

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'BRATE - FLB 1-29
Doc ID	1321185

Tops

Name	Top	Datum
Anhy	1852	+996
B/Anhy	1921	+927
Heebner	3932	-1084
Lansing	3978	-1130
B/KC	4482	-1634
Marmaton	4504	-1656
Pawnee	4582	-1734
Ft.Scott	4609	-1761
Cherokee	4622'	-1774
Morrow	4774	1926
Mississippian	4794	1946

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	O'BRATE - FLB 1-29
Doc ID	1321185

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4799'to 4803		



CHARGE TO: American Warrior
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 29710

PAGE 1 OF

1. SERVICE LOCATIONS <u>Lead Og KS</u>	WELL/PROJECT NO. <u>1-29</u>	LEASE <u>Obrite FLB</u>	COUNTY/PARISH <u>Finney</u>	STATE <u>KS</u>	CITY <u>Piercesville</u>	DATE <u>22 SEP 16</u>	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>DUKE</u>	RIG NAME/NO. <u>5</u>	SHIPPED <u>Y</u>	DELIVERED TO <u>location</u>	ORDER NO.		
3. WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>cement deep surface pipe</u>	WELL PERMIT NO.	WELL LOCATION <u>29-25-31</u>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	100	mi			5.00	500.00
576D		1			Pump Charge	1	ea			1250.00	1250.00
330		1			SMD cement	650	sk			15.75	10237.50
276		1			Flocele	150	lb			2.25	337.50
290		1			D-AIR	4	gal			42.00	168.00
410		1			Top Plug	8 3/8	in	1	ea	120.00	120.00
412		1			Baffle Plate	8 3/8	in	1	ea	110.00	110.00
581		1			service charge	650	sk			1.50	975.00
583		1			Drayage	64682	lb	3234	TM	0.75	2425.56
221		1			KCH liquid	2	gal			25.00	50.00
281		1			mud flush	500	gal			1.25	625.00

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

X

DATE SIGNED: _____ TIME SIGNED: _____
 A.M.
 P.M.
1415

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	16798.56
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	17685.81

Finney Co
TAX 716590 887.25

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: [Signature] APPROVAL: _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 22 SEP 16 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 1-29 LEASE OBrate FLB JOB TYPE cement deep surface TICKET NO. 29710

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								650 sk SMD cement w/ 1/4" floccle 8 5/8" x 23" casing 40 jts TD: 1653' 1634 total pipe shoe jts 40.34'
	0830							on loc TRK 114
	0950							start 8 5/8" x 23" casing in well
	1140							circulate well
	1200	5	12				200	Pump 50 gal mud flush
		5	20				200	Pump 20 bbl KCL flush
	1210	5 3/4	67				200	MIX SMD cement @ 11.8 ppg 150 sk @ 12.5 ppg 300 sk @ 13.5 ppg 100 sk @ 14.5 ppg 100 sk
		5 3/4	259				200	650 sk TOTAL
	1310							shot in casing wash out Pump Line Release plug
	1315	6 1/4					200	Displace plug
	1330		900 102				900	cement to surface Land plug shot in casing Release pressure to truck wash truck Rack up job complete
	1415							



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

TICKET CONTINUATION

TICKET No. 29717

CUSTOMER *American Warrior* WELL *OBrate FLW 1-29* DATE *1 Oct 16* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
325		1				STANDARD cement (for EA-2)	200	sk			12.25	2450.00
284		1				calseal	1000	lb	10	sk	30.00	300.00
283		1				salt	1000	lb			0.20	200.00
285		1				CFR-1	3/4	8%	100	lb	4.50	450.00
276		1				Flocele	50	lb			2.25	112.50
281		1				mudflush	500	gal			1.25	625.00
221		1				KCL liquid	2	gal			25.00	50.00
270		1				D-Air	2	gal			42.00	84.00
581		1				SERVICE CHARGE					1.50	300.00
583		1				MILEAGE CHARGE	TOTAL WEIGHT 21000	LOADED MILES 100	TON MILES 1050		0.75	787.50

CONTINUATION TOTAL

JOB LOG

SWIFT Services, Inc.

DATE 7 OCT 16 PAGE NO. 1

CUSTOMER American Warrior WELL NO. 179 LEASE 0 BRATE FLN JOB TYPE cement long string TICKET NO. 29717

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								200sk EA-2 cement w/ 1/4" floccula 5 1/2" x 5.5" casing 119jts 5024' TD = 5050' shoejt 42.12' Centralize 1, 2, 4, 5, 6, 7, 9, 11, 13, 15 Basket 2
	1145							on loc TRK 114
	1156							start 5 1/2" x 5.5" casing in well
	1425							Drop ball - circulate
								Plug RH - MH
	1505	3	12				200	Pump 500gal mud flush
		3	20				200	Pump 20 bbl KCL flush
			7					Plug RH - MH 30sk 20sk
	1520	4	41				200	Mix EA-2 cement 150sk @ 15.3ppg
								Drop latch down plug { 250sk TOTAL }
								wash out Pump & Line
	1540	6					200	Displace plug
		6	98				100	
		6	112				750	
	1615	6	119				1500	Land plug
								Release pressure to truck - dried up
	1620							Wash truck Rack up
	1655							job complete Thanks Flint, Blaine, & Ross



