



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1237150
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1237150

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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: _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'Brate Finney 1-5
Doc ID	1237150

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'Brate Finney 1-5
Doc ID	1237150

Tops

Name	Top	Datum
Anhy	1881	+979
B/Anhy	1980'	+880
Heebner	3829'	-969
Lansing	3877'	-1017
B/KC	4350'	-1490
Marnaton	4375'	-1515
Ft.Scott	4472'	-1612
Morrow	4658'	-1798
Mississippian	4677'	-1817

CEMENTING LOG

Date 11/30/2014 District Liberal # 21 Ticket No. 64532
 Company AMERICAN WARRIOR Rig DUKE # 10
 Lease O"BRATE FINNEY Well No 1-5
 County FINNEY CO. State KS.
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 8 5/8 Type j-55 Weight 24 # Collar _____

CEMENT DATA

Spacer Type 5 bbls h20
 Amt. _____ Sks Yield _____ ft³/sk Density 8.34 PPG _____
 LEAD: Time _____ hrs. Type ALWC 1 CLASS A
3% CC BWOC, 1/2 LB SK FLOSEAL Excess 100%
 Amt. 625 Sks Yield 2 ft³/sk Density 12.46 PPG _____
 TAIL: Time _____ hrs. Type CLASS C NEAT
3% CC, 1/4 LB/SK FLOSEAL Excess 100%
 Amt. 200 Sks Yield 1.2 ft³/sk Density 14.83 PPG _____
 WATER Lead 14.05 Gal/sk Tail 5.2 Gal/sk Total 187 BBLs

Casing Depths Top _____ Bottom 1725 FT.

Pump Trucks Used: 531-541
 Bulk Equipment 956-841
955-692

Drill Pipe: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Open Hole: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Capacity Factors: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Casing BBLs/LIN. FT 0.0637 LIN. FT/BBL 15.698
 Open Holes BBLs/LIN. FT _____ LIN. FT/BBL _____
 Drill Pipe BBLs/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLs/LIN. FT 0.0735 LIN. FT/BBL 13.605
 BBLs/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

Float Equipment: Manufacturer WEATHERFORD
 Shoe: Type GUIDESHOE Depth 1725 FT.
 Float: Type AFU INSERTFLOAT Depth 1685.95 FT.
 Centralizers: Quantity 3 Plugs Top 1 Bottom _____
 Stage Collars _____
 Special Equipment 1 basket
 Disp: Fluid Type H2O Amt 107 bbls Weight 8.34 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE ALEX CEMENTER Ruben Chavez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	
2:00 PM.						Got To Location Spot Trucks, And Rig Up.
6:50						Have A Prejob Safety Meeting
7:20		250		2	2	Pump 2 BBLs H2O To Fill Pump Lines
7:24						PRESSURE TEST 2000 pumping lines
7:27		250		5	3	4 Start pumpin g spacer 8 bbls h20
7:30		360		227.3	222.3	5 Start pumping lead cement 625 SK CEMENT, 222.3 bbls slurry.
8:10		160		270.1	42.8	5.5 Start pumpin g tail cement, 200 sk, 42.8 bbls slurry.
8:18						Shut down
						Wash pumping lines
						Drop the plug
8:20		0		300.1	30	7 Start displacement
8:24		360		365.1	65	5.5 Catch up cement pressure at
8:36		650		377.1	12	3 Slowdown pumping rate to 3 bpm.
8:40		800				Finished displacment
		1300				B ump the plug at 1300 psi
						Circulate 20 bbls slurry to pit.
8:45						Release the pressure; float held good.
						Job finished
						Rig down
						Thankyou

FINAL DISP. PRESS. 800 PSI BUMP PLUG TO 1300 PSI BLEEDBACK 0.5 BBLs **THANK YOU**



CHARGE TO: *American Warrior*

ADDRESS

CITY, STATE, ZIP CODE

TICKET 28126

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Ness City KS</i>	WELL/PROJECT NO. <i>1-5</i>	LEASE <i>O'Boate-Finney</i>	COUNTY/PARISH <i>Finney</i>	STATE <i>KS</i>	CITY <i>Garden City</i>	DATE <i>9 Dec 14</i>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>pure</i>	RIG NAME/NO. <i>10</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>location</i>	ORDER NO.	
3.	WELL TYPE <i>0.1</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>cement long string</i>	WELL PERMIT NO.	WELL LOCATION <i>5-23-32</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>575</i>		<i>1</i>			MILEAGE <i>TRK 110</i>	<i>90</i>	<i>mi</i>			<i>6.00</i>	<i>540.00</i>
<i>57B</i>		<i>1</i>			<i>Pump Charge</i>	<i>1</i>	<i>ea</i>			<i>1500.00</i>	<i>1500.00</i>
<i>402</i>		<i>1</i>			<i>Centralizer</i>	<i>5 1/2</i>	<i>in</i>	<i>9</i>	<i>ea</i>	<i>70.00</i>	<i>630.00</i>
<i>403</i>		<i>1</i>			<i>Cement Basket</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>300.00</i>	<i>300.00</i>
<i>406</i>		<i>1</i>			<i>Latch down plug & kaffle</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>275.00</i>	<i>275.00</i>
<i>407</i>		<i>1</i>			<i>Insert float shoe w/ AUTO FILL</i>	<i>5 1/2</i>	<i>in</i>	<i>1</i>	<i>ea</i>	<i>375.00</i>	<i>375.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED

TIME SIGNED A.M. P.M.

11/10

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 1	<i>3620.00</i>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2	<i>6056.13</i>
WE UNDERSTOOD AND MET YOUR NEEDS?				subtotal	<i>9676.13</i>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Finney TAX	<i>471.69</i>
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				7.3%	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	<i>10,147.82</i>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 28126

CUSTOMER American Warrior
WELL OB RATE - Finney 1-5
DATE 9 Dec 14
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY				UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
325		1				STANDARD cement (ForsA-2)	175	sk			14.50	2537.50	
284		1				calseal	800	lb	8	sk	35.00	280.00	
283		1				salt	900	lb			0.20	180.00	
292		1				halad - 322	125	lb			8.00	1000.00	
276		1				flocele	50	lb			2.50	125.00	
290		1				D-AIR	2	gal			42.00	84.00	
281		1				mud flush	500	gal			1.25	625.00	
221		1				KCL liquid	2	gal			25.00	50.00	
581		1				SERVICE CHARGE	175	CUBIC FEET			2.00	350.00	
583		1				MILEAGE CHARGE	18325	TOTAL WEIGHT	90	LOADED MILES	824.63	TON MILES	824.63

CONTINUATION TOTAL 6056.13

JOB LOG

SWIFT Services, Inc.

