



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Charles N. Griffin**

PO Box 347
Pratt KS 67124

ATTN: Bruce Reed

Orr #B1

9-32s-12w Barber,KS

Start Date: 2013.06.01 @ 16:54:58

End Date: 2013.06.02 @ 01:35:28

Job Ticket #: 52282 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.05 @ 14:50:08

Charles N. Griffin 9-32s-12w Barber,KS Orr #B1 DST # 1 Elgin 2013.06.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charles N. Griffin

9-32s-12w Barber,KS

PO Box 347
Pratt KS 67124

Orr #B1

Job Ticket: 52282

DST#: 1

ATTN: Bruce Reed

Test Start: 2013.06.01 @ 16:54:58

GENERAL INFORMATION:

Formation: **Egin**
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:43

Time Test Ended: 01:35:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: **3388.00 ft (KB) To 3424.00 ft (KB) (TVD)**

Total Depth: 3424.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1505.00 ft (KB)

1497.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Inside

Press@RunDepth: 164.90 psig @ 3389.00 ft (KB)

Start Date: 2013.06.01

End Date:

2013.06.02

Capacity: 8000.00 psig

Start Time: 16:55:03

End Time:

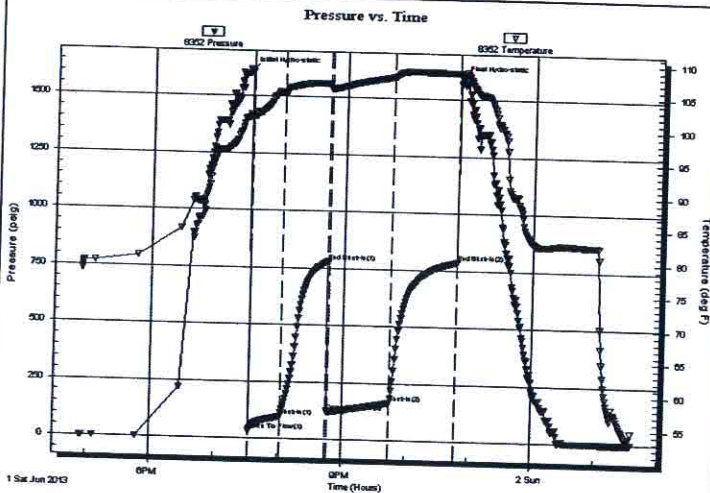
01:35:28

Last Calib.: 2013.06.02

Time On Btm: 2013.06.01 @ 19:29:58

Time Off Btm: 2013.06.01 @ 22:49:13

TEST COMMENT: IF: Strong blow . B.O.B. in 4 mins.
IS: Weak blow . 1/2 - 1".
FF: Strong blow . B.O.B. in 35 secs. GTS in 45 mins. TSTM.
FS: Weak blow . 1/2 - 3 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.89	101.40	Initial Hydro-static
3	32.47	101.56	Open To Flow (1)
32	98.90	105.23	Shut-In(1)
75	780.08	106.57	End Shut-In(1)
76	122.27	105.72	Open To Flow (2)
135	164.90	107.72	Shut-In(2)
198	785.02	108.53	End Shut-In(2)
200	1590.41	108.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GMCO 20%g 16%m 64%o	0.74
185.00	GM&WCO 26%g 22%m 20%w 32%o	2.60
80.00	GOCWM 20%g 6%o 11%w 63%m	1.12

Gas Rates

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

DRILL STEM TEST REPORT



Charles N. Griffin

PO Box 347
Pratt KS 67124

ATTN: Bruce Reed

Test Start: 2013.06.01 @ 16:54:58

Job Ticket: 52282

Ort #B1

9-32s-12w Barber,KS

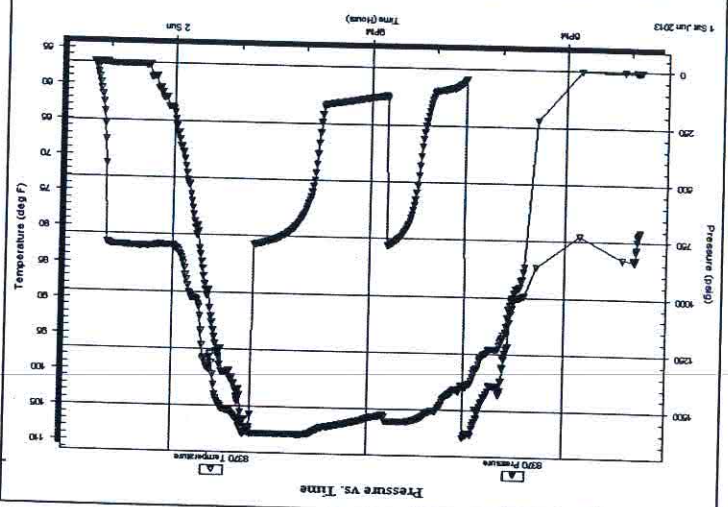
GENERAL INFORMATION:

