

1186053

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Raymond 1-21 Unit
Doc ID	1186053

Tops

Name	Top	Datum
Anhydrite	1387	760
Heebner	3616	-1469
Lansing	3662	-1515
Base Kansas City	3992	-1845
Pawnee	4058	-1911
Fort Scott	4133	-1986
Cherokee	4152	-2005
Mississippian	4254	-2107
RTD	4263	-2116

Date 11-3-13 District Carroll County, MO Ticket No. 61946
 Company American Well Rig 2012 Mark
 Lease Boysen Well No. 1-21
 County MOSS State KS
 Location Prize 2E 1N 14E Field _____
MINTO

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size _____ Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.6 Collars x-hole
 Open Hole: Size 12 1/4 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 12677 Lin. ft./Bbl. 1570
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 2142 Lin. ft./Bbl. 7232
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: Freshwater
 Amt. _____ Skys Yield _____ ft³/sk Density 5.74 PPG

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type 60/142 4754
14 F10 Excess _____

Amt. 200 Skys Yield 1.40 ft³/sk Density 12.5 PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 796-17.4K 5
 Bulk Equip. 473-187-300 6

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Freshwater Amt. _____ Bbls. Weight 534 PPG
 Mud Type Mud Weight 9.2 PPG

COMPANY REPRESENTATIVE _____

CEMENTER Dustin E

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						ON location - Rig up
						Had safety meeting
						Ran with drill pipe
						fill hole with Rig and
						hook up cement pump
						1. 1460 - 50 SKS
						2. 1660 - 50 SKS
						3. 2420 - 50 SKS
						4. 60 - 20 SKS
						5. 14 - 30 SKS
						plug down -

ALLIED OIL & GAS SERVICES, LLC 061946

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend, KS

DATE <u>11/3/13</u>	SEC. <u>21</u>	TWP. <u>18S</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00AM</u>	JOB FINISH <u>10:00AM</u>
LEASE <u>Raymond</u>	WELL # <u>1-21</u>		LOCATION <u>Bozine 2E 1N 3/4E</u>			COUNTY <u>NESS</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			<u>NIPTD</u>				

CONTRACTOR Peru Mark
 TYPE OF JOB Rtoxy Plug
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 6 3/4 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 1460
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. All
 PERFS.
 DISPLACEMENT Freshwater

OWNER
 CEMENT
 AMOUNT ORDERED 200 SKS 60% class A
40% pos 44gel 14F10
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
 HANDLING @
 MILEAGE @

EQUIPMENT
 PUMP TRUCK CEMENTER Dustin Chambers
 # 315 HELPER Mike Scott
 BULK TRUCK
 # 473-167 DRIVER Joe Garrison
 BULK TRUCK
 # DRIVER

REMARKS:

Fill hole with Rig mud
1, 1460-50SKS
2, 660-50SKS
3, 240-50SKS
4, 60-20SKS
5, RH-30SKS
Plug Job - 9:30 AM

CHARGE TO: American Warrior
 STREET
 CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Ken Bouch
 SIGNATURE X Ken Bouch

Thank You!!

TOTAL
 SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 MANIFOLD @

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 @
 TOTAL

SALES TAX (If Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

3118 Cummings Rd
Garden City, KS 67846

ATTN: Jason Alm

Raymond #1-21 Unit

21-18s-21w Ness,KS

Start Date: 2013.11.02 @ 06:41:43

End Date: 2013.11.02 @ 13:01:43

Job Ticket #: 54963 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.06 @ 10:49:21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior
3118 Cummings Rd
Garden City, KS 67846
ATTN: Jason Alm

21-18s-21w Ness, KS
Raymond #1-21 Unit
Job Ticket: 54963 **DST#: 1**
Test Start: 2013.11.02 @ 06:41:43

GENERAL INFORMATION:

Formation: **Cherokee A Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:06:13
Time Test Ended: 13:01:43
Interval: **4146.00 ft (KB) To 4180.00 ft (KB) (TVD)**
Total Depth: 4180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 60
Reference Elevations: 2147.00 ft (KB)
2141.00 ft (CF)
KB to GR/CF: 6.00 ft