DATE 9 DEC 14 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-5 LEASE ORATE - Finney JOB TYPE Cement long string TICKET NO. 28626

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 SL SA-2 cement w/ 7# floate TD=5000' 19jts 5 1/2" x 15.5" casing 4975' shoejt 21' Cent 1, 3, 5, 7, 9, 11, 13, 15, 17 Basket #10
	0700							on loc TRK 110
	0920							start 5 1/2" x 15.5" casing in well
	1135							Drop ball - circulate
	1214	3 1/2	12				300	Pump 500gal mud flush
		3 1/2	20				300	Pump 20 bbl KCL flush
			7					Plug RH - MH 30 sk - 20 sk
	1230	3 1/2	35				300	mix SA-2 cement 125 sk @ 15.3 fpg
								Drop latch down plug wash out pump & line
	1250	6					200	Displace plug
		4	110				800	
	1330	4	119				1700	Land plug
								Release pressure to truck - dried up
								wash truck
								Rack up
	1410							job complete
								Thru Flint, Blaine & PRESTON



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

O'Brate-Finney #1 5

5-23-32 Finney,KS

Start Date: 2014.12.05 @ 06:53:15

End Date: 2014.12.05 @ 12:40:00

Job Ticket #: 58552 DST #: 1

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

Printed: 2014.12.10 @ 15:38:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

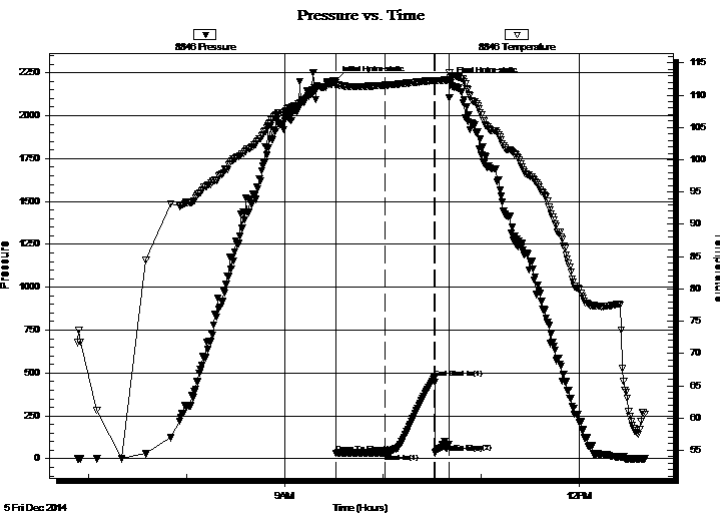
5-23-32 Finney,KS
O'Brate-Finney #1 5
 Job Ticket: 58552 **DST#: 1**
 Test Start: 2014.12.05 @ 06:53:15

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:31:15
 Time Test Ended: 12:40:00
 Interval: **4390.00 ft (KB) To 4442.00 ft (KB) (TVD)**
 Total Depth: 4442.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 2860.00 ft (KB)
 2847.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8846 **Inside**
 Press@RunDepth: 34.47 psig @ 4394.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.05
 Start Time: 06:53:15 End Time: 12:40:00 Time On Btm: 2014.12.05 @ 09:31:00
 Time Off Btm: 2014.12.05 @ 10:41:00

TEST COMMENT: IF: Built to weak surface blow that died in 2 min.
 IS: No return blow
 FF: No blow
 FS: Pulled test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.32	111.96	Initial Hydro-static
1	33.70	111.53	Open To Flow (1)
31	34.47	111.54	Shut-In(1)
61	472.44	112.29	End Shut-In(1)
61	35.53	112.17	Open To Flow (2)
70	84.94	112.38	Shut-In(2)
70	2199.74	112.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.03

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

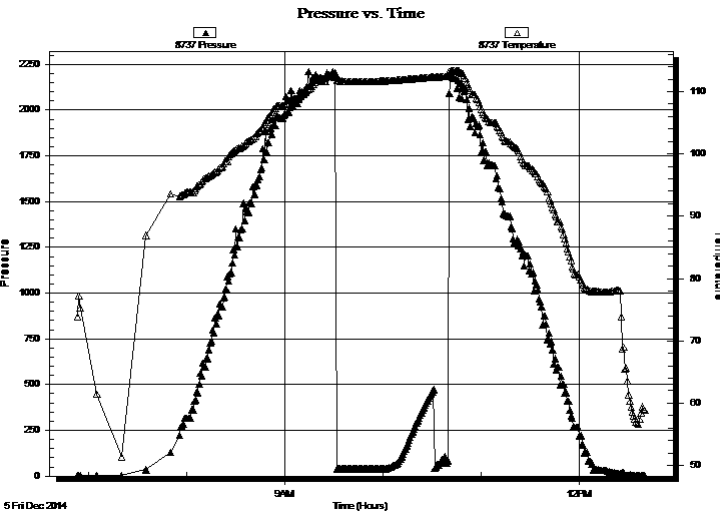
5-23-32 Finney,KS
O'Brate-Finney #1 5
 Job Ticket: 58552 **DST#: 1**
 Test Start: 2014.12.05 @ 06:53:15

GENERAL INFORMATION:

Formation: **Marmaton**
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 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 2860.00 ft (KB)
 2847.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8737 Outside
 Press@RunDepth: psig @ 4394.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.05
 Start Time: 06:53:15 End Time: 12:39:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow that died in 2 min.
 IS: No return blow
 FF: No blow
 FS: Pulled test



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

5-23-32 Finney,KS
O'Brate-Finney #1 5
Job Ticket: 58552 **DST#: 1**
Test Start: 2014.12.05 @ 06:53:15

Tool Information

Drill Pipe:	Length: 4387.00 ft	Diameter: 3.80 inches	Volume: 61.54 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4390.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00			4373.00	
Jars	5.00			4378.00	
Safety Joint	3.00			4381.00	
Packer	5.00			4386.00	28.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Perforations	3.00			4394.00	
Recorder	0.00	8846	Inside	4394.00	
Recorder	0.00	8737	Outside	4394.00	
Change Over Sub	1.00			4395.00	
Blank Spacing	31.00			4426.00	
Change Over Sub	1.00			4427.00	
Perforations	10.00			4437.00	
Bullnose	5.00			4442.00	52.00 Bottom Packers & Anchor
Total Tool Length:	80.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

5-23-32 Finney,KS
O'Brate-Finney #1 5
Job Ticket: 58552 **DST#: 1**
Test Start: 2014.12.05 @ 06:53:15

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:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.16 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2250.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100% m	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

