



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

City of Ingalls #1-5

5-25s-29w Gray,KS

Start Date: 2013.09.26 @ 18:30:43

End Date: 2013.09.27 @ 01:56:43

Job Ticket #: 041771 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

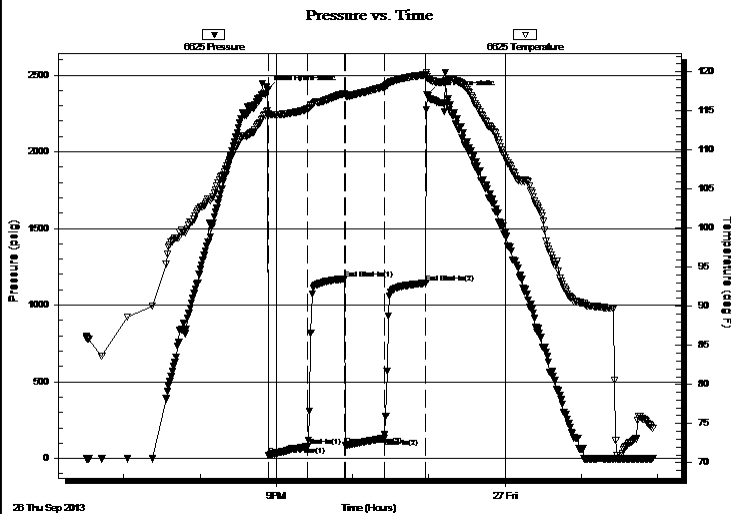
5-25s-29w Gray,KS
City of Ingalls #1-5
Job Ticket: 041771 **DST#: 1**
Test Start: 2013.09.26 @ 18:30:43

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:53:43
Time Test Ended: 01:56:43
Interval: **4850.00 ft (KB) To 4896.00 ft (KB) (TVD)**
Total Depth: 4896.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 67
Reference Elevations: 2824.00 ft (KB)
2812.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6625 Outside
Press @ Run Depth: 131.53 psig @ 4887.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.26 End Date: 2013.09.27 Last Calib.: 2013.09.27
Start Time: 18:30:44 End Time: 01:56:43 Time On Btm: 2013.09.26 @ 20:53:13
Time Off Btm: 2013.09.26 @ 22:58:43

TEST COMMENT: IFP=Weak blow built to 3-1/2"
ISI=Dead no blow back
FFP=Weak blow built to 1-1/2"
FSI=Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2404.80	115.03	Initial Hydro-static
1	20.34	114.60	Open To Flow (1)
32	78.74	115.27	Shut-In(1)
61	1170.72	117.22	End Shut-In(1)
61	83.46	117.00	Open To Flow (2)
92	131.53	118.07	Shut-In(2)
125	1143.18	119.61	End Shut-In(2)
126	2371.09	119.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
188.00	MW 25%M 75%W	0.92
30.00	Mud with oil spots	0.15

Gas Rates

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



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PO Box 399
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5-25s-29w Gray,KS

City of Ingalls #1-5

Job Ticket: 041771

DST#: 1

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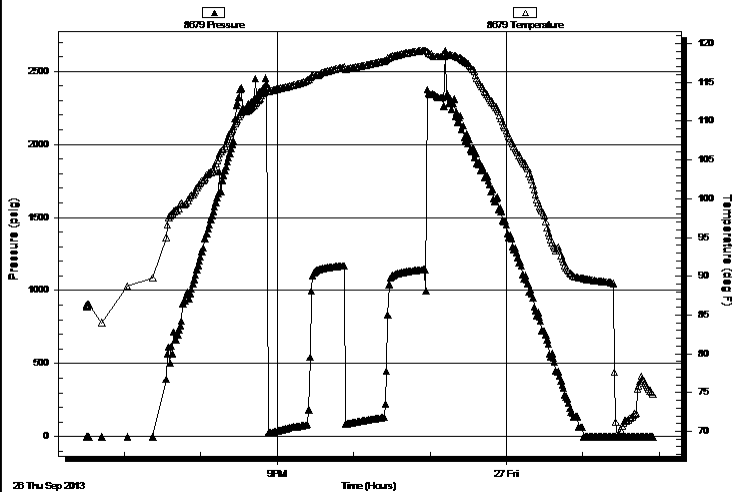
Serial #: 8679