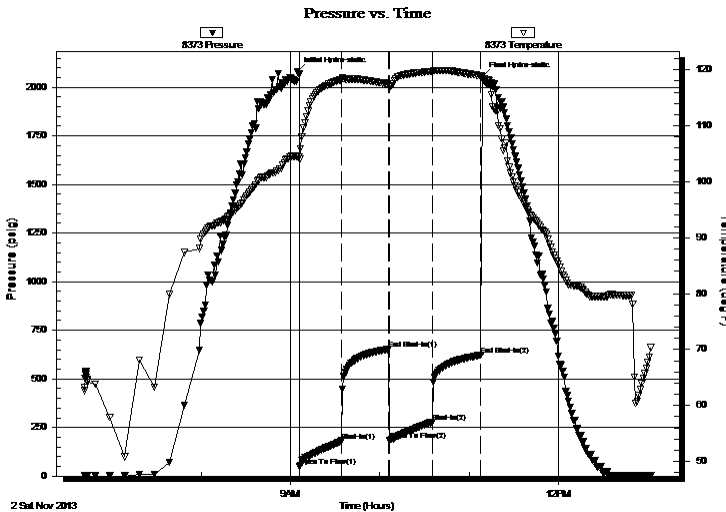
Serial #: 8373

Inside

Press @ Run Depth: 277.52 psig @ 4147.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.02 End Date: 2013.11.02 Last Calib.: 2013.11.02
Start Time: 06:41:48 End Time: 13:01:42 Time On Btm: 2013.11.02 @ 09:04:43
Time Off Btm: 2013.11.02 @ 11:08:43

TEST COMMENT: IF: BOB in 8 min.
IS: No return.
FF: BOB in 11 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.86	104.51	Initial Hydro-static
2	51.44	104.02	Open To Flow (1)
30	180.81	118.29	Shut-In(1)
61	652.63	117.49	End Shut-In(1)
62	182.52	117.11	Open To Flow (2)
91	277.52	119.72	Shut-In(2)
123	622.29	118.98	End Shut-In(2)
124	2055.04	118.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	mcw 95%w 5%m	4.14
155.00	w cm 20%w 80%m	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior
3118 Cummings Rd
Garden City, KS 67846
ATTN: Jason Alm

21-18s-21w Ness, KS
Raymond #1-21 Unit
Job Ticket: 54963 **DST#: 1**
Test Start: 2013.11.02 @ 06:41:43

Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 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: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4146.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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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Stubb	1.00			4119.00	
Shut In Tool	5.00			4124.00	
Hydraulic tool	5.00			4129.00	
Jars	5.00			4134.00	
Safety Joint	3.00			4137.00	
Packer	5.00			4142.00	28.00 Bottom Of Top Packer
Packer	4.00			4146.00	
Stubb	1.00			4147.00	
Recorder	0.00	8373	Inside	4147.00	
Recorder	0.00	8356	Outside	4147.00	
Perforations	28.00			4175.00	
Bullnose	5.00			4180.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior
3118 Cummings Rd
Garden City, KS 67846
ATTN: Jason Alm

21-18s-21w Ness, KS
Raymond #1-21 Unit
Job Ticket: 54963 **DST#: 1**
Test Start: 2013.11.02 @ 06:41:43

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 36000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	mcw 95%w 5%m	4.143
155.00	w cm 20%w 80%m	2.174

Total Length: 527.00 ft Total Volume: 6.317 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .21@68=36000