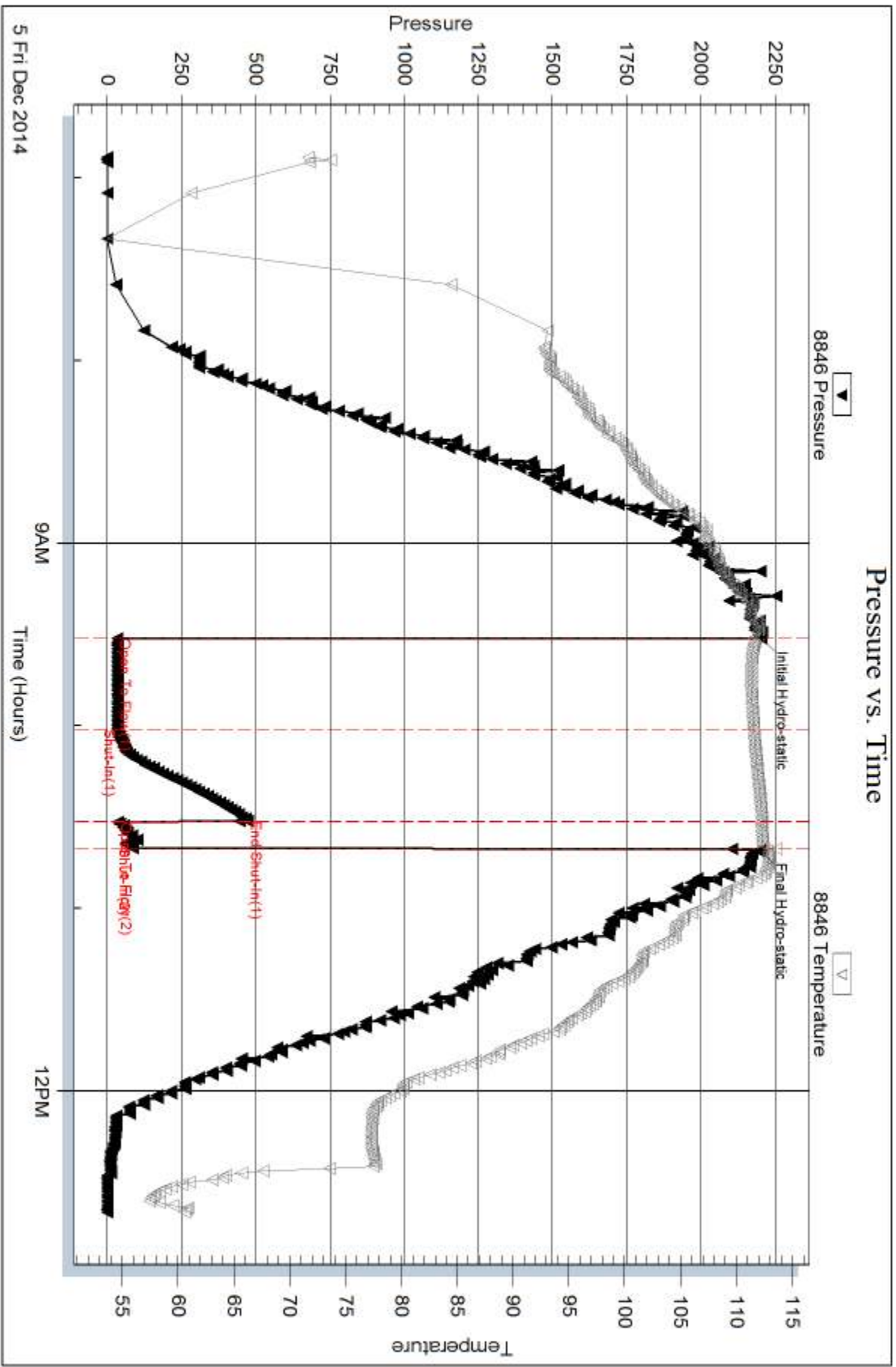
Serial #: 8846

Inside

American Warrior Inc.

O'Brate-Finney #1 5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58552

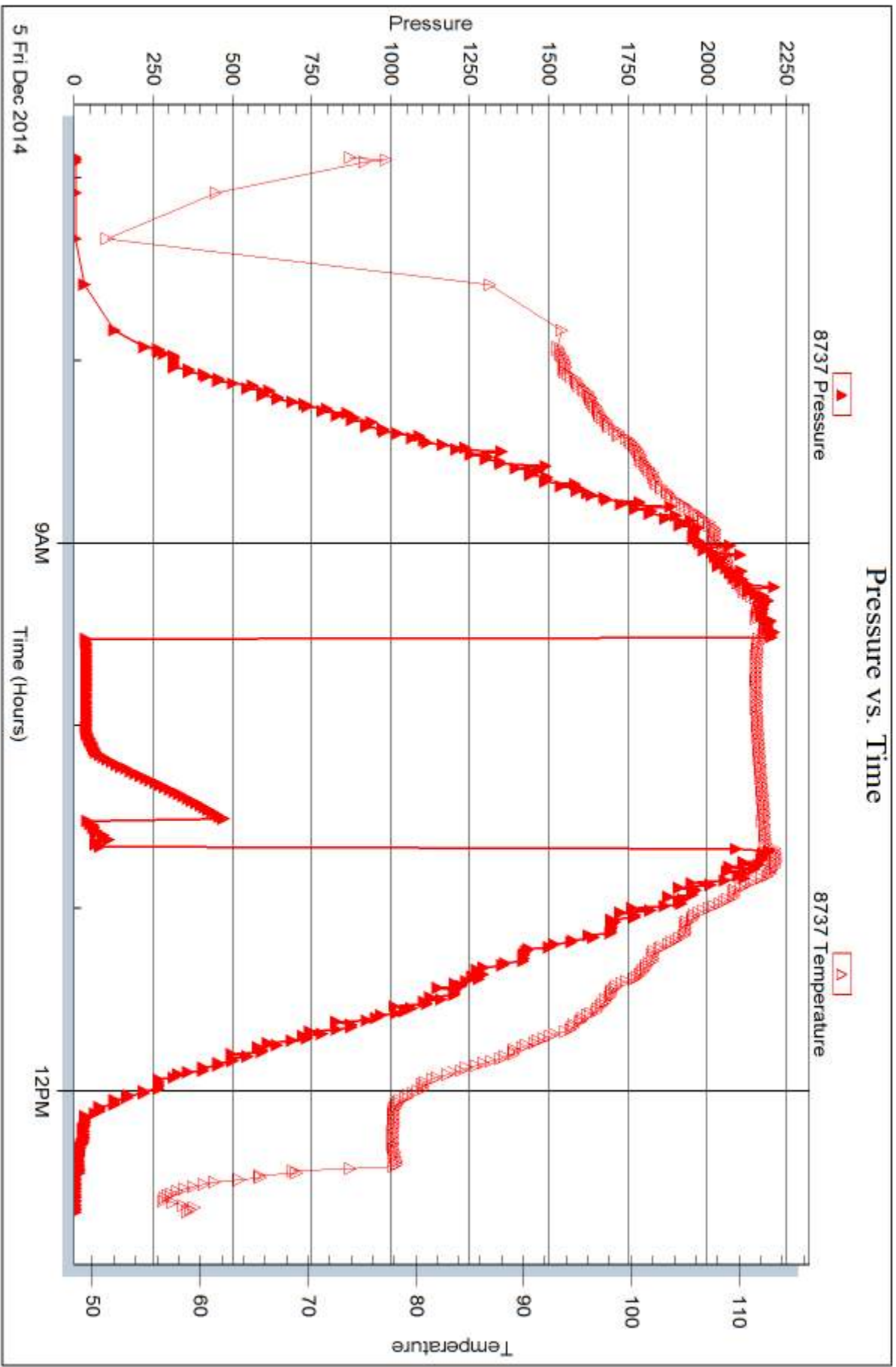
Printed: 2014.12.10 @ 15:38:44

Serial #: 8737

Outside American Warrior Inc.

O'Brate-Finney #1 5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 58552

Printed: 2014.12.10 @ 15:38:45



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

O'Brate-Finney #1 5

5-23-32 Finney,KS

Start Date: 2014.12.05 @ 22:58:15

End Date: 2014.12.06 @ 07:10:30

Job Ticket #: 58553 DST #: 2

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

Printed: 2014.12.10 @ 15:38:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

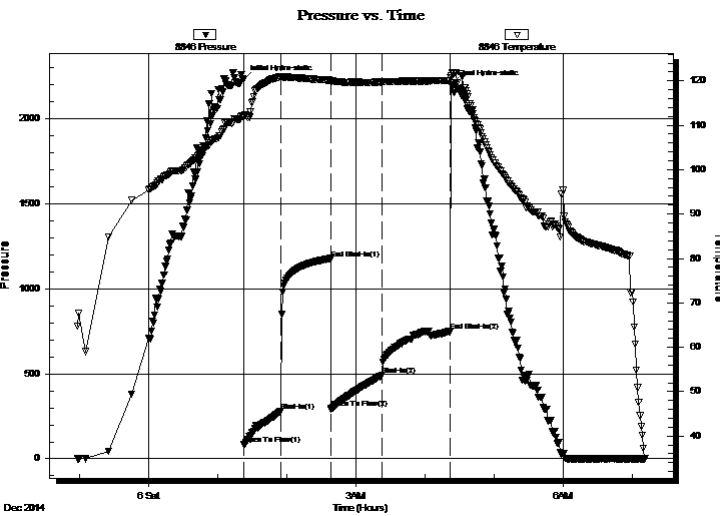
5-23-32 Finney,KS
O'Brate-Finney #1 5
Job Ticket: 58553 **DST#: 2**
Test Start: 2014.12.05 @ 22:58:15

