



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City KS, 67846

ATTN: Luke Thompson

Six M #1-23

23-22s-34w Finney,KS

Start Date: 2014.12.20 @ 22:50:00

End Date: 2014.12.21 @ 07:15:30

Job Ticket #: 58515 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.23 @ 14:31:46



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.

23-22s-34w Finney, KS

PO Box 399
Garden City KS, 67846

Six M #1-23

Job Ticket: 58515

DST#: 1

ATTN: Luke Thompson

Test Start: 2014.12.20 @ 22:50:00

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:26:15

Time Test Ended: 07:15:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: 4688.00 ft (KB) To 4808.00 ft (KB) (TVD)

Total Depth: 4808.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2942.00 ft (KB)

2929.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8675 Inside

Press@RunDepth: 165.30 psig @ 4701.00 ft (KB)

Start Date: 2014.12.20

End Date:

2014.12.21

Start Time: 22:50:15

End Time:

07:15:30

Capacity: 8000.00 psig

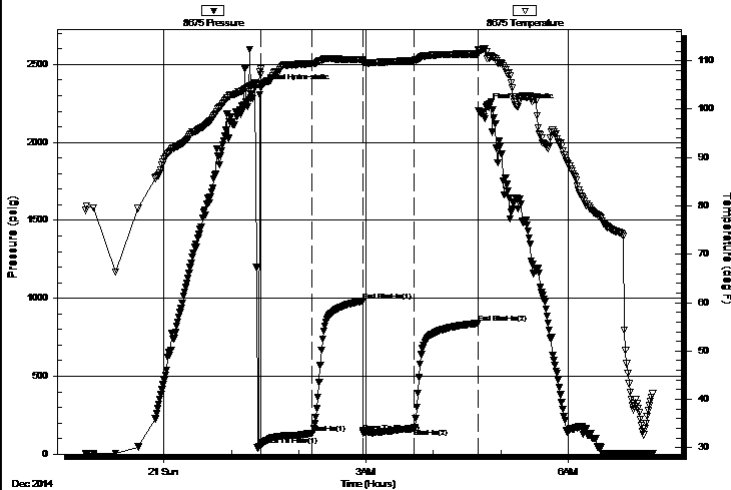
Last Calib.: 2014.12.21

Time On Btm: 2014.12.21 @ 01:26:00

Time Off Btm: 2014.12.21 @ 04:47:15

TEST COMMENT: B.O.B. in 21 1/2 min.
Bled off for 5 min, Built to 1" return blow
B.O.B. in 8 1/2 min.
Bled off for 5 min, Built to 6" return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.82	108.31	Initial Hydro-static
1	57.43	107.16	Open To Flow (1)
46	132.45	109.44	Shut-In(1)
91	982.10	110.30	End Shut-In(1)
92	137.37	109.94	Open To Flow (2)
137	165.30	110.09	Shut-In(2)
194	840.43	111.40	End Shut-In(2)
202	2225.71	111.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
116.00	mcgo 10%M 40%G 50%O	0.57
121.00	mcgo 10%m 30%G 60%O	1.18
141.00	mcgo 20%M 20%G 60%O	1.98
0.00	738 Feet Gas In Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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23-22s-34w Finney, KS

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Total Depth: 4808.00 ft (KB) (TVD)

2929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4701.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.20

End Date:

2014.12.21

Last Calib.:

2014.12.21

Start Time: 22:50:15

End Time:

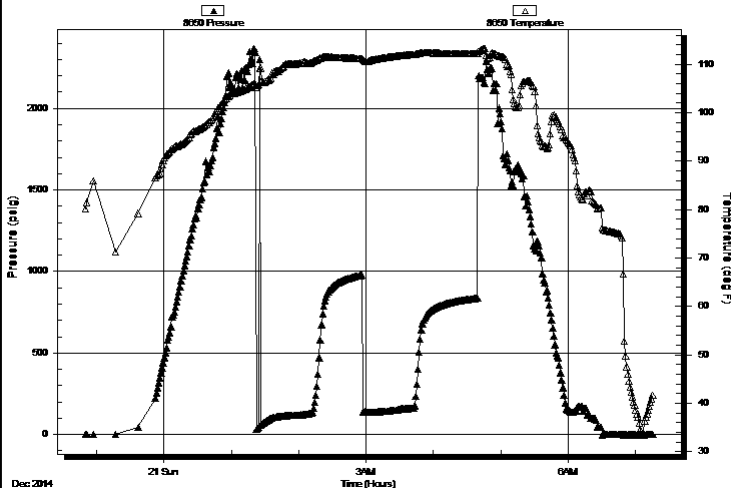
07:15:15

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 21 1/2 min.
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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