Serial #: 8373

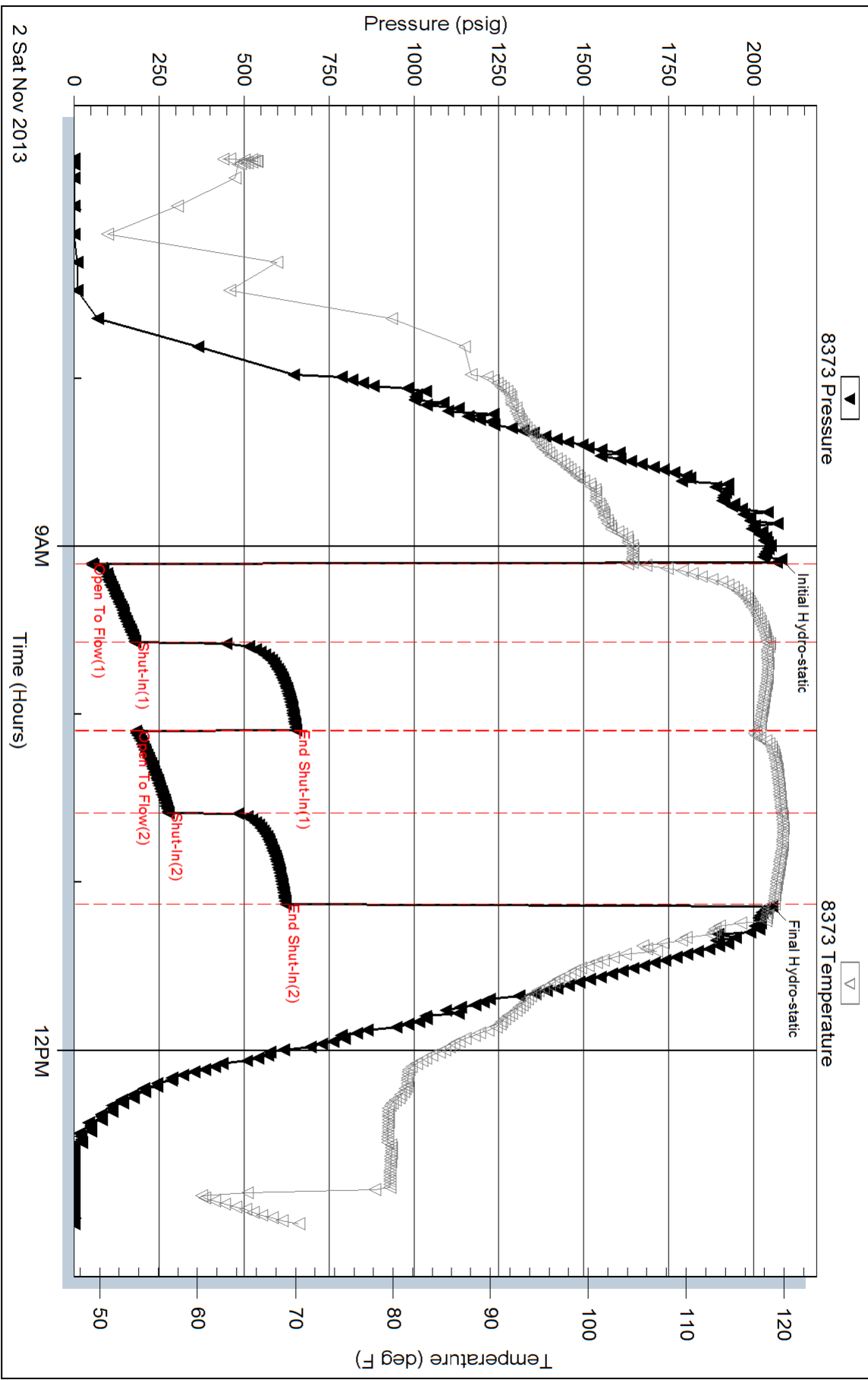
Inside

American Warrior

Raymond #1-21 Unit

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54963

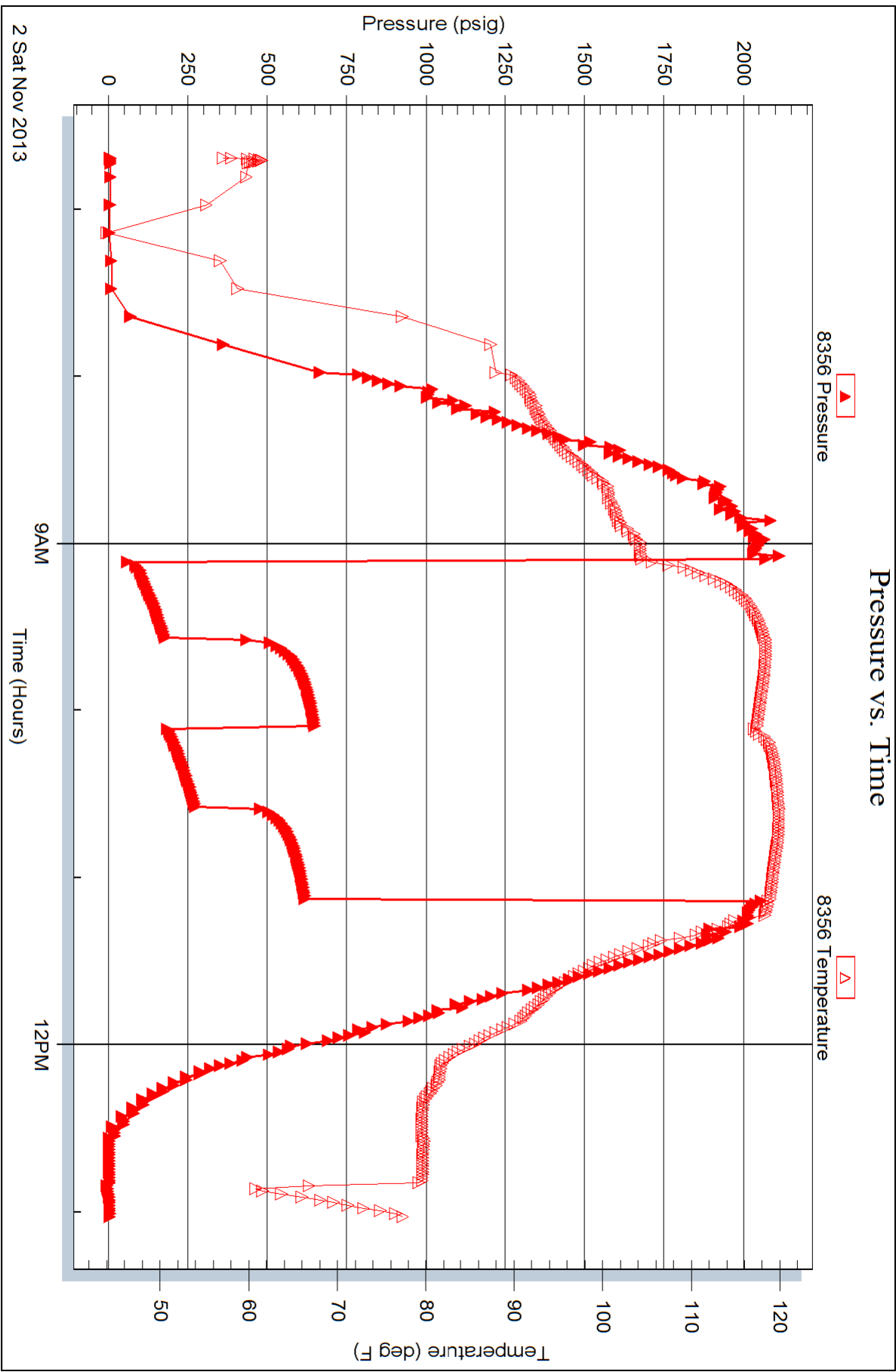
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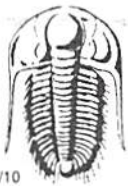
Serial #: 8356