GENERAL INFORMATION:

Formation: **Pawnee-Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:22:45
Time Test Ended: 07:10:30
Interval: **4432.00 ft (KB) To 4511.00 ft (KB) (TVD)**
Total Depth: 4511.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 65
Reference Elevations: 2860.00 ft (KB)
2847.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: 490.63 psig @ 4436.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.12.05 End Date: 2014.12.06 Last Calib.: 2014.12.06
Start Time: 22:58:15 End Time: 07:10:30 Time On Btm: 2014.12.06 @ 01:22:15
Time Off Btm: 2014.12.06 @ 04:22:00

TEST COMMENT: IF:BOB in 3 min
IS:No return blow
FF:BOB in 4 min
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.96	112.03	Initial Hydro-static
1	83.08	111.90	Open To Flow (1)
32	280.92	120.92	Shut-In(1)
76	1179.21	120.14	End Shut-In(1)
76	299.59	119.81	Open To Flow (2)
120	490.63	119.77	Shut-In(2)
179	749.35	120.06	End Shut-In(2)
180	2200.94	120.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
651.00	ocgm 20%o 30%g 50%m	9.13
186.00	gcow m 10%g 10%o 30%w 50%m	2.61
186.00	ocgw 10%o30%g 60%w	2.61
186.00	gcow 20%g 40%o 40%w	2.61
186.00	mcw 50%m 50%w	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

5-23-32 Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #1 5

Job Ticket: 58553

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.12.05 @ 22:58:15

Tool Information

Drill Pipe:	Length: 4420.00 ft	Diameter: 3.80 inches	Volume: 62.00 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4432.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	107.00 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			4405.00	
Shut In Tool	5.00			4410.00	
Hydraulic tool	5.00			4415.00	
Jars	5.00			4420.00	
Safety Joint	3.00			4423.00	
Packer	5.00			4428.00	28.00 Bottom Of Top Packer
Packer	4.00			4432.00	
Stubb	1.00			4433.00	
Perforations	3.00			4436.00	
Recorder	0.00	8846	Inside	4436.00	
Recorder	0.00	8737	Outside	4436.00	
Change Over Sub	1.00			4437.00	
Blank Spacing	63.00			4500.00	
Change Over Sub	1.00			4501.00	
Perforations	5.00			4506.00	
Bullnose	5.00			4511.00	79.00 Bottom Packers & Anchor
Total Tool Length:	107.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

5-23-32 Finney,KS
O'Brate-Finney #1 5
Job Ticket: 58553 **DST#: 2**
Test Start: 2014.12.05 @ 22:58:15

Mud and Cushion Information

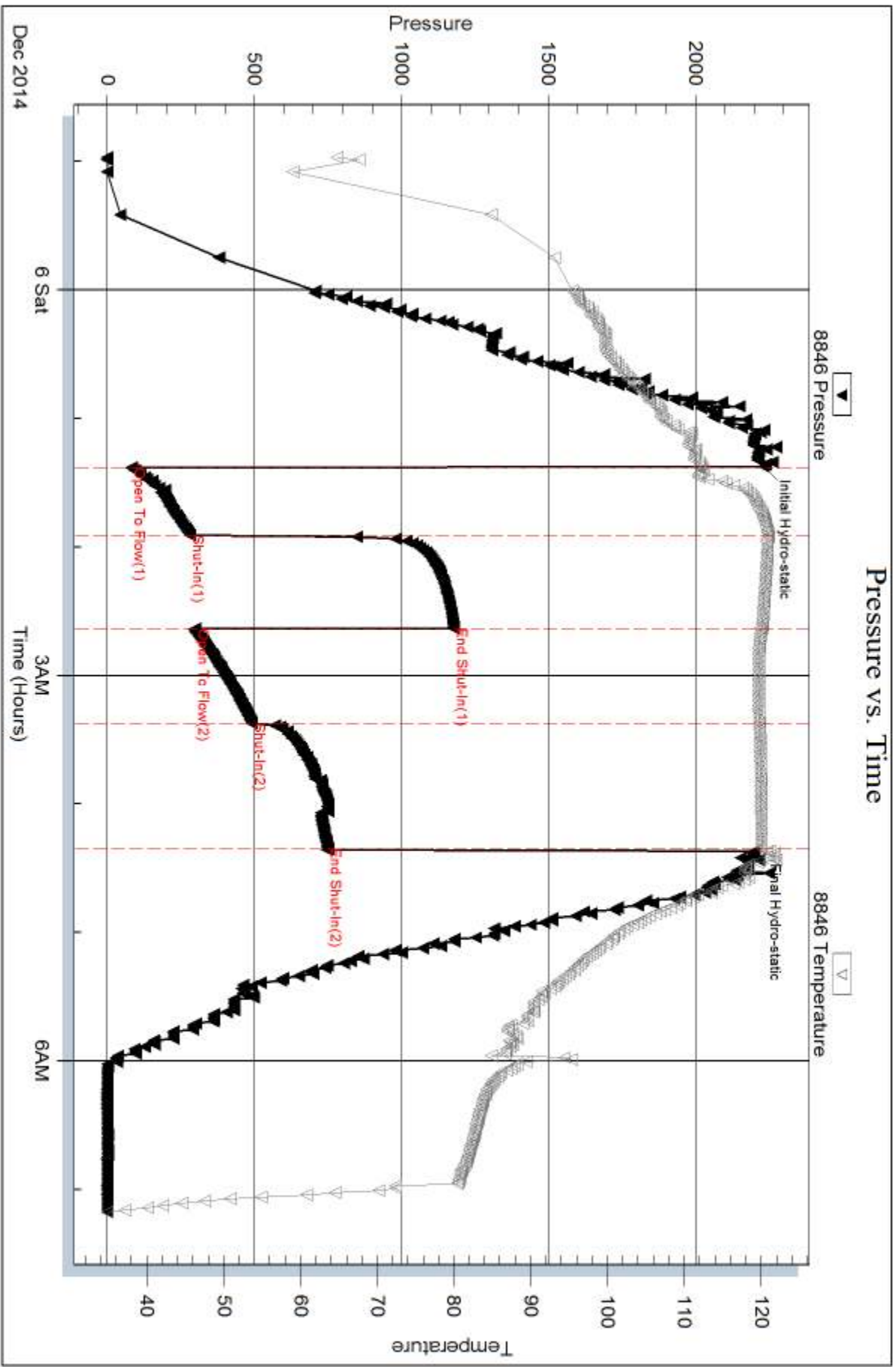
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 29000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.57 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1800.00 ppm		
Filter Cake: 1.00 inches		

