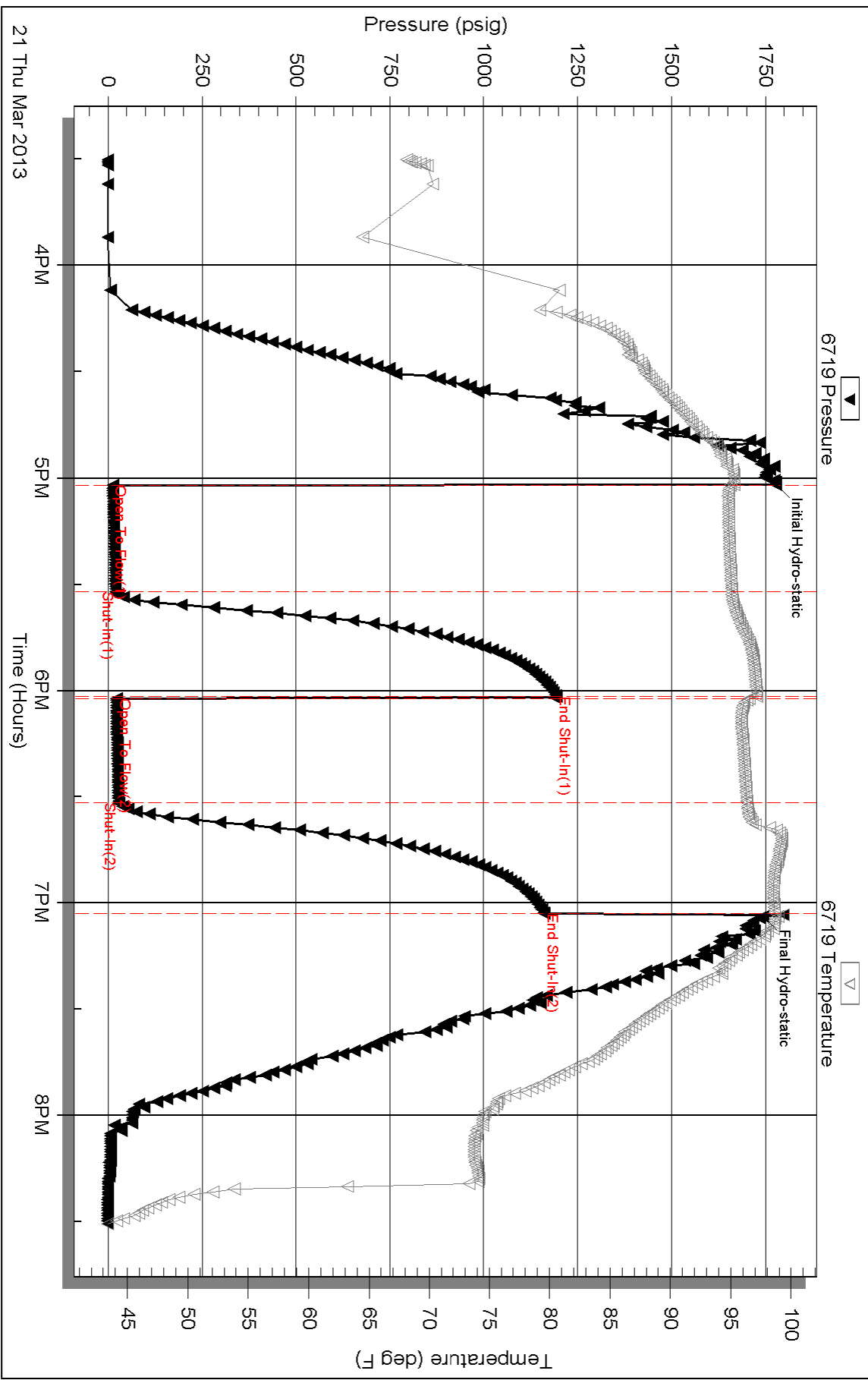
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

