



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Jason T Alm

Dave Albers #3-24

24-20s-22w Ness,KS

Start Date: 2015.04.25 @ 20:00:00

End Date: 2015.04.26 @ 02:24:00

Job Ticket #: 62379 DST #: 1

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

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TESTING, INC**

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PO Box 399
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ATTN: Jason T Alm

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DST#: 1

Test Start: 2015.04.25 @ 20:00:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:20:45
 Tester: Jim Svaty
 Time Test Ended: 02:24:00
 Unit No: 76
 Interval: **4364.00 ft (KB) To 4371.00 ft (KB) (TVD)**
 Reference Elevations: 2233.00 ft (KB)
 Total Depth: 4371.00 ft (KB) (TVD)
 2225.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

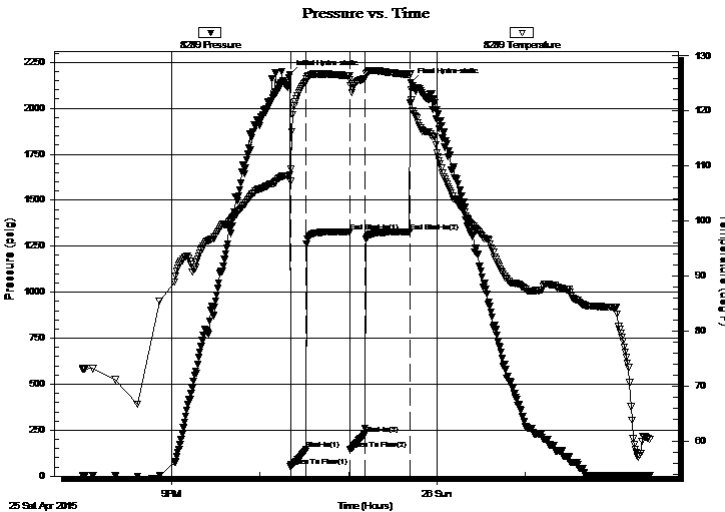
Serial #: 8289

Outside

Press@RunDepth: 228.27 psig @ 4365.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.25 End Date: 2015.04.26 Last Calib.: 2015.04.26
 Start Time: 20:00:02 End Time: 02:24:15 Time On Btm: 2015.04.25 @ 22:20:30
 Time Off Btm: 2015.04.25 @ 23:42:30

TEST COMMENT: 10-IF- BOB in 2 1/2 min.
 30-ISI- BOB in 16 min.
 10-FF- BOB in 4 min.
 30-FSI- Surface Blow in 1 min. Building to 9"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.04	108.39	Initial Hydro-static
1	51.39	107.27	Open To Flow (1)
11	146.92	125.28	Shut-In(1)
41	1329.42	126.42	End Shut-In(1)
41	146.87	125.77	Open To Flow (2)
51	228.27	125.95	Shut-In(2)
81	1328.37	126.65	End Shut-In(2)
82	2140.03	123.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	WMCO 10%w 10%m 80%o	1.49
414.00	GCO 10%g 90%o	5.81
0.00	540 GIP 2- Stds H2S 20ppm	0.00

Gas Rates

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



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TOOL DIAGRAM

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24-20s-22w Ness,KS
Dave Albers #3-24
Job Ticket: 62379 **DST#: 1**
Test Start: 2015.04.25 @ 20:00:00

Tool Information

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 63000.00 lb
		Total Volume: 60.64 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4364.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4337.00	
Shut In Tool	5.00			4342.00	
Hydraulic tool	5.00			4347.00	
Jars	5.00			4352.00	
Safety Joint	2.00			4354.00	
Packer	5.00			4359.00	28.00 Bottom Of Top Packer
Packer	5.00			4364.00	
Stubb	1.00			4365.00	
Recorder	0.00	6668	Inside	4365.00	
Recorder	0.00	8289	Outside	4365.00	
Perforations	3.00			4368.00	
Bullnose	3.00			4371.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



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FLUID SUMMARY

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Dave Albers #3-24
Job Ticket: 62379 **DST#: 1**
Test Start: 2015.04.25 @ 20:00:00