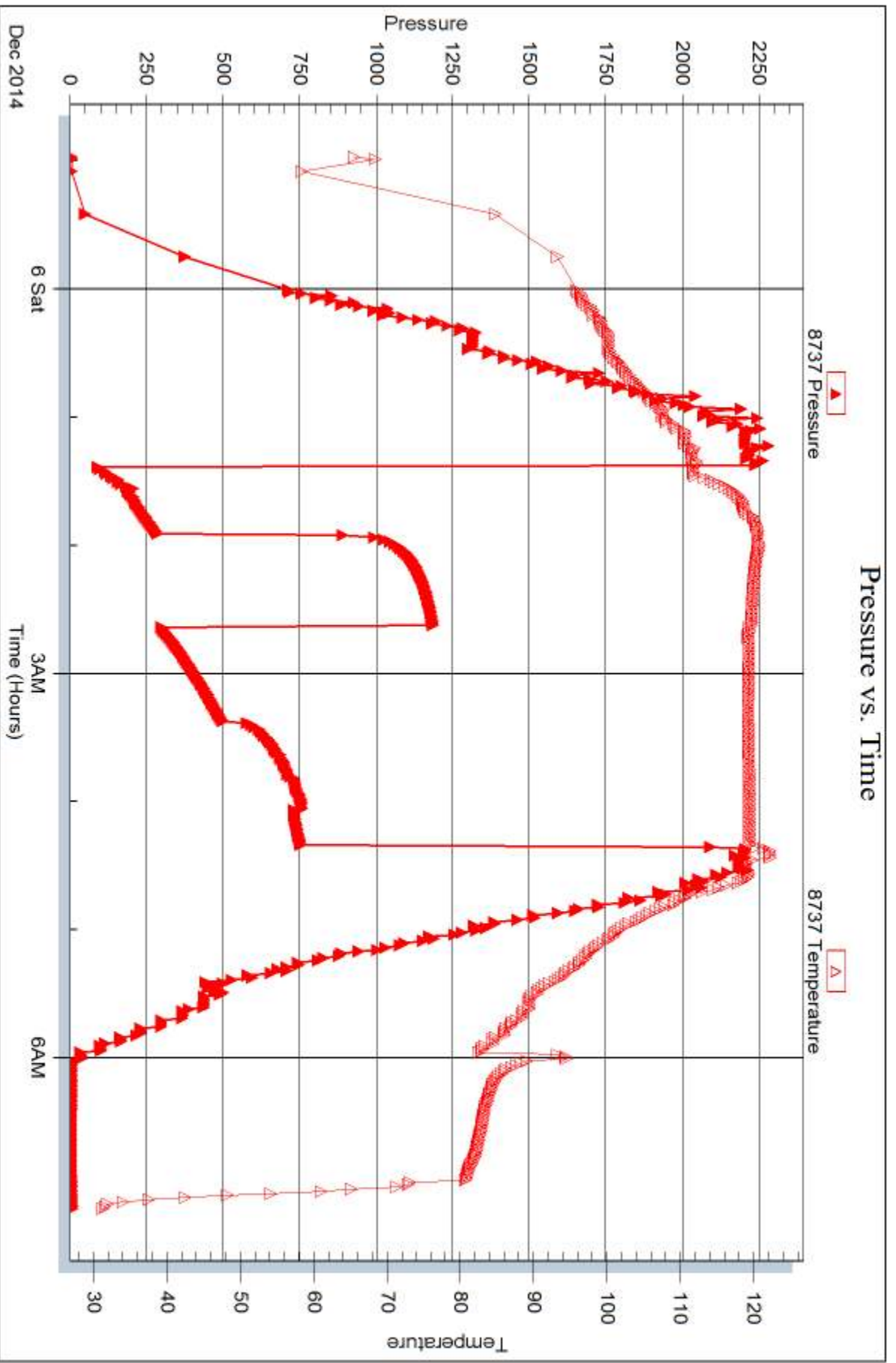
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
651.00	ocgm 20%o 30%g 50%m	9.132
186.00	gcow m 10%g 10%o 30%w 50%m	2.609
186.00	ocgw 10%o30%g 60%w	2.609
186.00	gcow 20%g 40%o 40%w	2.609
186.00	mcw 50%m 50%w	2.609

Total Length: 1395.00 ft Total Volume: 19.568 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW= .40@55*= 29,000 ppm







DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Kevin Timson

O'Brate-Finney #1 5

5-23-32 Finney,KS

Start Date: 2014.12.07 @ 08:53:15

End Date: 2014.12.07 @ 17:46:15

Job Ticket #: 58554 DST #: 3

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

Printed: 2014.12.10 @ 15:37:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

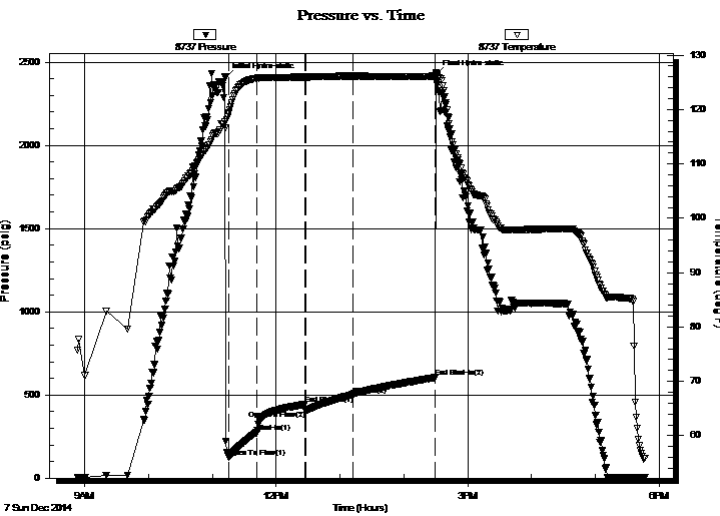
5-23-32 Finney,KS
O'Brate-Finney #1 5
Job Ticket: 58554 **DST#: 3**
Test Start: 2014.12.07 @ 08:53:15

GENERAL INFORMATION:

Formation: **St. Louis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:15:00
Time Test Ended: 17:46:15
Interval: **4754.00 ft (KB) To 4776.00 ft (KB) (TVD)**
Total Depth: 4754.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 65
Reference Elevations: 2860.00 ft (KB)
2847.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8737 Outside
Press@RunDepth: 501.00 psig @ 4771.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.12.07 End Date: 2014.12.07 Last Calib.: 2014.12.07
Start Time: 08:53:15 End Time: 17:46:15 Time On Btm: 2014.12.07 @ 11:12:00
Time Off Btm: 2014.12.07 @ 14:30:30

TEST COMMENT: IF:BOB in 1 min.
IS:BOB in 20 min.
FF:BOB in 2 min.
FS:BOB in 9 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2406.02	117.79	Initial Hydro-static
3	127.09	119.19	Open To Flow (1)
30	276.14	125.71	Shut-In(1)
75	443.96	125.97	End Shut-In(1)
76	405.53	125.95	Open To Flow (2)
120	501.00	126.10	Shut-In(2)
198	605.83	126.10	End Shut-In(2)
199	2423.48	126.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
930.00	mcgo 5% m 5% g 90% o	13.05
930.00	free oil 100% o	13.05
0.00	GIP= 2790 ft	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

5-23-32 Finney,KS

O'Brate-Finney #1 5

Job Ticket: 58554

DST#: 3

Test Start: 2014.12.07 @ 08:53:15

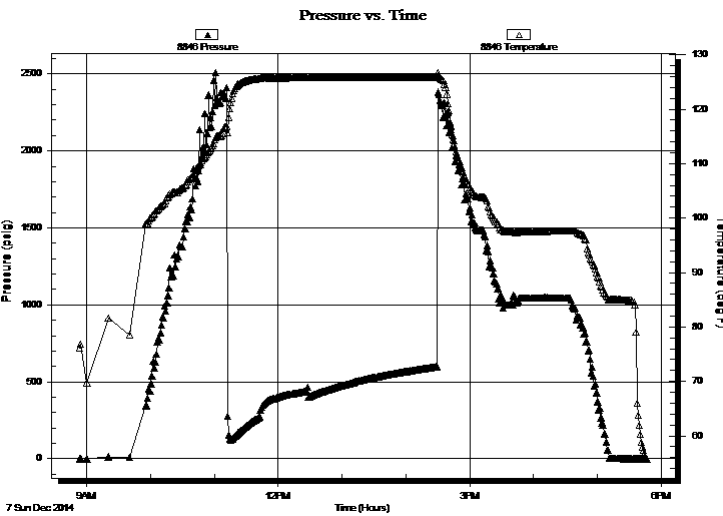
GENERAL INFORMATION:

Formation:	St. Louis		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	11:15:00		Tester: Mike Roberts
Time Test Ended:	17:46:15		Unit No: 65
Interval:	4754.00 ft (KB) To 4776.00 ft (KB) (TVD)		Reference Elevations: 2860.00 ft (KB)
Total Depth:	4754.00 ft (KB) (TVD)		2847.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Fair	KB to GR/CF: 13.00 ft

Serial #: 8846 Inside

Press@RunDepth:	psig @	4771.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2014.12.07	End Date:	2014.12.07	Last Calib.: 2014.12.07
Start Time:	08:53:15	End Time:	17:46:30	Time On Btm:
				Time Off Btm:

TEST COMMENT: IF:BOB in 1 min.
IS:BOB in 20 min.
FF:BOB in 2 min.
FS:BOB in 9 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
930.00	mcgo 5%m 5%g 90%o	13.05
930.00	free oil 100% o	13.05
0.00	GIP= 2790 ft	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

5-23-32 Finney, KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #1 5

Job Ticket: 58554

DST#: 3

ATTN: Kevin Timson

Test Start: 2014.12.07 @ 08:53:15

Tool Information

Drill Pipe:	Length: 4734.00 ft	Diameter: 3.80 inches	Volume: 66.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 66.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4754.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 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			4727.00	
Shut In Tool	5.00			4732.00	
Hydraulic tool	5.00			4737.00	
Jars	5.00			4742.00	
Safety Joint	3.00			4745.00	
Packer	5.00			4750.00	28.00 Bottom Of Top Packer
Packer	4.00			4754.00	
Stubb	1.00			4755.00	
Perforations	16.00			4771.00	
Recorder	0.00	8846	Inside	4771.00	
Recorder	0.00	8737	Outside	4771.00	
Bullnose	5.00			4776.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

5-23-32 Finney,KS

PO Box 399
Garden City KS 67846

O'Brate-Finney #1 5

Job Ticket: 58554 **DST#: 3**

ATTN: Kevin Timson

Test Start: 2014.12.07 @ 08:53:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

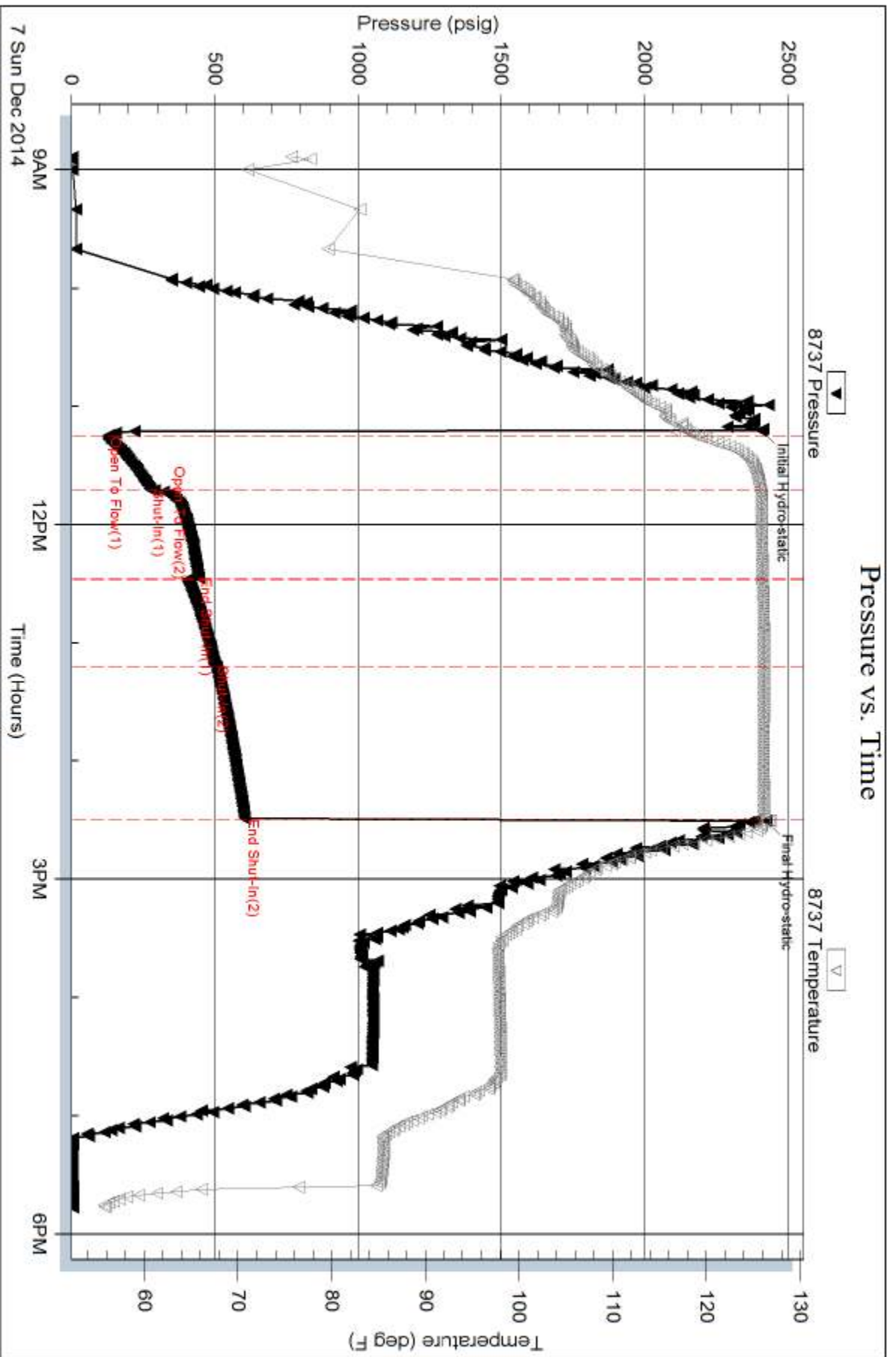
Length ft	Description	Volume bbl
930.00	mcgo 5%m 5%g 90%o	13.045
930.00	free oil 100% o	13.045
0.00	GIP= 2790 ft	0.000

Total Length: 1860.00 ft Total Volume: 26.090 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API= 29 @ 80* corrected to 31



