



DRILL STEM TEST REPORT

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

PO Box 399
Garden City, KS 67846

ATTN: Jim Musgrove

White #5-8

8-16s-10w Ellsworth,KS

Start Date: 2013.11.21 @ 18:08:47

End Date: 2013.11.22 @ 03:30:16

Job Ticket #: 55775 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: Jim Musgrove

8-16s-10w Ellsworth, KS

White #5-8

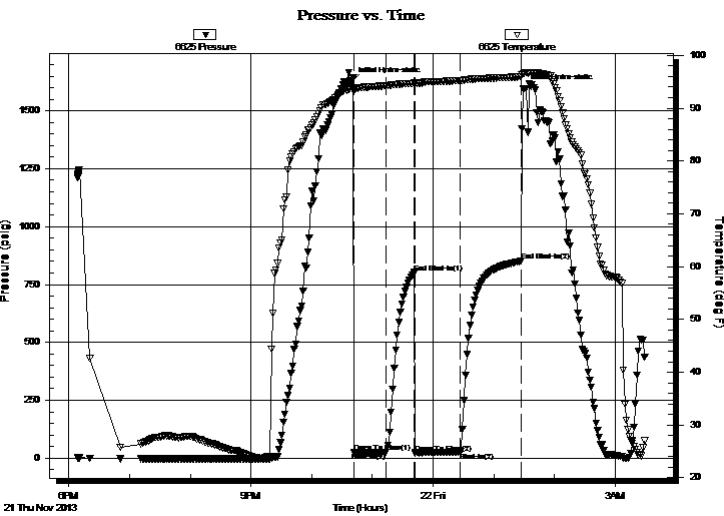
Job Ticket: 55775 **DST#: 1**
 Test Start: 2013.11.21 @ 18:08:47

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:41:46
 Time Test Ended: 03:30:16
 Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**
 Total Depth: 3326.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan L
 Unit No: 68
 Reference Elevations: 1856.00 ft (KB)
 1848.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Outside
 Press@RunDepth: 27.23 psig @ 3322.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.21 End Date: 2013.11.22 Last Calib.: 2013.11.21
 Start Time: 18:08:47 End Time: 03:30:16 Time On Btm: 2013.11.21 @ 22:40:16
 Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 2 1/2"
 30- IS- No blow
 45- FF- Built very slow ly to 1"
 60- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.05	93.78	Initial Hydro-static
2	24.08	93.62	Open To Flow (1)
34	24.23	94.28	Shut-In(1)
62	801.83	94.73	End Shut-In(1)
62	21.68	94.64	Open To Flow (2)
107	27.23	95.25	Shut-In(2)
167	851.19	95.96	End Shut-In(2)
170	1595.36	96.66	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO, 10%G 30%M 60%O	0.20

Gas Rates

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



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8-16s-10w Ellsworth, KS

PO Box 399
Garden City, KS 67846

White #5-8

Job Ticket: 55775

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.11.21 @ 18:08:47

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:41:46

Time Test Ended: 03:30:16

Interval: 3286.00 ft (KB) To 3326.00 ft (KB) (TVD)

Total Depth: 3326.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 68

Reference Elevations: 1856.00 ft (KB)

1848.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8679

Inside

Press@RunDepth: psig @ 3322.00 ft (KB)

Start Date: 2013.11.21

End Date:

2013.11.22

Start Time: 18:08:34

End Time:

03:28:03

Capacity: 8000.00 psig

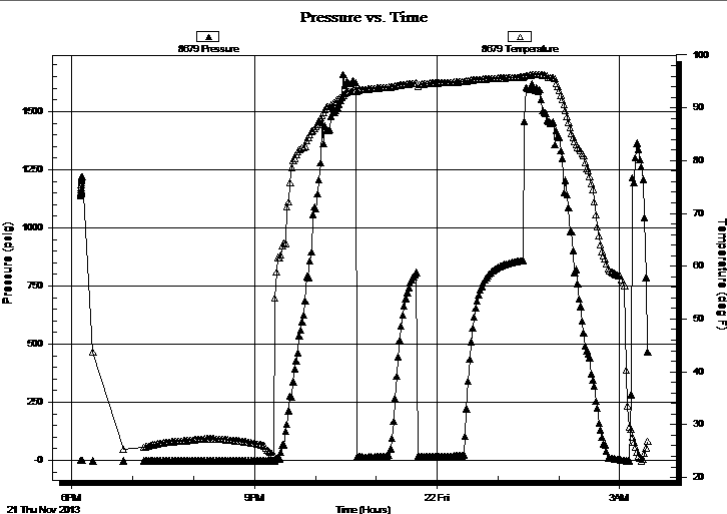
Last Calib.:

2013.11.21

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Slow ly built to 2 1/2"
30- IS- No blow
45- FF- Built very slow ly to 1"
60- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO, 10%G 30%M 60%O	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

8-16s-10w Ellsworth,KS

PO Box 399
Garden City, KS 67846

White #5-8

Job Ticket: 55775

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.11.21 @ 18:08:47

Tool Information

Drill Pipe:	Length: 3282.00 ft	Diameter: 3.75 inches	Volume: 44.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	38000.00 lb
Drill Pipe Above KB:	16.00 ft			Final	38000.00 lb
Depth to Top Packer:	3286.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3267.00	
Shut In Tool	5.00			3272.00	
Hydraulic tool	5.00			3277.00	
Packer	4.00			3281.00	20.00 Bottom Of Top Packer
Packer	5.00			3286.00	
Stubb	1.00			3287.00	
Perforations	1.00			3288.00	
Change Over Sub	1.00			3289.00	
Drill Pipe	32.00			3321.00	
Change Over Sub	1.00			3322.00	
Recorder	0.00	6625	Outside	3322.00	
Recorder	0.00	8679	Inside	3322.00	
Bullnose	4.00			3326.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