23-22s-34w Finney, KS

PO Box 399
Garden City KS, 67846

Six M #1-23

Job Ticket: 58515

DST#: 1

ATTN: Luke Thompson

Test Start: 2014.12.20 @ 22:50:00

Tool Information

Drill Pipe:	Length:	4518.93 ft	Diameter:	3.80 inches	Volume:	63.39 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:	173.29 ft	Diameter:	2.25 inches	Volume:	0.85 bbl	Weight to Pull Loose:	92000.00 lb
					Total Volume:	64.24 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		31.72 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		4688.00 ft					Final	72000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		120.00 ft						
Tool Length:		147.50 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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Change Over Sub	1.00		4661.50	
Shut In Tool	5.00		4666.50	
Hydraulic tool	5.00		4671.50	
Jars	5.00		4676.50	
Safety Joint	2.50		4679.00	
Packer	5.00		4684.00	27.50 Bottom Of Top Packer
Packer	4.00		4688.00	
Stubb	1.00		4689.00	
Perforations	11.00		4700.00	
Change Over Sub	1.00		4701.00	
Recorder	0.00	8675 Inside	4701.00	
Recorder	0.00	8650 Outside	4701.00	
Drill Pipe	93.00		4794.00	
Change Over Sub	1.00		4795.00	
Perforations	10.00		4805.00	
Bullnose	3.00		4808.00	120.00 Bottom Packers & Anchor
Total Tool Length:	147.50			



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

23-22s-34w Finney, KS

PO Box 399
Garden City KS, 67846

Six M #1-23

Job Ticket: 58515

DST#: 1

ATTN: Luke Thompson

Test Start: 2014.12.20 @ 22:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

30 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
116.00	mcgo 10%M 40%G 50%O	0.570
121.00	mcgo 10%m 30%G 60%O	1.175
141.00	mcgo 20%M 20%G 60%O	1.978
0.00	738 Feet Gas In Pipe	0.000

Total Length: 378.00 ft Total Volume: 3.723 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 27 @ 30 F = 30