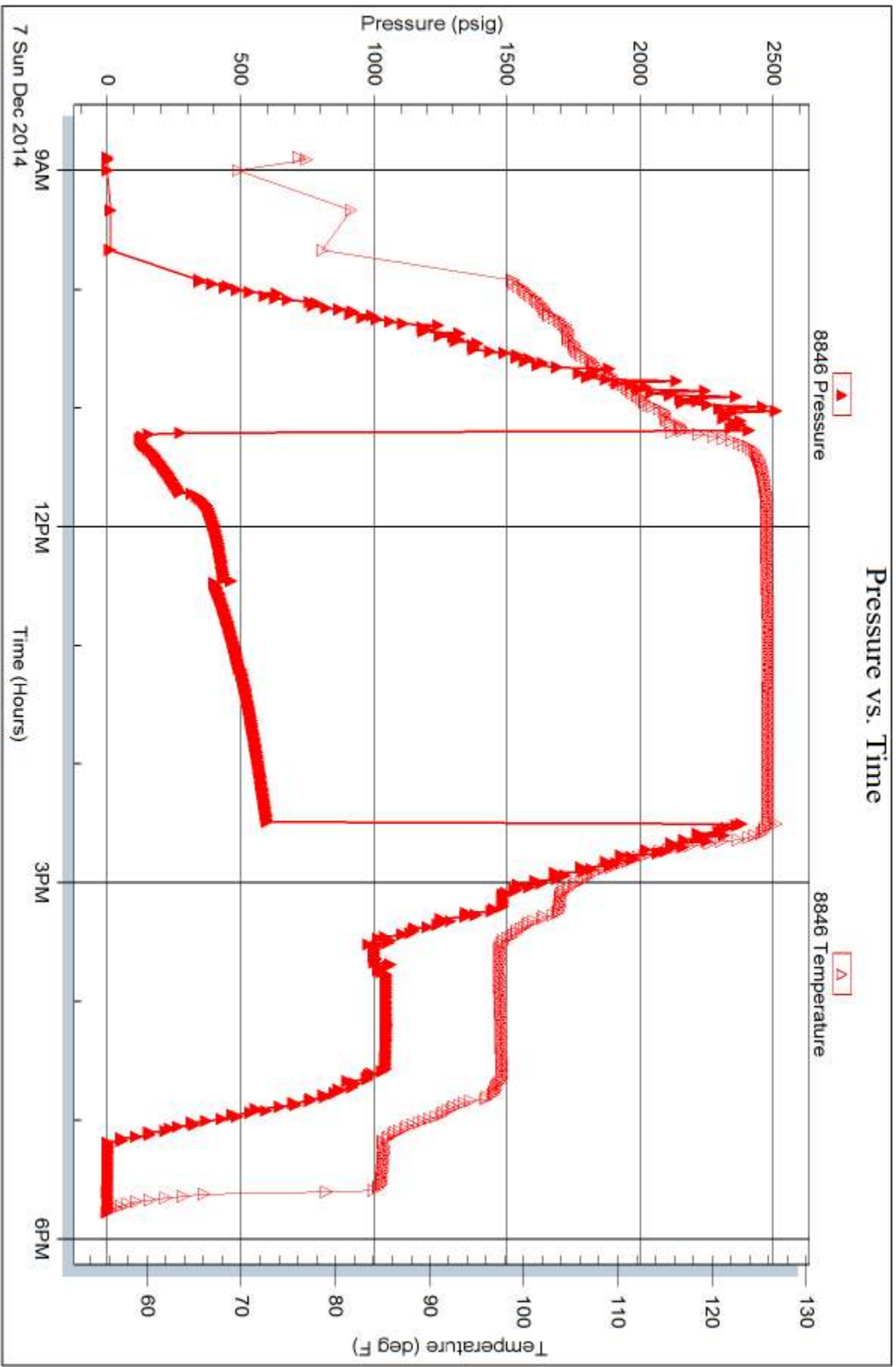
Serial #: 8846

Inside

American Warrior Inc.

O'Brate-Finney #1 5

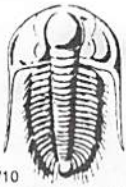
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58554

Printed: 2014.12.10 @ 15:37:38



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58552

4/10

Well Name & No. O'Brate-Finney #1-5 Test No. 1 Date 12-5-14
 Company American Warrior Inc. Elevation 2860 KB 2847 GL
 Address 3118 Cummings Rd P.O. Box 399 Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 10
 Location: Sec. 5 Twp. 23 Rge. 32 Co. Finney State KS

Interval Tested 4390-4442 Zone Tested Marmaton
 Anchor Length 52 Drill Pipe Run 4387 Mud Wt. 9.1
 Top Packer Depth 4385 Drill Collars Run Ø Vis 54
 Bottom Packer Depth 4390 Wt. Pipe Run Ø WL 9.2
 Total Depth 4442 Chlorides 2250 ppm System LCM 2
 Blow Description IF: Weak surface Blow Died in 2 Min
IS: No Return Blow
FF: No Blow
FS: Pulled Test

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total	BHT
<u>2</u>	<u>2203</u>
(A) Initial Hydrostatic	<u>33</u>
(B) First Initial Flow	<u>34</u>
(C) First Final Flow	<u>472</u>
(D) Initial Shut-In	<u>35</u>
(E) Second Initial Flow	<u>84</u>
(F) Second Final Flow	<u>2199</u>
(G) Final Shut-In	
(H) Final Hydrostatic	

Gravity — API RW — @ — °F Chlorides — ppm

Test 1250.00/- T-On Location 05:00
 Jars 250.00/- T-Started 06:53
 Safety Joint 75.00 T-Open 09:30
 Circ Sub NC T-Pulled 10:40
 Hourly Standby — T-Out 12:40
 Mileage 68RT 105.40/- Comments —
 Sampler —
 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1680.40
 Accessibility — MP/DST Disc't —
 Sub Total \$1680.40/-

Initial Open 30
 Initial Shut-In 30
 Final Flow 10
 Final Shut-In pulled

Approved By _____ Our Representative Mike Bobatz

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58553

Well Name & No. OBrade - Finney #1-5 Test No. 2 Date 12-6-14
 Company American Warrior Inc Elevation 2860 KB 2847 GL
 Address 3118 Cummings Rd P.O. Box 399 Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke 10
 Location: Sec. 5 Twp. 23 Rge. 32 Co. Finney State KS

Interval Tested 4432-4511 Zone Tested Pawnee-Cherokee
 Anchor Length 79' Drill Pipe Run 4420 Mud Wt. 9.3
 Top Packer Depth 4427 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 4432 Wt. Pipe Run 0 WL 9.6
 Total Depth 4511 Chlorides 1800 ppm System LCM 2

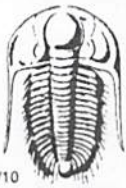
Blow Description IF: BOB 3 Min
IS: No Return Blow
FF: BOB 4 Min
FS: No Return Blow

Rec <u>651</u>	Feet of <u>geowm</u>	<u>30</u>	%gas <u>20</u>	%oil <u>20</u>	%water <u>50</u>	%mud
Rec <u>186</u>	Feet of <u>geowm</u>	<u>10</u>	%gas <u>10</u>	%oil <u>30</u>	%water <u>50</u>	%mud
Rec <u>186</u>	Feet of <u>ocgw</u>	<u>30</u>	%gas <u>10</u>	%oil <u>60</u>	%water	%mud
Rec <u>186</u>	Feet of <u>geow</u>	<u>20</u>	%gas <u>40</u>	%oil <u>40</u>	%water	%mud
Rec <u>186</u>	Feet of <u>mcw</u>		%gas	%oil <u>50</u>	%water <u>50</u>	%mud

Rec Total 1395 BHT 122 Gravity — API RW 40 @ 55 °F Chlorides 29000 ppm
 (A) Initial Hydrostatic 2232 Test 1250.00/- T-On Location 22:45 12/5
 (B) First Initial Flow 83 Jars 250.00/- T-Started 22:58
 (C) First Final Flow 280 Safety Joint 75.00/- T-Open 01:23
 (D) Initial Shut-In 1179 Circ Sub NC T-Pulled 04:23
 (E) Second Initial Flow 299 Hourly Standby T-Out 07:10
 (F) Second Final Flow 490 Mileage 68 RT 105.40/- Comments _____
 (G) Final Shut-In 749 Sampler _____
 (H) Final Hydrostatic 2200 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total 1680.40/- MP/DST Disc't _____

Approved By _____ Our Representative Mike Roberts
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58554