Outside American Warrior

Raymond #1-21 Unit

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54963

Well Name & No. Raymond #1-21 unit Test No. 1 Date 11-2-13
 Company American Warrior Elevation 2147 KB 2141 GL
 Address 3118 Cummings Rd Garden City, KS 67846
 Co. Rep / Geo. Jason Alm Rig Petromark
 Location: Sec. 21 Twp. 18S Rge. 21W Co. Ne55 State KS

Interval Tested 4146 4180 Zone Tested Cher A Sand
 Anchor Length 34 Drill Pipe Run 4030 Mud Wt. 9.3
 Top Packer Depth 4141 Drill Collars Run 118 Vis 46
 Bottom Packer Depth 4146 Wt. Pipe Run — WL 8.8
 Total Depth 4180 Chlorides 6300 ppm System LCM 0

Blow Description IF: BoB in 8 min.
FS: No return.
FF: BoB in 11 min.
FS: NO return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>wcm</u>		<u>20</u>	<u>80</u>	
<u>372</u>	<u>MLW</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>527</u>	BHT <u>119</u>	Gravity <u>—</u>	API RW <u>.21</u> @ <u>68</u> °F	Chlorides <u>36,000</u> ppm

(A) Initial Hydrostatic 2081 Test 1250 T-On Location 5:27
 (B) First Initial Flow 51 Jars 250 T-Started 6:41
 (C) First Final Flow 180 Safety Joint 75 T-Open 9:05
 (D) Initial Shut-In 652 Circ Sub NIL T-Pulled 11:05
 (E) Second Initial Flow 182 Hourly Standby T-Out 13:00
 (F) Second Final Flow 277 Mileage 160 - 100rt x2 310 Comments out of town pry
 (G) Final Shut-In 622 Sampler loaded tools 11/3 2:30
 (H) Final Hydrostatic 2055 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1885
 Accessibility MP/DST Disc't
 Sub Total 1885

Approved By _____ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Geological Report

American Warrior, Inc.
Raymond #1-21 Unit
2530' FSL & 1680' FEL
Sec. 21 T18s R21w
Ness County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Raymond #1-21 Unit
2530' FSL & 1680' FEL
Sec. 21 T18s R21w
Ness County, Kansas
API # 15-135-25664-0000

Drilling Contractor: Petromark Drilling, LLC. Rig #1

Geologist: Jason T. Alm

Spud Date: October 26, 2013

Completion Date: November 3, 2013

Elevation: 2141' Ground Level
2147' Kelly Bushing

Directions: Bazine KS, East on Hwy 96 to FF rd. North 1 mi. to
140 Rd. East ½ mi. North into location.