Serial #: 8675

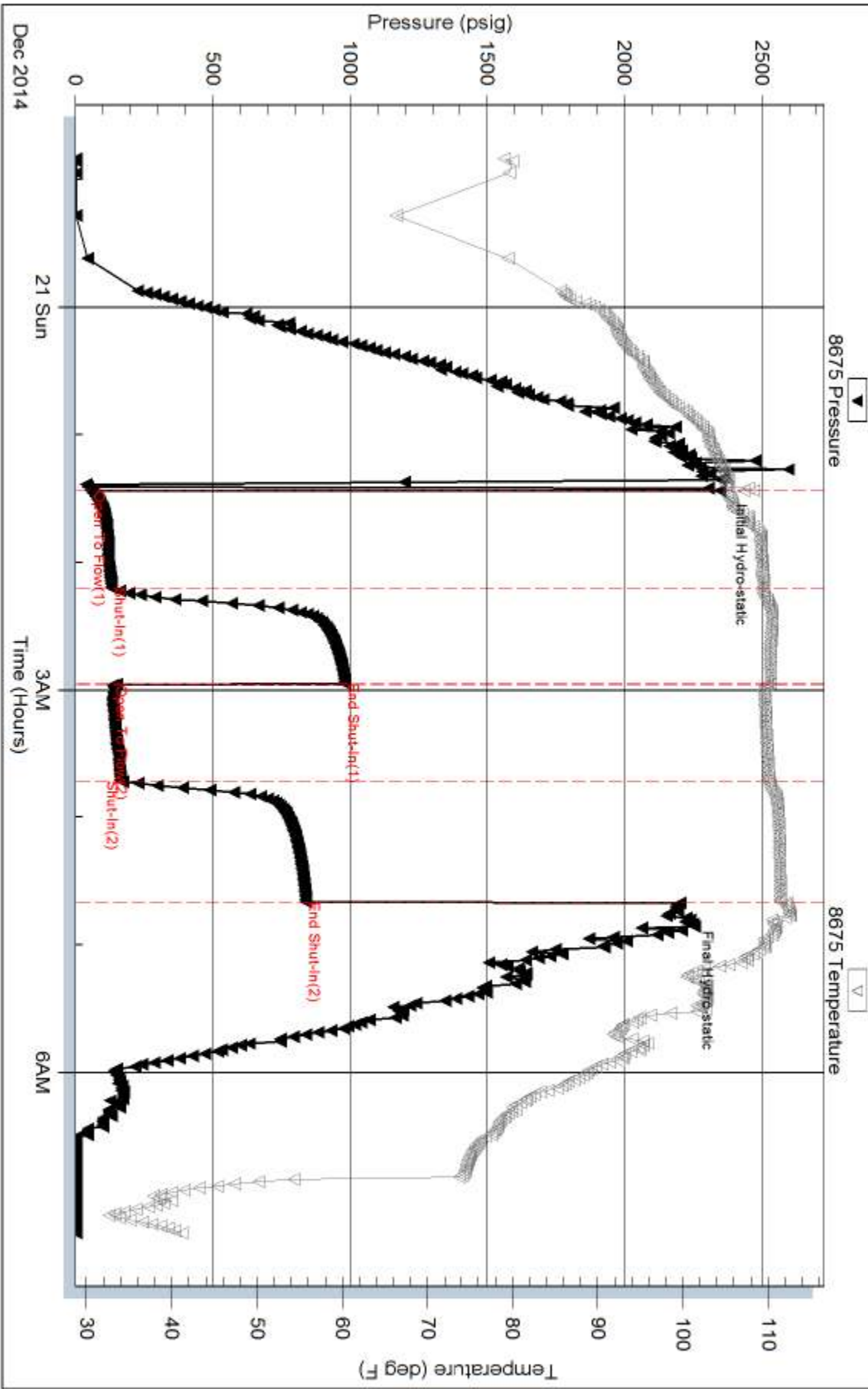
Inside

American Warrior, Inc.