Mud and Cushion Information

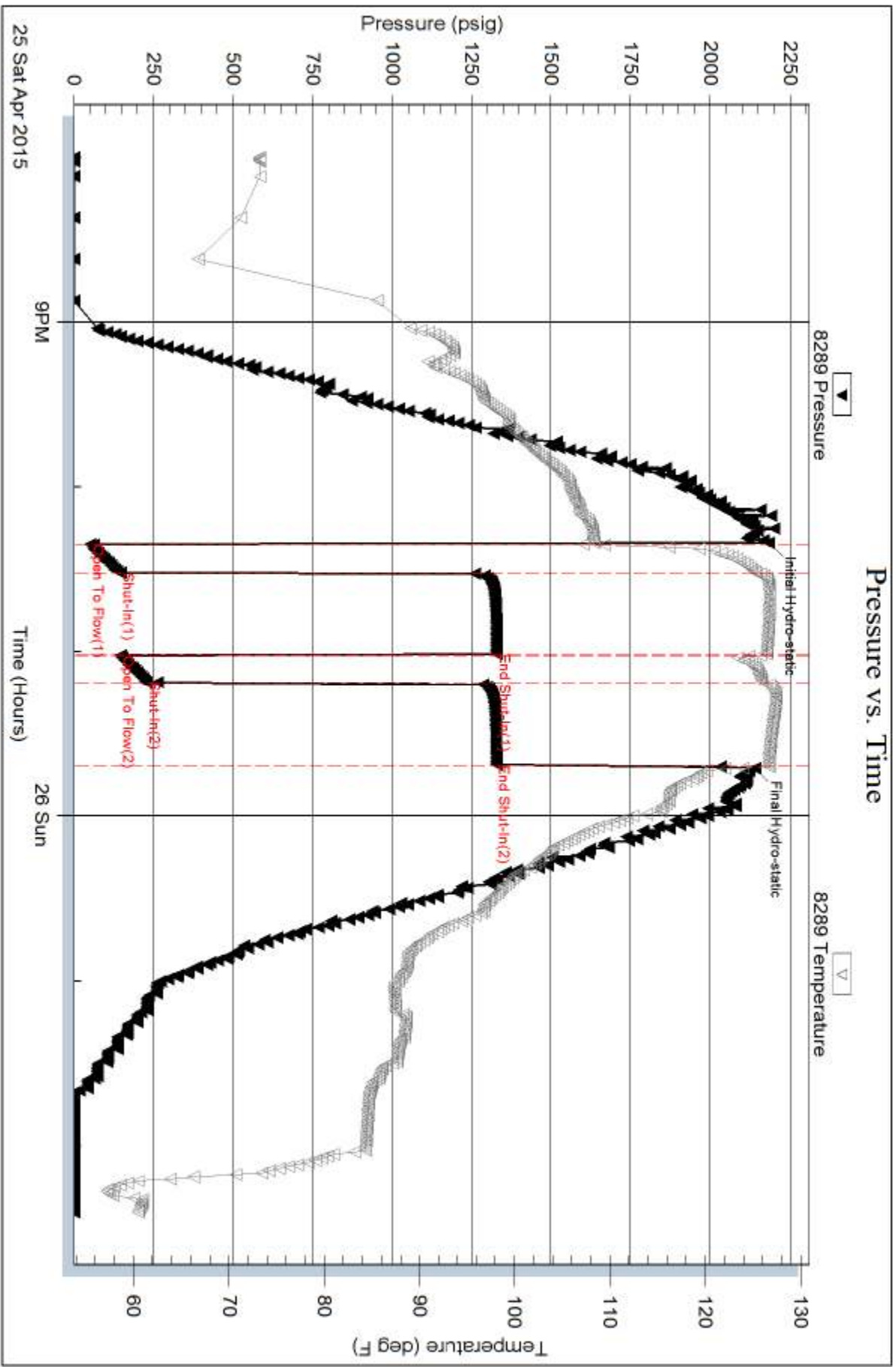
Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	WMCO 10%w 10%m 80%o	1.485
414.00	GCO 10%g 90%o	5.807
0.00	540 GIP 2- Stds H2S 20ppm	0.000

Total Length: 540.00 ft Total Volume: 7.292 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62379

Well Name & No. Dave Albers 3-24 Test No. 1 Date 4-25-15
 Company American Warrior, Inc Elevation 2233 KB 2225 GL
 Address 3118 Cummings Rd Box 399 Garden City KS 67846
 Co. Rep / Geo. JASON T. Alm Rig Discovery 3
 Location: Sec. 24 Twp. 20^s Rge. 22^w Co. Ness State KS

Interval Tested 4364-4371 Zone Tested Miss.
 Anchor Length 7 Drill Pipe Run 4312 Mud Wt. 9.3
 Top Packer Depth 4359 Drill Collars Run 31 Vis 50
 Bottom Packer Depth 4364 Wt. Pipe Run 0 WL 8.8
 Total Depth 4371 Chlorides 5800 ppm System LCM 1

Blow Description IF - BOB in 2 1/2 min.
ISI - BOB in 16 min.
FF - BOB in 4 min.

FSI - Surface Blow in 1 min. Building to 9 in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>Wmco</u>	<u>800</u>	<u>10</u>	<u>10</u>	
<u>414</u>	<u>ACO</u>	<u>10</u>	<u>90</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 540 BHT 126 Gravity 37 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2185</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:04</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:00</u>
(C) First Final Flow <u>146</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:21</u>
(D) Initial Shut-In <u>1329</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>23:41</u>
(E) Second Initial Flow <u>146</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:24</u>
(F) Second Final Flow <u>228</u>	<input checked="" type="checkbox"/> Mileage <u>125 RT</u>	Comments
(G) Final Shut-In <u>1328</u>	<input type="checkbox"/> Sampler <u>125</u>	
(H) Final Hydrostatic <u>2140</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1600</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1600</u>	

Approved By _____ Our Representative [Signature]
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