Casing: 228' 8 5/8" surface casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3500' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Brandon Turley"

Problems: None

Remarks: None

Formation Tops

American Warrior, Inc.	
Raymond #1-21 Unit	
Sec. 21 T18s R21w	
Formation	2530' FSL & 1680' FEL
Anhydrite	1387', +760
Base	1417', +730
Heebner	3616', -1469
Lansing	3662', -1515
BKc	3992', -1845
Pawnee	4058', -1911
Fort Scott	4133', -1986
Cherokee	4152', -2005
Mississippian	4254', -2107
RTD	4263', -2116

Sample Zone Descriptions

Cher. "A" Sand (4156', -2009): Covered in DST #1
 Ss – Fine grained, well sorted, fair to well cemented, fair to well-rounded with poor to fair inter-granular porosity, light spotted oil stain in cluster, no show of free oil, no odor, light yellow spotted cut fluorescents, 11 units hotwire.

Drill Stem Tests

Trilobite Testing, Inc.
 "Brandon Turley"

DST #1 **Cherokee "A" Sand**
 Interval (4146' – 4180') Anchor Length 34'
 IHP – 2082 #
 IFP – 30" – B.O.B. 8 min. 51-181 #
 ISI – 30" – Dead 653 #
 FFP – 30" – B.O.B. 11 min. 183-278 #
 FSI – 30" – Dead 622 #
 FHP – 2055 #
 BHT – 119°F

Recovery: 155' WCM 20% Water
 372' MCW 95% Water

Structural Comparison

Formation	American Warrior, Inc. Raymond #1-21 Unit Sec. 21 T18s R21w 2530' FSL & 1680' FEL	Ferguson Oil & Gas Clarence Foos #1 Sec. 21 T18s R21w C NW SW	American Warrior, Inc. Ryersee #3-28 Sec. 28 T18s R21w 840' FNL & 430' FEL
Anhydrite	1387', +760	1380', +760	FL 1335', +773 (-13)
Base	1417', +730	NA	NA 1367', +741 (-11)
Heebner	3616', -1469	3601', -1461	(-8) 3574', -1466 (-3)
Lansing	3662', -1515	3649', -1509	(-6) 3618', -1510 (-5)
BKc	3992', -1845	NA	NA NA NA
Pawnee	4058', -1911	4046', -1906	(-5) 4012', -1904 (-7)
Fort Scott	4133', -1986	4121', -1981	(-5) 4089', -1980 (-6)
Cherokee	4152', -2005	4141', -2001	(-4) 4106', -1998 (-7)
Mississippian	4254', -2107	4228', -2088	(-19) 4189', -2081 (-26)

Summary

The location for the Raymond #1-21 Unit was found via 3-D seismic survey. The new well ran structurally as expected on all datums besides the Mississippian. One drill stem test was conducted which was negative. After all gathered data had been examined the decision was made to plug and abandon the Raymond #1-21 Unit well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



Geologic Report

Drilling Time and Sample Log

Drilling Contractor: Petromark Drilling, LLC. Rig #1
 Commenced: 10-26-2013 Completed: 11-3-2013

Samples Saved From: 3900' To: RTD
 Drilling Time Kept From: 3500' To: RTD
 Samples Examined From: 3900' To: RTD
 Geological Supervision From: 3900' To: RTD

Operator American Warrior, Inc.		Elevation KB 2147'
Lease Raymond	No. 1-21 Unit	DF GL 2141'
API # 15-135-25664-0000		
Field Wildcat		
Location 2530' FSL & 1680' FEL		
Casing Record Surface 8 5/8" @ 228"		
Production None		
Electrical Surveys None		
Sec. 21	Twp. 18s	Rge. 21w
County Ness		State Kansas

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite Base		1387' +760	FL
Heebner		3616' -1469	-8
Lansing		3662' -1515	-6
BKc		3992' -1845	
Pawnee		4058' -1911	-5
Fort Scott		4133' -1986	-5
Cherokee		4152' -2005	-4
Mississippian		4254' -2107	-19
Total Depth		4263' -2116	

Reference Well For Structural Comparison **Ferguson Oil & Gas Clarence Foss #1**
 CNW SW Sec. 21 T18s R21w Ness Co. Kansas

Displacement 3400' Mud Type Chemical

Summary and Recommendations

The location for the Raymond #1-21 Unit was found via 3-D seismic survey. The new well ran structurally as expected on all datums besides the Mississippian. One drill stem test was conducted which was negative. After all gathered data had been examined the decision was made to plug and abandon the Raymond #1-21 Unit well.

Respectfully Submitted,

Jason T Alm
 Hard Rock Consulting, Inc.