Formation: Egin
Deviated: No
Whipstock: ft (KB)
Time Tool Opened: 19:32:43
Time Test Ended: 01:35:28
Interval: 3388.00 ft (KB) To 3424.00 ft (KB) (TVD)
Total Depth: 3424.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Poor
Serial #: 8370
Outside
Press@RunDepth: psig @ 3389.00 ft (KB)
Start Date: 2013.06.01
End Date: 2013.06.01
Start Time: 16:50:43
End Time: 01:14:37
Capacity: 8000.00 psig
Last Calib.:
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Strong blow. B.O.B. in 4 mins.
IS:Weak blow. 1/2 - 1"
FS:Strong blow. B.O.B. in 35 secs. GTS in 45 mins. TSTM
FI:Weak blow. 1/2 - 3 1/2".

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation



Recovery

Length (ft)	Description	Volume (bbl)
150.00	GMCO 20%g 16%w 64%o	0.74
185.00	GM&WCO 26%g 22%w 20%w 32%o	2.60
80.00	GOCMM 20%g 6%o 11%w 63%w	1.12

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N. Griffin

9-32s-12w Barber, KS

PO Box 347
Pratt KS 67124

Orr #B1

Job Ticket: 52282

DST#: 1

ATTN: Bruce Reed

Test Start: 2013.06.01 @ 16:54:58

Tool Information

Drill Pipe:	Length: 3231.00 ft	Diameter: 3.80 inches	Volume: 45.32 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 46.06 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3388.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3361.00	
Shut in tool	5.00			3366.00	
HMV	5.00			3371.00	
Jars	5.00			3376.00	
Safety Joint	3.00			3379.00	
Packer	4.00			3383.00	28.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Recorder	0.00	8352	Inside	3389.00	
Recorder	0.00	8370	Outside	3389.00	
Perforations	30.00			3419.00	
Bullnose	5.00			3424.00	
Total Tool Length:	64.00				36.00 Bottom Packers & Anchor



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N. Griffin

9-32s-12w Barber,KS

PO Box 347
Pratt KS 67124

Orr #B1

Job Ticket: 52282

DST#: 1

ATTN: Bruce Reed

Test Start: 2013.06.01 @ 16:54:58

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 9.98 in³

Resistivity: 0.00 ohm.m

Salinity: 4800.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 47000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GMCO 20%g 16%m 64%o	0.738
185.00	GM&WCO 26%g 22%m 20%w 32%o	2.595
80.00	GOCWM 20%g 6%o 11%w 63%m	1.122

