



DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Dave Barker

Lichlyter #2

4-33s-10w Barber,KS

Start Date: 2012.08.29 @ 00:17:34

End Date: 2012.08.29 @ 09:38:49

Job Ticket #: 49567 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.07 @ 13:19:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil Co

4-33s-10w Barber,KS

PO Box 124
Kiowa, KS 67070

Lichlyter #2

Job Ticket: 49567

DST#: 1

ATTN: Dave Barker

Test Start: 2012.08.29 @ 00:17:34

GENERAL INFORMATION:

Formation: **Misner**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:28:19

Time Test Ended: 09:38:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 63

Interval: 4753.00 ft (KB) To 4773.00 ft (KB) (TVD)

Reference Elevations: 1468.00 ft (KB)

Total Depth: 4773.00 ft (KB) (TVD)

1456.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 104.67 psig @ 4754.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.29

End Date: 2012.08.29

Last Calib.: 2012.08.29

Start Time: 00:17:35

End Time: 09:38:49

Time On Btm: 2012.08.29 @ 04:27:04

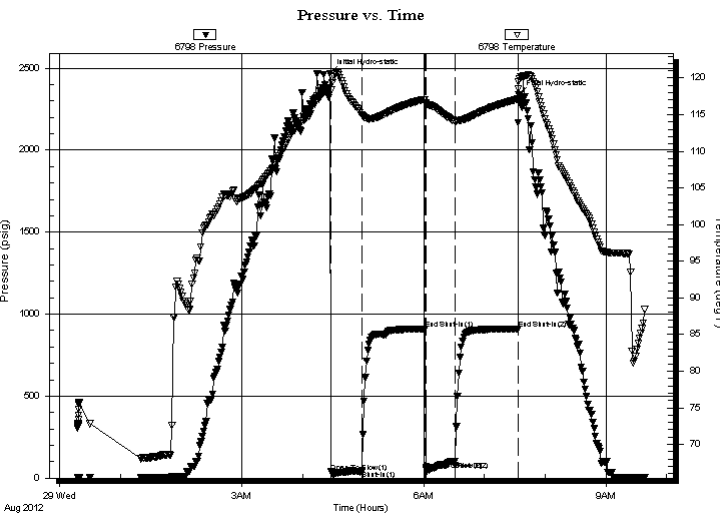
Time Off Btm: 2012.08.29 @ 07:33:49

TEST COMMENT: IF: Strong Blow, BOB in 2 minutes, GTS in 27 minutes, TSTM

IS: Surface Blow Back

FF: Strong Blow, BOB & GTS Immediate, TSTM

FS: No Blow Back



PRESSURE SUMMARY

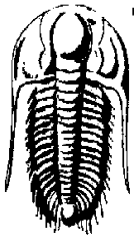
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2468.66	118.73	Initial Hydro-static
2	37.42	118.37	Open To Flow (1)
32	47.12	114.96	Shut-In(1)
95	909.45	117.11	End Shut-In(1)
96	50.94	116.48	Open To Flow (2)
124	104.67	114.12	Shut-In(2)
186	910.11	117.11	End Shut-In(2)
187	2337.61	119.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4565 GIP	0.00
120.00	GOCM 20%G 25%O 55%M	0.59
62.00	GOCM 10%G 35%O 55%M	0.58

Gas Rates

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



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Job Ticket: 49567

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KB to GR/CF: 12.00 ft

Serial #: 8367 Outside

Press @ RunDepth: psig @ 4754.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.29

End Date: 2012.08.29

Last Calib.: 2012.08.29

Start Time: 00:17:35

End Time: 09:38:49

Time On Btm:

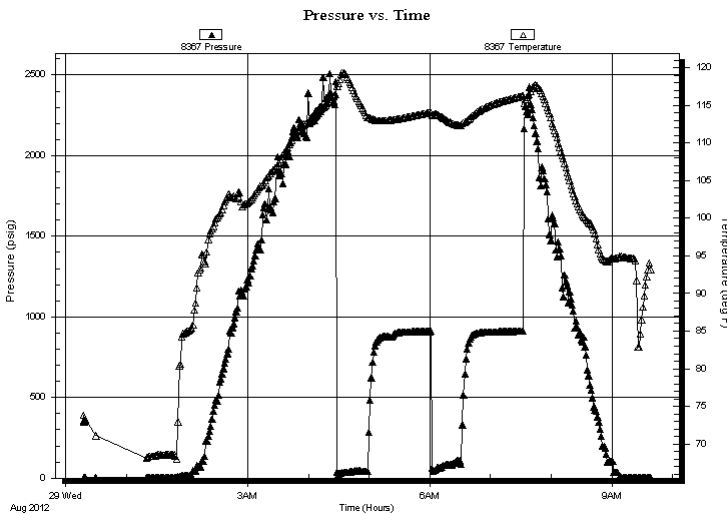
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PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	4565 GIP	0.00
120.00	GOCM 20%G 25%O 55%M	0.59
62.00	GOCM 10%G 35%O 55%M	0.58

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co

4-33s-10w Barber, KS

PO Box 124
Kiowa, KS 67070

Lichlyter #2

Job Ticket: 49567

DST#: 1

ATTN: Dave Barker

Test Start: 2012.08.29 @ 00:17:34

Tool Information

Drill Pipe:	Length: 4595.00 ft	Diameter: 3.80 inches	Volume: 64.46 bbl	Tool Weight: 2100.00 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: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.21 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4753.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 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			4731.00	
Hydraulic tool	5.00			4736.00	
Jars	5.00			4741.00	
Safety Joint	2.00			4743.00	
Packer	5.00			4748.00	27.00 Bottom Of Top Packer
Packer	5.00			4753.00	
Stubb	1.00			4754.00	
Recorder	0.00	6798	Inside	4754.00	
Recorder	0.00	8367	Outside	4754.00	
Perforations	16.00			4770.00	
Bullnose	3.00			4773.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

4-33s-10w Barber,KS

PO Box 124
Kiowa, KS 67070

Lichlyter #2

Job Ticket: 49567

DST#: 1

ATTN: Dave Barker

Test Start: 2012.08.29 @ 00:17:34

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:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	4565 GIP	0.000
120.00	GOCM 20%G 25%O 55%M	0.590
62.00	GOCM 10%G 35%O 55%M	0.578