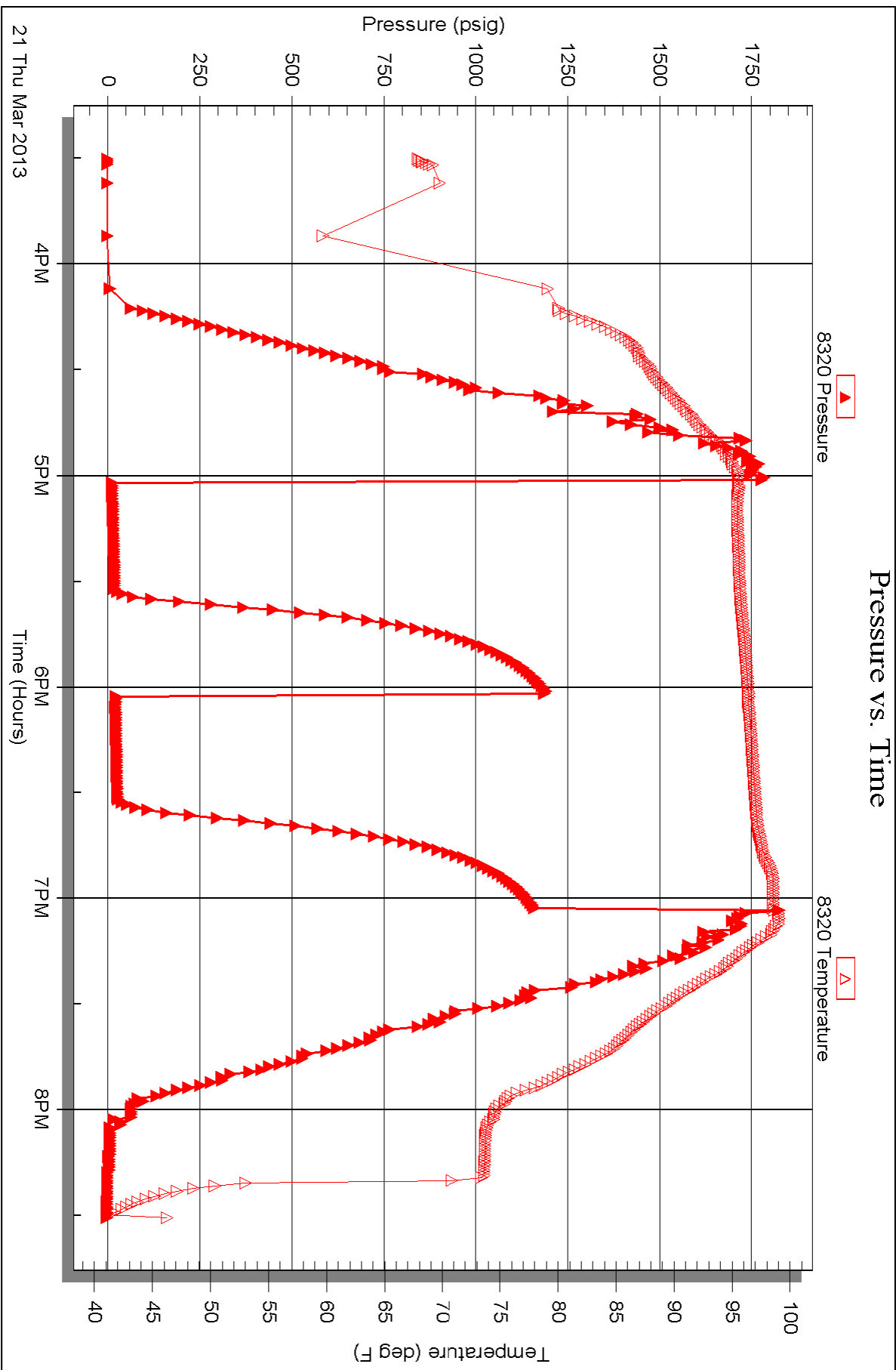


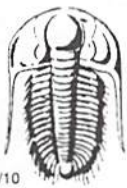
Serial #: 8320

Outside Baird Oil Co. Inc.

Anna #2-15

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50573

4/10

Well Name & No. Anna # 2-15 Test No. 1 Date 3-20-13  
 Company Baird Oil Co. ~~Inc.~~ LLC Elevation 2190 KB 2182 GL  
 Address PO Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 15 Twp. 4s Rge. 21w Co. Norton State KS

Interval Tested 3443-3465 Zone Tested LKC "C"  
 Anchor Length 22 Drill Pipe Run 3313 Mud Wt. 9.1  
 Top Packer Depth 3438 Drill Collars Run ~~120~~ 121 Vis 57  
 Bottom Packer Depth 3443 Wt. Pipe Run - WL 6.4  
 Total Depth 3465 Chlorides 1000 ppm System LCM 2

Blow Description IF: 4 1/2" surge blow, built to 10"  
ISI: Bled off, surface blowback - did not build  
FF: Blow built to 6"  
FST: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>CO</u>	<u>2</u>	<u>95</u>	<u>-</u>	<u>3</u>
<u>69</u>	<u>OCM</u>	<u>1</u>	<u>23</u>	<u>-</u>	<u>76</u>
<u>61</u>	<u>WOM</u>	<u>5</u>	<u>33</u>	<u>20</u>	<u>42</u>
<u>60</u>	<u>OCWM</u>	<u>6</u>	<u>6</u>	<u>43</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 195 BHT 102 Gravity 29.8 API RW .436 @ 59.8 °F Chlorides 18,000 ppm