Total Length: 415.00 ft

Total Volume: 4.455 bbl

Num Fluid Samples: 0

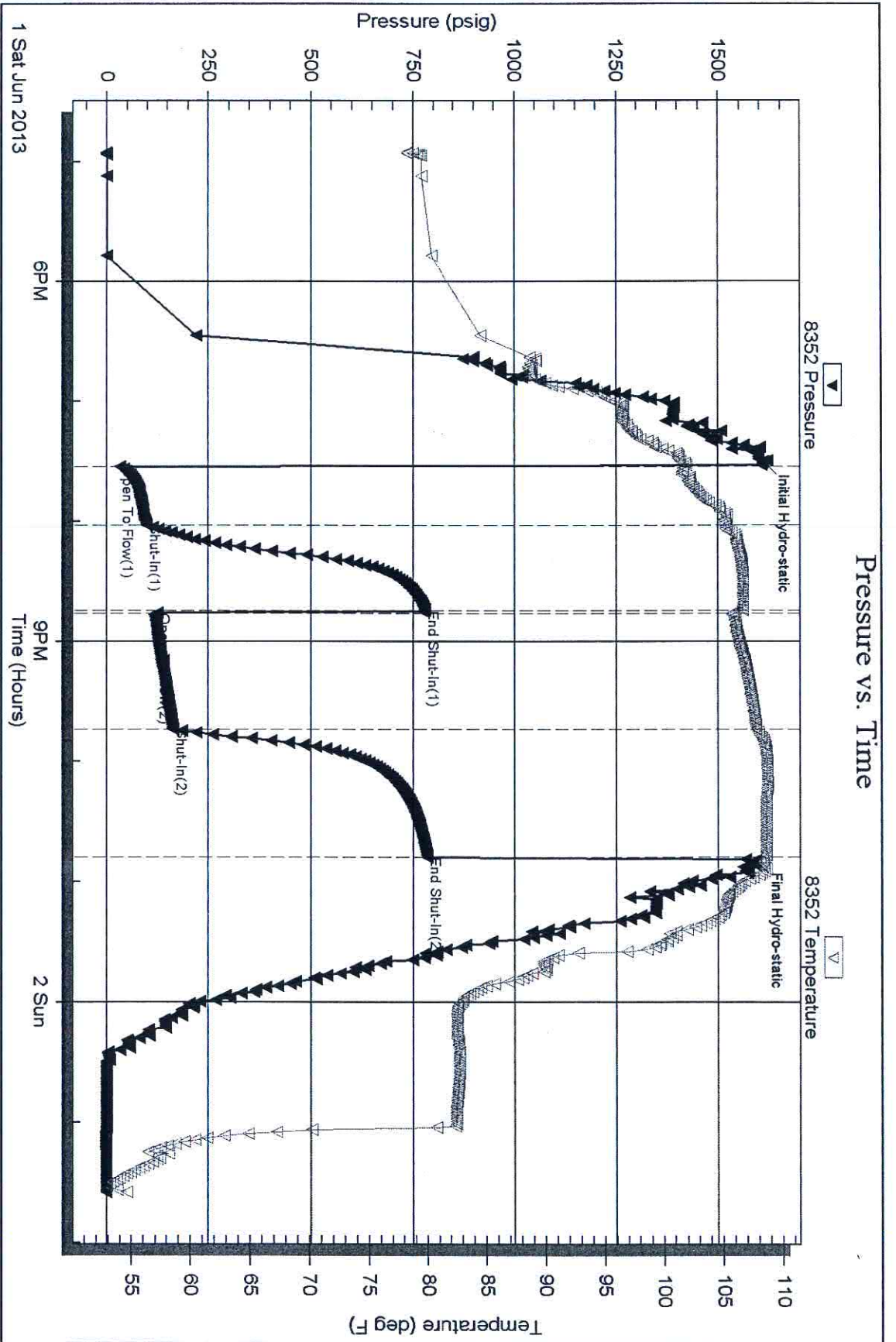
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .2 ohms@ 55 deg