Total Length: 182.00 ft

Total Volume: 1.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

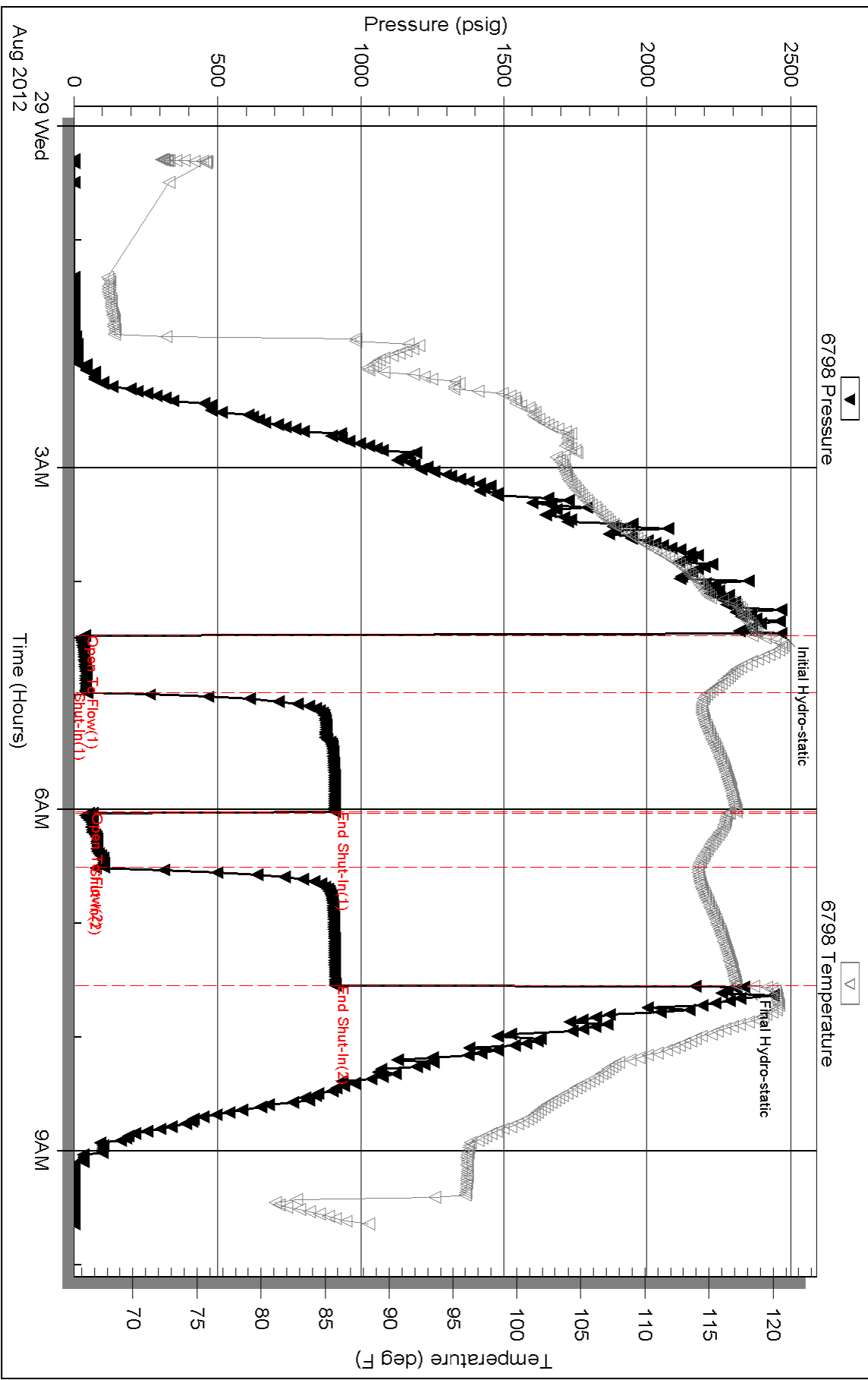
Inside

Chieftain Oil Co

Lichlyer #2

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49567

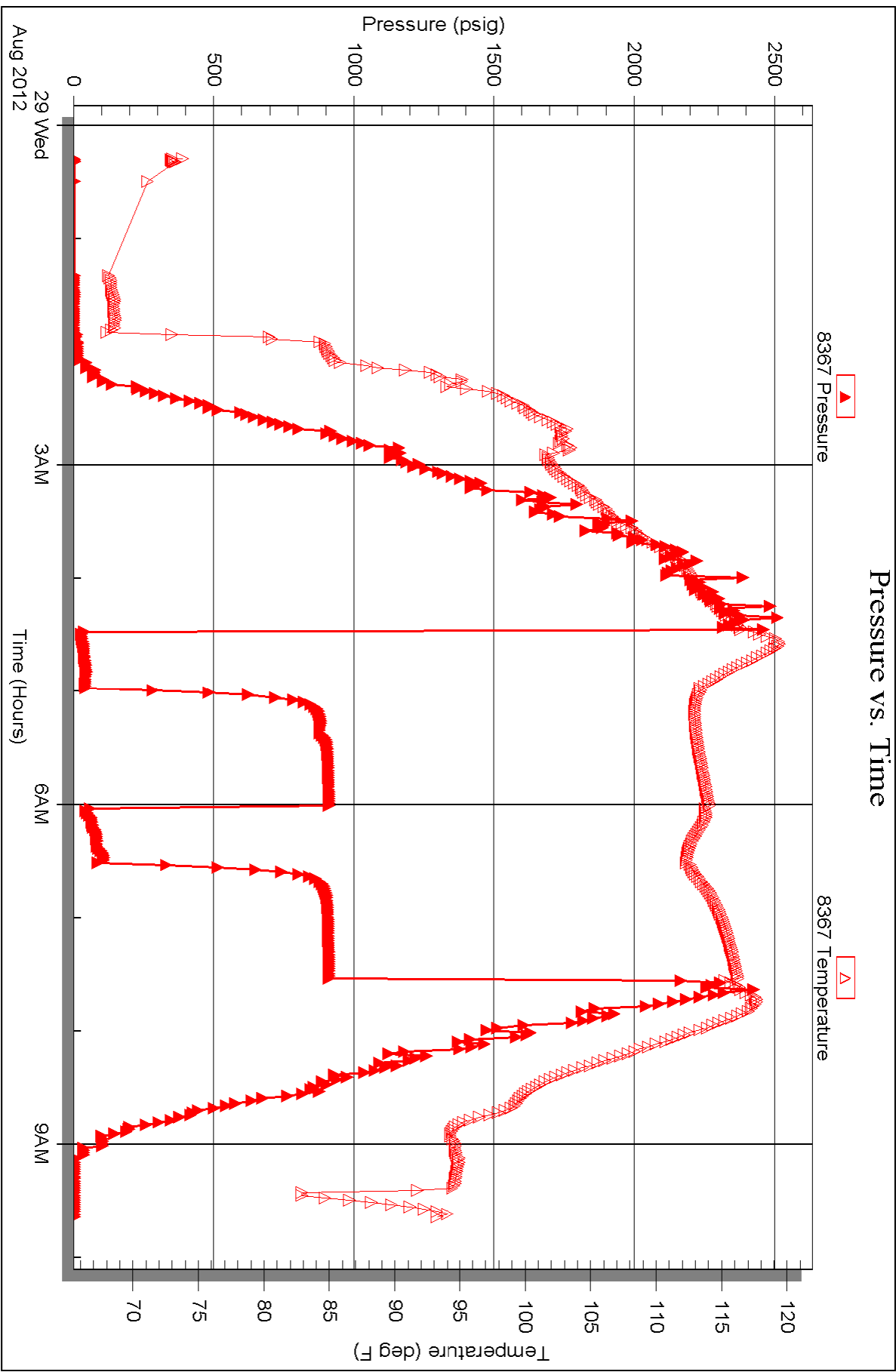
Printed: 2012.09.07 @ 13:19:30

Serial #: 8367

Outside Chieftain Oil Co

Lichtlyer #2

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49567

4/10

Well Name & No. Lichlyter 2 Test No. 1 Date 08/28/12
 Company Chittain Oil Co Elevation 1468 KB 1456 GL
 Address PO Box 124 Kiowa, KS 67070
 Co. Rep / Geo. Dave Barker Rig Fossil 3
 Location: Sec. 4 Twp. 33S Rge. 10W Co. Barber State KS

Interval Tested 4753 - 4773 Zone Tested Misner
 Anchor Length 20 Drill Pipe Run 4753 Mud Wt. 9.2
 Top Packer Depth 4748 Drill Collars Run 152 Vis 60
 Bottom Packer Depth 4753 Wt. Pipe Run 0 WL 6.0
 Total Depth 4773 Chlorides 5600 ppm System LCM 3

Blow Description IF: Strong Blow, BOB in 2 minutes, GTS in 27 minutes, TSTM
ISI: surface Blow Back
FF: Strong Blow, BOB+GTS immediate, TSTM
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4565</u>	<u>GIP</u>				
<u>62</u>	<u>GOCM</u>	<u>10</u>	<u>35</u>	<u>55</u>	<u>55</u>
<u>120</u>	<u>GOCM</u>	<u>20</u>	<u>25</u>	<u>55</u>	<u>55</u>

Rec Total 182 BHT 119 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic 2468 Test 1250 T-On Location 23:00
 (B) First Initial Flow 37 Jars 250 T-Started 06:17
 (C) First Final Flow 47 Safety Joint 75 T-Open 04:28
 (D) Initial Shut-In 909 Circ Sub T-Pulled 07:32
 (E) Second Initial Flow 51 Hourly Standby T-Out 09:38
 (F) Second Final Flow 105 Mileage 100 155 Comments _____
 (G) Final Shut-In 910 Sampler _____
 (H) Final Hydrostatic 2338 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1730
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1730

Approved By Q B Our Representative [Signature]

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