Inside

Press @ Run Depth: psig @ 4887.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.26 End Date: 2013.09.27 Last Calib.: 2013.09.27
 Start Time: 18:30:21 End Time: 01:54:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP=Weak blow built to 3-1/2"
 ISI=Dead no blow back
 FFP=Weak blow built to 1-1/2"
 FSI=Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
188.00	MW 25%M 75%W	0.92
30.00	Mud with oil spots	0.15

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc
 PO Box 399
 Garden City, KS 67846
 ATTN: Kevin Timson

5-25s-29w Gray,KS
City of Ingalls #1-5
 Job Ticket: 041771 **DST#: 1**
 Test Start: 2013.09.26 @ 18:30:43

Tool Information

Drill Pipe:	Length: 4555.00 ft	Diameter: 3.80 inches	Volume: 63.89 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume: 65.25 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4850.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	74.00 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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Change Over Sub	1.00			4823.00	
Shut In Tool	5.00			4828.00	
Hydraulic tool	5.00			4833.00	
Jars	5.00			4838.00	
Safety Joint	3.00			4841.00	
Packer	4.00			4845.00	28.00 Bottom Of Top Packer
Packer	5.00			4850.00	
Stubb	1.00			4851.00	
Perforations	3.00			4854.00	
Change Over Sub	1.00			4855.00	
Drill Pipe	31.00			4886.00	
Change Over Sub	1.00			4887.00	
Recorder	0.00	6625	Outside	4887.00	
Recorder	0.00	8679	Inside	4887.00	
Perforations	6.00			4893.00	
Bullnose	3.00			4896.00	46.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



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FLUID SUMMARY

American Warrior Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

5-25s-29w Gray,KS
City of Ingalls #1-5
Job Ticket: 041771 **DST#: 1**
Test Start: 2013.09.26 @ 18:30:43