Well Name & No. 0 Brate - Finney #1-5 Test No. 3 Date 12-7-14
 Company American Warrior Inc Elevation 2860 KB 2847 GL
 Address 3118 Cummings Rd P.O. Box 399 Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #10
 Location: Sec. 5 Twp. 23 Rge. 32 Co. Finney State KS

Interval Tested 4754-4776 Zone Tested St. Louis
 Anchor Length 22 Drill Pipe Run 4734 Mud Wt. 9.2
 Top Packer Depth 4749 Drill Collars Run Ø Vis 91
 Bottom Packer Depth 4754 Wt. Pipe Run Ø WL 7.6
 Total Depth 4776 Chlorides 2200 ppm System LCM 2

Blow Description IF: BOB in 1 Min
IS: BOB in 20 Min
FF: BOB in 2 Min GTS Not Measurable
FS: BOB in

Rec	Feet of	%gas	%oil	%water	%mud
<u>Ø</u>	<u>GIP = 2790'</u>				
<u>930</u>	<u>930 mcgo</u>	<u>50</u>	<u>90</u>		<u>5</u>
<u>930</u>	<u>Free Oil</u>	<u>100</u>			

Rec Total 1860 BHT 128 Gravity 31 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2406</u>	<input checked="" type="checkbox"/> Test	<u>1250.00/-</u>	T-On Location	<u>08:25</u>
(B) First Initial Flow	<u>127</u>	<input checked="" type="checkbox"/> Jars	<u>250.00/-</u>	T-Started	<u>08:53</u>
(C) First Final Flow	<u>276</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75.00/-</u>	T-Open	<u>11:12</u>
(D) Initial Shut-In	<u>443</u>	<input checked="" type="checkbox"/> Circ Sub	<u>Dropped 50.00/-</u>	T-Pulled	<u>13:12</u>
(E) Second Initial Flow	<u>405</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>17:46</u>
(F) Second Final Flow	<u>501</u>	<input checked="" type="checkbox"/> Mileage	<u>68 RT \$05.40/-</u>	Comments	
(G) Final Shut-In	<u>605</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2423</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

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

Extra Packer
 Extra Recorder
 Day Standby 1d 1.25h
 Accessibility 1730.40
 Sub Total \$1680.40/-

Sub Total 41.67
 Total 1772.07
 MP/DST Disc't

Approved By _____ Our Representative Mike Rohlf

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.

O'Brate-Finney #1-5

742' FSL & 2310' FWL

Sec. 5, T23s, R32w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-Finney #1-5
742' FSL & 2310' FWL
Sec. 5, T23s, R32w
Finney County, Kansas
API # 15-055-22360-00-00

Drilling Contractor: Duke Drilling Co. Rig #10

Geologist: Kevin Timson

Spud Date: November 28, 2014

Completion Date: December 9, 2014

Elevation 2849' G.L.
2860' K.B.

Directions: From Garden City, KS, go North on Hwy 83 5 miles to Six Mile Rd. Go East a half mile to Third St. Go North one mile and East into.

Casing: 1725' 8 5/8" #24 Surface Casing
4984' 5 1/2" #15.5 Production Casing

Samples: 4200' to RTD 10' Wet & Dry

Drilling Time: 3750' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Mike Roberts"

Problems: Possible problems with test tool on shut-in pressures.

Formation Tops
O'Brate-Finney #1-5
Sec. 5, T23s, R32w
742' FSL & 2310' FWL

Anhydrite	1881' +979
Base	1980' +880
Heebner	3829' -969
Lansing	3877' -1017
Stark	4212' -1352
Bkc	4350' -1490
Marmaton	4375' -1515
Pawnee	4449' -1589
Fort Scott	4472' -1612
Cherokee	4491' -1631
Morrow	4658' -1798
Miss	4677' -1817
RTD	5000' -2140
LTD	4999' -2139

Sample Zone Descriptions

Pawnee (4449', -1589): Covered in DST #2

Ls. Tan. Sub to medium crystalline. Fair oomoldic and oolycastic porosity. Fair to good stain. Fair to good saturation. Show of free oil when broken. Good odor. 75 Unit hotwire.

St. Louis (4677', -1817): Covered in DST #3

Ls. Tan. Sub crystalline. Fair to good oomoldic and oolycastic porosity. Good stain and good saturation in porosity. Show of free oil when broken. Fair odor. 100 Unit kick.

Drill Stem Tests
Trilobite Testing
"Mike Roberts"

DST #1

Marmaton

Interval (4390' - 4442') Anchor Length 52'

IHP	-2203 #	
IFP	- 30" – WSB died in 2 min	33-34 #
ISI	- 30" – No Return	472 #
FFP	- 10" – No blow	35 #
FSIP	- Pull Tool	NA
FHP	- 2199 #	
BHT	- Not recorded	

Recovery: 2' Mud

DST #2

Pawnee to Cherokee

Interval (4432' - 4511') Anchor Length 79'

IHP	- 2232 #	
IFP	-30" - BOB in 3 min	83-280 #
ISI	-45" - No return	1179 #
FFP	- 45" - BOB in 4 min	299-490 #
FSIP	- 60" - No return	749 #
FHP	- 2200#	
BHT	- 122° F	

Recovery: 651' OCGM (20% Oil, 30% Gas)
186' GCOWM (10% Oil, 10% Gas, 30% Water)
186' OCGW (10% Oil, 30% Gas, 60% Water)
186' MCW

DST #3

St. Louis

Interval (4754' - 4776') Anchor Length 22'

IHP	- 2406 #	
IFP	- 30" - BOB in 1 min	127-276#
ISI	- 45" - BOB in 20 min	443 #
FFP	- 45" - BOB in 2 min GTS	405-501 #
FSIP	- 60" - BOB in 9 min	605 #
FHP	- 2423 #	
BHT	- 128° F	

Recovery: 930' Oil Gravity: 31
 930' MCO (90% Oil)

Structural Comparison

Formation	American Warrior, Inc. O'Brate-Finney #1-5 Sec. 5, T23s, R32w 742' FSL & 2310' FWL		Norstar Petroleum Bergkamp #1-8 Sec. 8, T23s, R32w 660' FSL & 1980' FEL		Hawkins Oil A A Dewey #1 Sec 9, T23s, R32w SW SE SW
Heebner	3829' -969	-8	3817' -961	NA	NA
Lansing	3877' -1017	-8	3865' -1009	-8	3893' -1009
Stark	4212' -1352	-4	4204' -1348	NA	NA
BKC	4350' -1490	-5	4341' -1485	NA	NA
Marmaton	4375' -1515	-8	4363' -1507	-4	4395' -1511
Pawnee	4449' -1589	-4	4441' -1585	+1	4474' -1590
Fort Scott	4472' -1612	-3	4465' -1609	+1	4497' -1613
Cherokee	4491' -1631	-5	4482' -1626	NA	NA
Morrow	4658' -1798	+24	4678' -1822	-8	4674' -1790
St. Louis	4677' -1817	+12	4685' -1829	-21	4680' -1796

Summary

The location for the O'Brate-Finney #1-5 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem tests were conducted which recovered commercial quantities of oil from the Pawnee and St. Louis Limestone. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the O'Brate-Finney #1-5 well.

Perforations

Primary:

St. Louis	(4780' – 4787')	Not Tested
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Secondary:

St. Louis	(4765' - 4671')	DST #3
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Pawnee	(4451' - 4454') & (4456' - 4458')	DST #2
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Before Abandonment

Fort Scott	(4477' - 4483')	DST #2
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Respectfully Submitted,

Kevin Timson
American Warrior, Inc.