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FLUID SUMMARY

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8-16s-10w Ellsworth,KS

PO Box 399
Garden City, KS 67846

White #5-8

Job Ticket: 55775

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.11.21 @ 18:08:47

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GMCO, 10%G 30%M 60%O	0.205

Total Length: 15.00 ft Total Volume: 0.205 bbl

Num Fluid Samples: 0

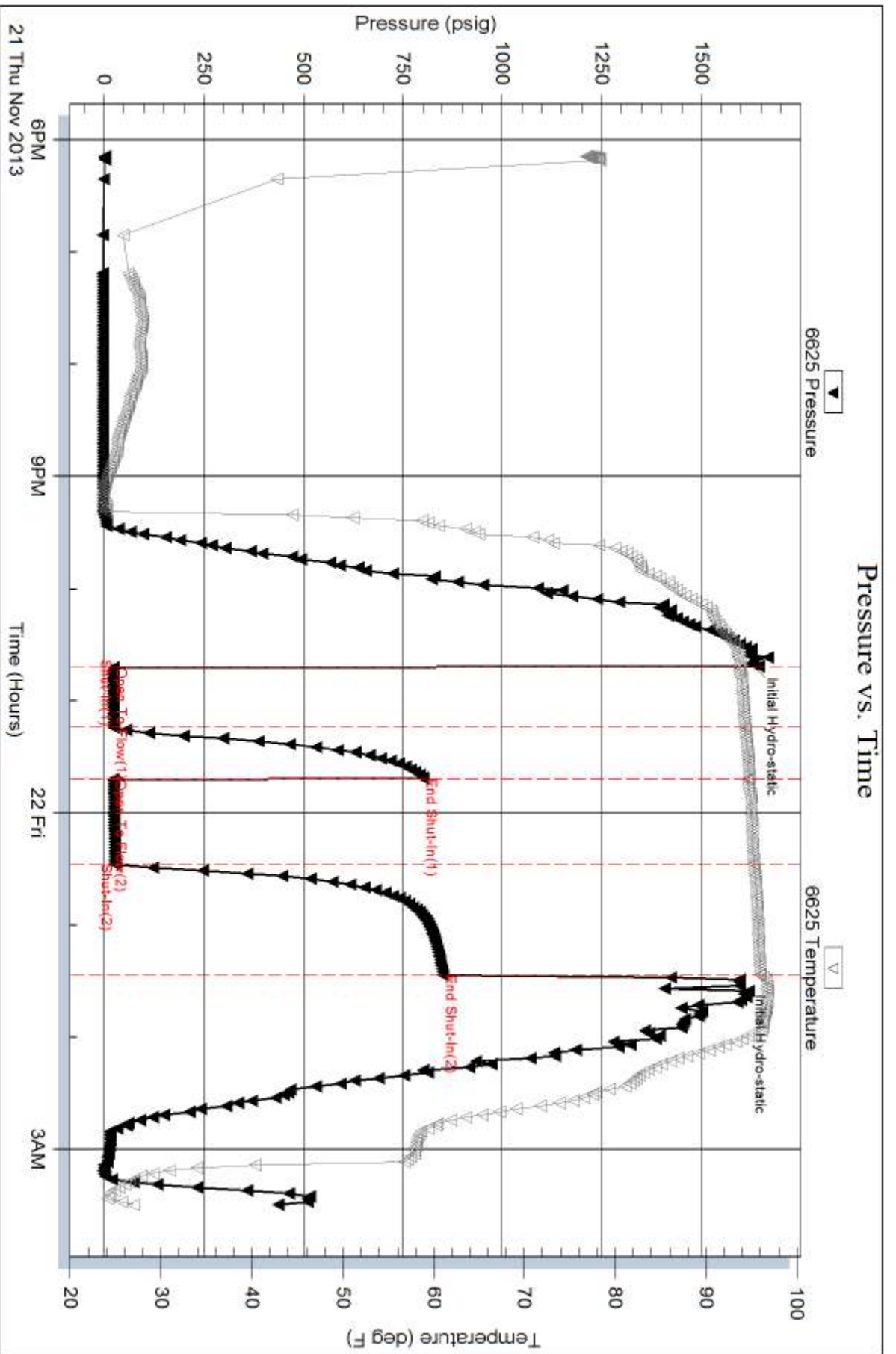
Num Gas Bombs: 0

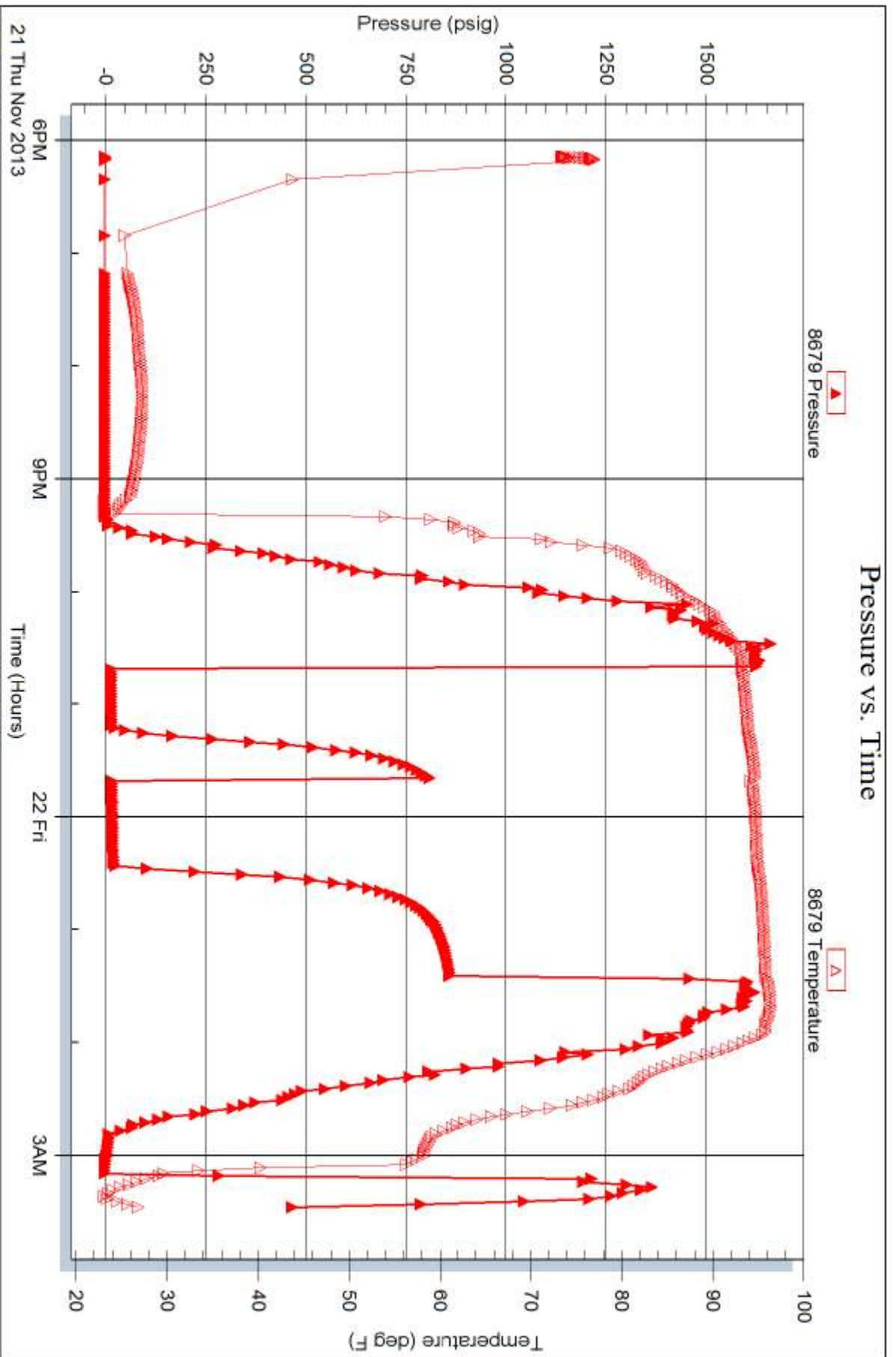
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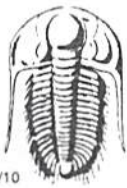
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55775

Well Name & No. White #5-8 Test No. 1 Date 11/21/13
 Company American Hammer, Inc Elevation 1856 KB 1848 GL
 Address 3118 Cummings Rd. PO Box 399 Garden City, KS 67846
 Co. Rep / Geo. Jim Musgrove Rig Duke 8
 Location: Sec. 8 Twp. 16S Rge. 10W Co. Ellsworth State KS

Interval Tested 3286-3326 Zone Tested Arbuckle
 Anchor Length 40' Drill Pipe Run 3282 Mud Wt. 9.4
 Top Packer Depth 3281 Drill Collars Run _____ Vis 52
 Bottom Packer Depth 3286 Wt. Pipe Run _____ WL 7.2
 Total Depth 3326 Chlorides 5900 ppm System LCM Tr

Blow Description IF - Slowly built to 2 1/2"
ISI - No blow
FF - Built very slowly to 1"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>GMCO</u>	<u>10</u>	<u>60</u>	<u>30</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 15 BHT 96° Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1643</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1747</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>1808</u>
(C) First Final Flow <u>24</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>2241</u>
(D) Initial Shut-In <u>802</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0126</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0329</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>124 RT x 2</u>	Comments <u>Loaded tools</u>
(G) Final Shut-In <u>851</u>	<input type="checkbox"/> Sampler <u>384.40</u>	<u>11/22 @ 1520</u>
(H) Final Hydrostatic <u>1599</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1534.40

Total 1534.40
 MP/DST Disc't _____

Approved By _____ Our Representative Brennan L

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