Mud and Cushion Information

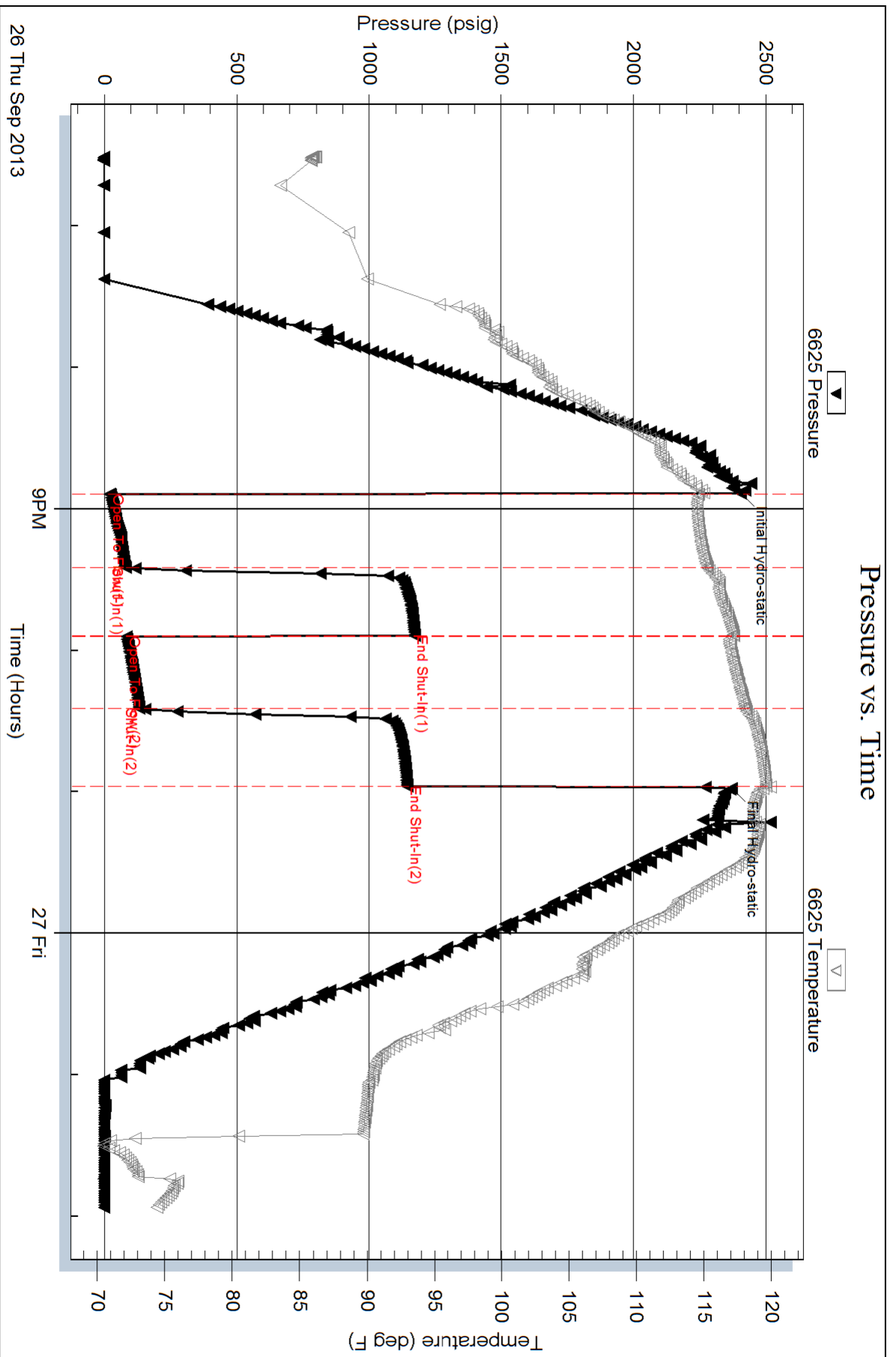
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
188.00	MW 25%M 75%W	0.925
30.00	Mud with oil spots	0.148

Total Length: 218.00 ft Total Volume: 1.073 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