Six M#1-23

DST Test Number: 1

Pressure vs. Time

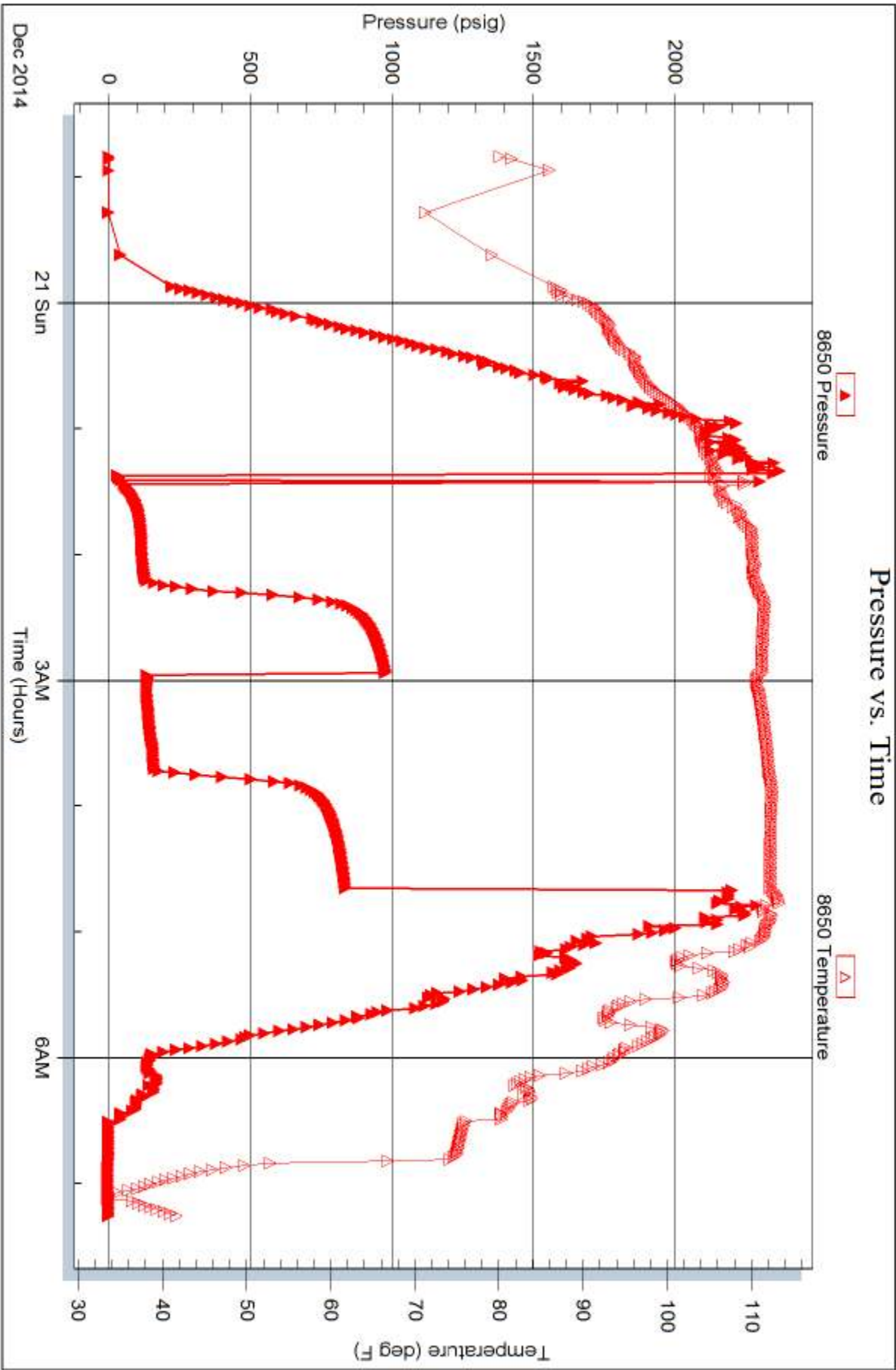


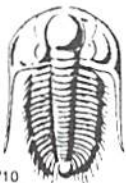
Serial #: 8650

Outside American Warrior, Inc.

Six M#1-23

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58515

Well Name & No. Six M #1-23 Test No. 1 Date 12/20/14 12/21/14
 Company American Warrior, Inc. Elevation 2942 KB 2929 GL
 Address 3118 Cummings Rd, PO Box 399, Garden City, KS, 67846
 Co. Rep / Geo. Luke Thompson Rig Duke Rig 9
 Location: Sec. 23 Twp. 22S Rge. 34W Co. Finney County State KS

Interval Tested 4688-4808 Zone Tested Morrow Sand
 Anchor Length 120 Drill Pipe Run 4518.93 Mud Wt. 9.25
 Top Packer Depth 4684 Drill Collars Run 173.29 Vis 50
 Bottom Packer Depth 4688 Wt. Pipe Run WL 8.8
 Total Depth 4808 Chlorides 1800 ppm System LCM 3#

Blow Description B.O.B. in 2 1/2 min.
Bled off for 5 min. Built to 1" return below
B.O.B. in 8 1/2 min.

Bled off for 5 min. Built to 6" return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>738 Feet Gas In Pipe</u>				
<u>141</u>	<u>gc m o</u>	<u>20 %gas</u>	<u>60 %oil</u>	<u>%water</u>	<u>20 %mud</u>
<u>121</u>	<u>mcgo</u>	<u>30 %gas</u>	<u>60 %oil</u>	<u>%water</u>	<u>10 %mud</u>
<u>116</u>	<u>mcgo</u>	<u>40 %gas</u>	<u>50 %oil</u>	<u>%water</u>	<u>10 %mud</u>
<u> </u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 378 BHT 111 Gravity 30 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2,348 ☒ Test 1250 T-On Location 21:40
 (B) First Initial Flow 57 ☒ Jars 250 T-Started 22:30
 (C) First Final Flow 132 ☒ Safety Joint 75 T-Open 01:21
 (D) Initial Shut-In 982 ☒ Circ Sub N/C T-Pulled 04:42
 (E) Second Initial Flow 137 ☐ Hourly Standby T-Out 07:15
 (F) Second Final Flow 165 ☒ Mileage 64 BT X 2 99.20 Comments ended tool 15:00
 (G) Final Shut-In 840 99.20 12/21/14
 (H) Final Hydrostatic 2,226 ☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 660
 Sub Total 1773.40
 Total 1773.40
 MP/DST Disc't ☒

Approved By Our Representative
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