Serial #: 8370

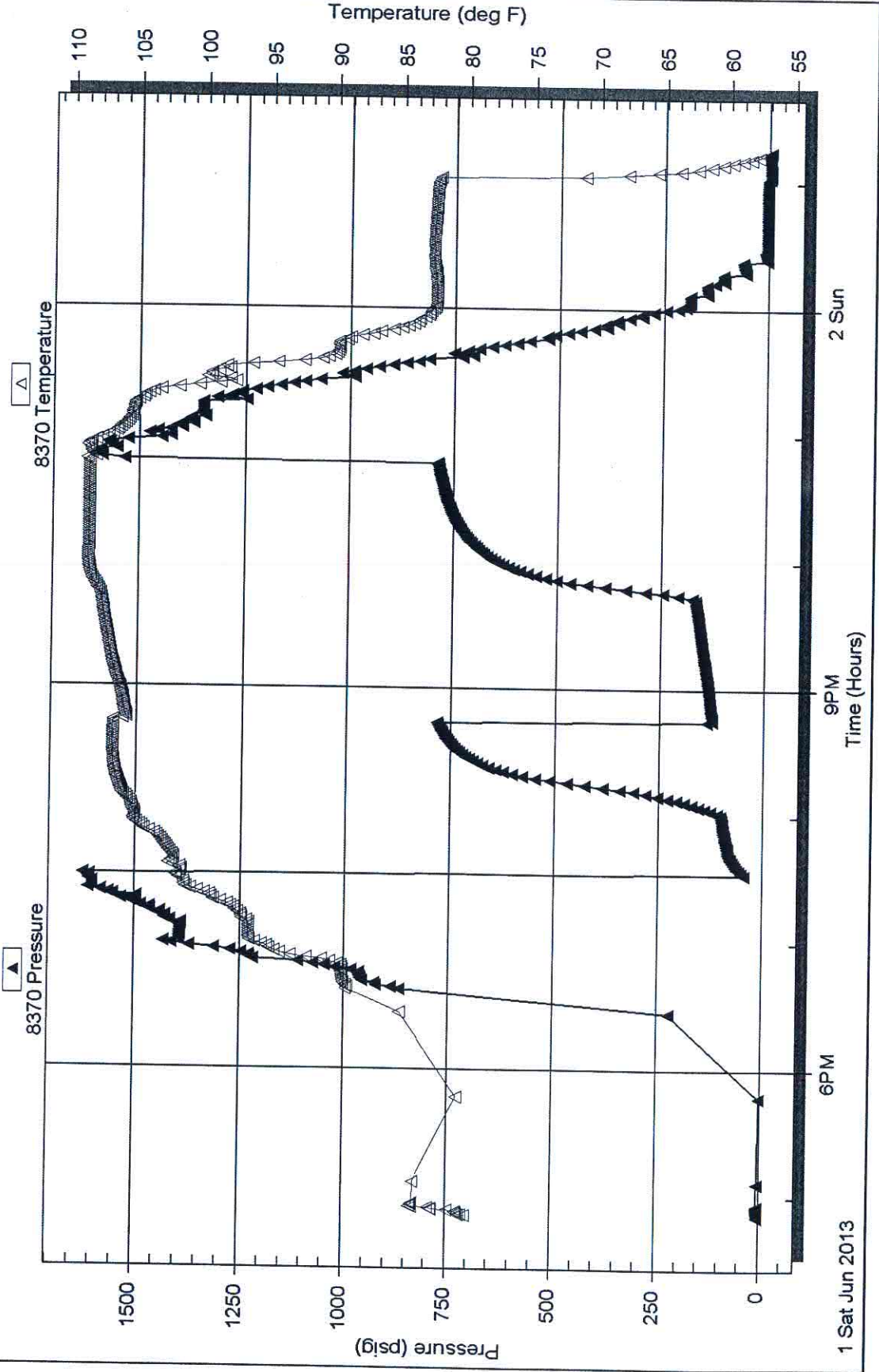
Outside

Charles N. Griffin

Orr #B1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 52282

Printed: 2013.06.05 @ 14:50:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52282

Well Name & No. ORR B-1 Test No. 1 Date 6-1-17
 Company CHARLES N. GRIFFIN Elevation 1505 KB 1497
 Address P.O. Box 347, PRATT KS. 67124
 Co. Rep / Geo. BRUCE REED Rig FOSSIL DRUG #2
 Location: Sec. 9 Twp. 32 S Rge. 12 W Co. BARBER State KS.

Interval Tested 3388 - 3424' Zone Tested ELGIN
 Anchor Length 36' Drill Pipe Run 3231' Mud Wt. 8.9
 Top Packer Depth 3383' Drill Collars Run 150' Vis 48
 Bottom Packer Depth 3388' Wt. Pipe Run 0 WL 10.0 cc
 Total Depth 3424' Chlorides 4,800 ppm System LCM 0
 Blow Description IF: Strong blow. B.O.B. in 4 mins. ISI: Weak blow. 1/2 - 1".

FF: Strong blow. B.O.B. in 35 secs. GTS in 45 mins. TSTM.
FSI: Weak blow. 1/2 - 3 1/2".

Rec	Feet of	%gas	%oil	%water	%m
<u>80</u>	<u>GOCUM</u>	<u>20</u>	<u>6</u>	<u>11</u>	<u>63</u>
<u>185</u>	<u>GM&WCO</u>	<u>26</u>	<u>32</u>	<u>20</u>	<u>22</u>
<u>120</u>	<u>GMCO</u>	<u>20</u>	<u>64</u>		<u>16</u>
Rec	Feet of	%gas	%oil	%water	%m
Rec	Feet of	%gas	%oil	%water	%m

Rec Total ~~385~~ 415 BHT 109° Gravity N/A API RW 2 @ 55° F Chlorides 47,000 pp

(A) Initial Hydrostatic 1609 Test 1150 T-On Location 1535
 (B) First Initial Flow 32 Jars 250 T-Started 1654
 (C) First Final Flow 99 Safety Joint 75 T-Open 1932
 (D) Initial Shut-In 780 Circ Sub _____ T-Pulled 2247
 (E) Second Initial Flow 122 Hourly Standby _____ T-Out 0135
 (F) Second Final Flow 165 Mileage 74 114.70 Comments _____
 (G) Final Shut-In 285 Sampler _____
 (H) Final Hydrostatic 1590 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1839.70
 Sub Total 1839.70 MP/DST Disc't _____

Approved By Bruce A. Reed Our Representative Greg Watson

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