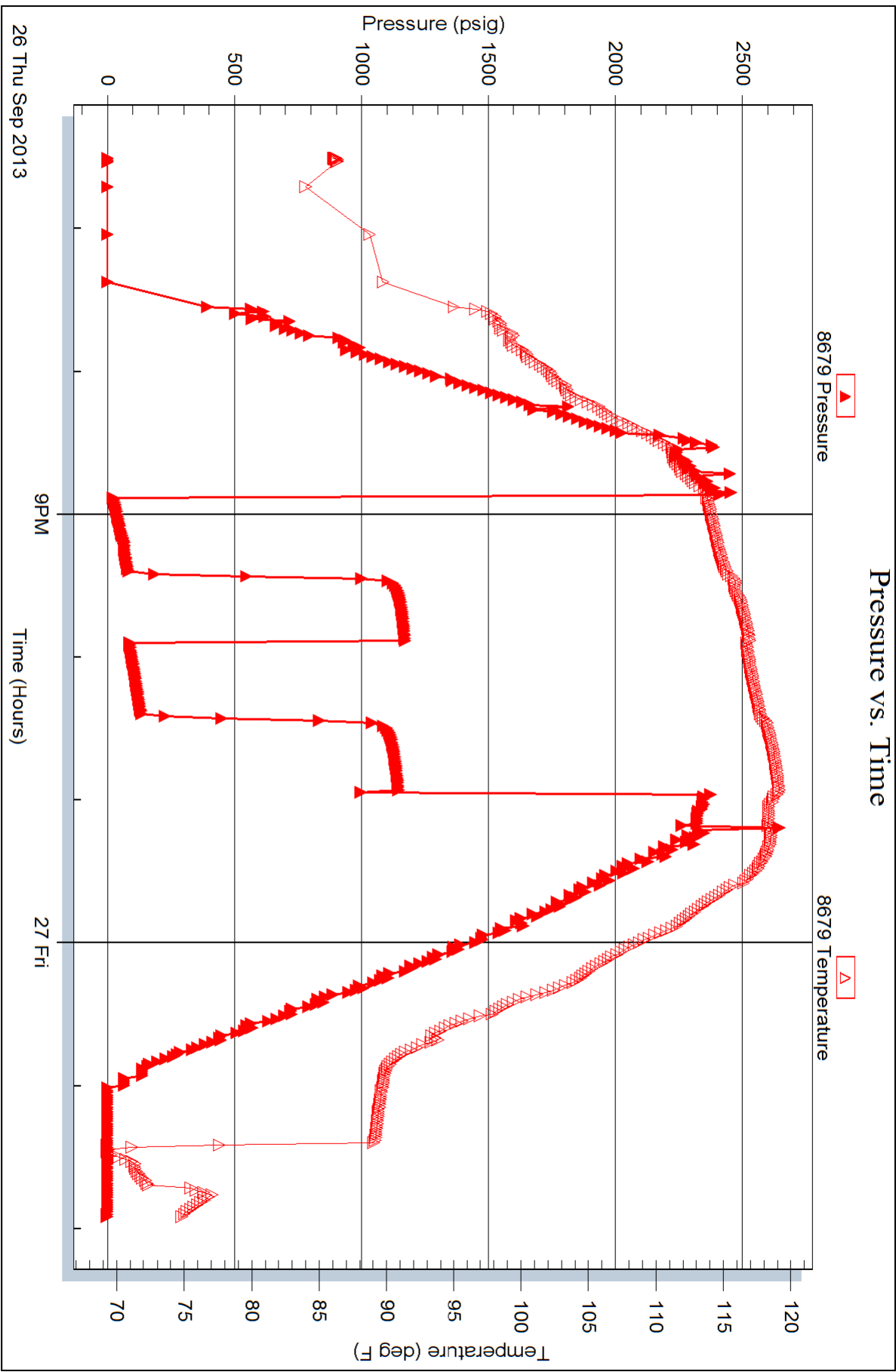
Serial #: 8679

Inside

American Warrior Inc

City of Ingalls #1-5

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041771

Well Name & No. City of Ingalls 1-5 Test No. 1 Date 9-26-13
 Company American Warrior Inc Elevation 2824 KB 2812 GL
 Address PO Box 399 Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #5
 Location: Sec. 5 Twp. 25 S Rge. 29 W Co. Gray State KS

Interval Tested 4850 - 4896 Zone Tested Monlow
 Anchor Length 46 Drill Pipe Run 4555 Mud Wt. 9.3
 Top Packer Depth 4845 Drill Collars Run 277 Vis 47
 Bottom Packer Depth 4850 Wt. Pipe Run 0 WL 9.2
 Total Depth 4896 Chlorides 3000 ppm System LCM 1

Blow Description 1st-Weak Blow Built To 3 1/2 IN
1st-Dead No Blow Back
2nd-Weak Blow Built To 1 1/2 IN
2nd-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>188</u>	<u>MW</u>			<u>75%</u>	<u>25%</u>
<u>30</u>	<u>Mud with A bit spots</u>				<u>100%</u>

Rec Total 218 BHT 120 Gravity _____ API RW. 205 @ 71.2°F Chlorides 35,000 ppm

(A) Initial Hydrostatic <u>2405</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>17:50</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>18:30</u>
(C) First Final Flow <u>79</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>20:54</u>
(D) Initial Shut-In <u>1171</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:54</u>
(E) Second Initial Flow <u>83</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:56</u>
(F) Second Final Flow <u>132</u>	<input checked="" type="checkbox"/> Mileage <u>300 RT</u> <small>126rt 195.30</small>	Comments <u>Loaded Tools @ 13:30</u>
(G) Final Shut-In <u>1143</u>	<input type="checkbox"/> Sampler	<u>on 9-27-13</u>
(H) Final Hydrostatic <u>2371</u>	<input type="checkbox"/> Straddle	

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

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1856.60
 MP/DST Disc't _____

Sub Total 1856.60

Approved By _____ Our Representative Jeff Brown

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