(A) Initial Hydrostatic <u>1694</u>	<input type="checkbox"/> Test <u>X</u> 1150	T-On Location <u>5:40</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>6:25</u>
(C) First Final Flow <u>85</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>8:17</u>
(D) Initial Shut-In <u>559</u>	<input checked="" type="checkbox"/> Circ Sub <u>X NA</u>	T-Pulled <u>11:20</u>
(E) Second Initial Flow <u>90</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>13:00</u>
(F) Second Final Flow <u>96</u>	<input type="checkbox"/> Mileage <u>112 RT</u> 173.60	Comments <u>Set tool - losing mud</u>
(G) Final Shut-In <u>546</u>	<input checked="" type="checkbox"/> Sampler	<u>- Pulled &amp; Reset tool - lost another</u>
(H) Final Hydrostatic <u>1695</u>	<input checked="" type="checkbox"/> Straddle	<u>15:20' of mud then held - 4 1/2" surge blow</u>

Initial Open <u>45</u>	<input checked="" type="checkbox"/> Ruined Shale Packer	<input checked="" type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input checked="" type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input checked="" type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Extra Recorder	Total <u>1323.60</u>
	<input checked="" type="checkbox"/> Day Standby	MP/DST Disc't
	<input checked="" type="checkbox"/> Accessibility	
Sub Total <u>1323.60</u>		

Approved By Richard Bell Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50574

Well Name & No. Anna # 2-15 Test No. 2 Date 3-20-13  
 Company Baird Oil Co. ~~Drill~~ LLC Elevation 2190 KB 2182 GL  
 Address PO Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 15 Twp. 4s Rge. 21w Co. Norton State KS

Interval Tested 3461-3482 Zone Tested LKC "D"  
 Anchor Length 21 Drill Pipe Run 3344 Mud Wt. 9.1  
 Top Packer Depth 3456 Drill Collars Run 121 Vis 58  
 Bottom Packer Depth 3461 Wt. Pipe Run - WL 6.4  
 Total Depth 3482 Chlorides 1200 ppm System LCM 1 1/2  
 Blow Description IF: Just under 1/2" blow at open, built to 1/2" then dled back, dead at 22 min.  
ISI: No blowback  
Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</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 145 BHT 96 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1711</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>18:15</u>
(B) First Initial Flow <u>82</u>	<input checked="" type="checkbox"/> Jars _____	T-Started <u>18:40</u>
(C) First Final Flow <u>85</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>20:13</u>
(D) Initial Shut-In <u>126</u>	<input checked="" type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>21:13</u>
(E) Second Initial Flow <u>-</u>	<input checked="" type="checkbox"/> Hourly Standby _____	T-Out <u>22:45</u>
(F) Second Final Flow <u>-</u>	<input type="checkbox"/> Mileage <u>112 RT</u> 173.60	Comments <u>losing mud (20-30')</u>
(G) Final Shut-In <u>-</u>	<input checked="" type="checkbox"/> Sampler _____	<u>pulled - reset tool - lost 2'</u>
(H) Final Hydrostatic <u>1686</u>	<input checked="" type="checkbox"/> Straddle _____	<u>mud at open then held - 1/2" blow</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input checked="" type="checkbox"/> Extra Packer _____	<input checked="" type="checkbox"/> Ruined Packer _____
Final Flow <u>-</u>	<input checked="" type="checkbox"/> Extra Recorder _____	<input checked="" type="checkbox"/> Extra Copies _____
Final Shut-In <u>-</u>	<input checked="" type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input checked="" type="checkbox"/> Accessibility _____	Total <u>1323.60</u>
	Sub Total <u>1323.60</u>	MP/DST Disc't _____

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50575

4/10

Well Name & No. Anna #2-15 Test No. 3 Date 3-21-13  
 Company Baird Oil Co. ~~Inc~~ LLC Elevation 2190 KB 2182 GL  
 Address PO Box 428 Logan, KS 67646  
 Co. Rep / Geo. Richard Bell Rig WW #12  
 Location: Sec. 15 Twp. 4s Rge. 21w Co. Norton State KS

Interval Tested 3550 - 3602 Zone Tested LKC "I, J, K"  
 Anchor Length 52 Drill Pipe Run 3437 Mud Wt. 9.3  
 Top Packer Depth 3545 Drill Collars Run 121 Vis 50  
 Bottom Packer Depth 3550 Wt. Pipe Run - WL 6.8  
 Total Depth 3602 Chlorides 1900 ppm System LCM 1

Blow Description IF: Weak intermittent blow, built to just over 1/4"  
ISI: Bled off, No blowback  
FF: No blow  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud w/trace water</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>99</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 30 BHT 99 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1777  Test ★ 1150 T-On Location 14:45  
 (B) First Initial Flow 12  Jars T-Started 15:30  
 (C) First Final Flow 20  Safety Joint T-Open 17:02  
 (D) Initial Shut-In 1195  Circ Sub ★ NA T-Pulled 19:03  
 (E) Second Initial Flow 23  Hourly Standby T-Out 20:30  
 (F) Second Final Flow 27  Mileage 112 RT X 2 347.20 Comments \_\_\_\_\_  
 (G) Final Shut-In 1162  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1744  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1497.20  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1497.20

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

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