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 399
Garden City KS 67846

ATTN: Luke Thompson

O'Brate FLB #1-29

29-25s-31w Finney,KS

Start Date: 2016.09.28 @ 14:23:15

End Date: 2016.09.28 @ 23:18:15

Job Ticket #: 65614 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.09.30 @ 09:40:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.

29-25s-31w Finney, KS

P.O. Box 399
Garden City KS 67846

O'Brate FLB #1-29

Job Ticket: 65614

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.09.28 @ 14:23:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:27:15

Time Test Ended: 23:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4574.00 ft (KB) To 4605.00 ft (KB) (TVD)

Reference Elevations: 2848.00 ft (KB)

Total Depth: 4605.00 ft (KB) (TVD)

2838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press@RunDepth: 105.92 psig @ 4575.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.28

End Date:

2016.09.28

Last Calib.:

2016.09.28

Start Time: 14:23:15

End Time:

23:18:15

Time On Btm:

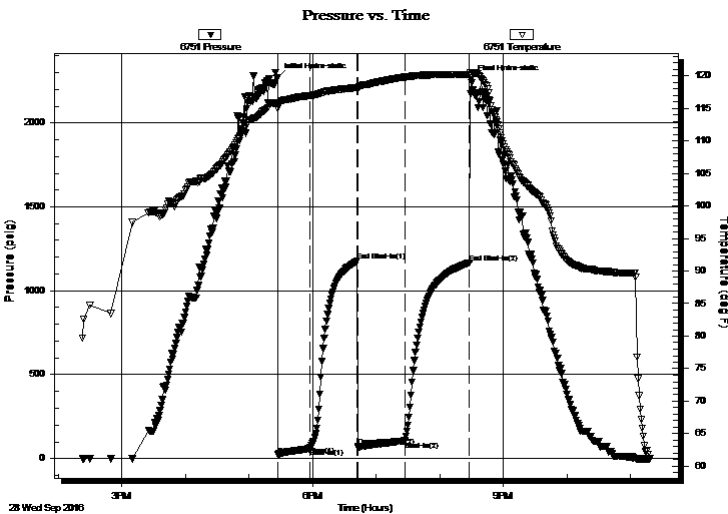
2016.09.28 @ 17:27:00

Time Off Btm:

2016.09.28 @ 20:29:45

TEST COMMENT: IF:BOB in 28 min.
IS:No return blow
FF:Built to 8" blow
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.82	115.81	Initial Hydro-static
1	22.26	114.94	Open To Flow (1)
31	58.18	116.92	Shut-In(1)
76	1176.10	118.17	End Shut-In(1)
76	71.69	117.88	Open To Flow (2)
120	105.92	119.79	Shut-In(2)
182	1167.02	120.21	End Shut-In(2)
183	2260.13	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 248	0.00
62.00	gcom 2%g 3%o 95%m	0.30
124.00	gcom 5% g 5%o 95%m	0.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

29-25s-31w Finney,KS

P.O. Box 399
Garden City KS 67846

O'Brate FLB #1-29

Job Ticket: 65614

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.09.28 @ 14:23:15

Tool Information

Drill Pipe:	Length: 4264.00 ft	Diameter: 3.80 inches	Volume: 59.81 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:	20000.00 lb
Drill Collar:	Length: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	100000.0 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	4574.00 ft			Final	91000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	59.00 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			4547.00	
Shut In Tool	5.00			4552.00	
Hydraulic tool	5.00			4557.00	
Jars	5.00			4562.00	
Safety Joint	3.00			4565.00	
Packer	5.00			4570.00	28.00 Bottom Of Top Packer
Packer	4.00			4574.00	
Stubb	1.00			4575.00	
Recorder	0.00	8672	Inside	4575.00	
Recorder	0.00	6751	Outside	4575.00	
Perforations	25.00			4600.00	
Bullnose	5.00			4605.00	31.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

29-25s-31w Finney, KS

P.O. Box 399
Garden City KS 67846

O'Brate FLB #1-29

Job Ticket: 65614

DST#: 1

ATTN: Luke Thompson

Test Start: 2016.09.28 @ 14:23:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.78 in³
Resistivity: 0.00 ohm.m
Salinity: 3300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP= 248	0.000
62.00	gcom 2%g 3%o 95%m	0.305
124.00	gcom 5% g 5%o 95%m	0.610

Total Length: 186.00 ft Total Volume: 0.915 bbl

Num Fluid Samples: 0

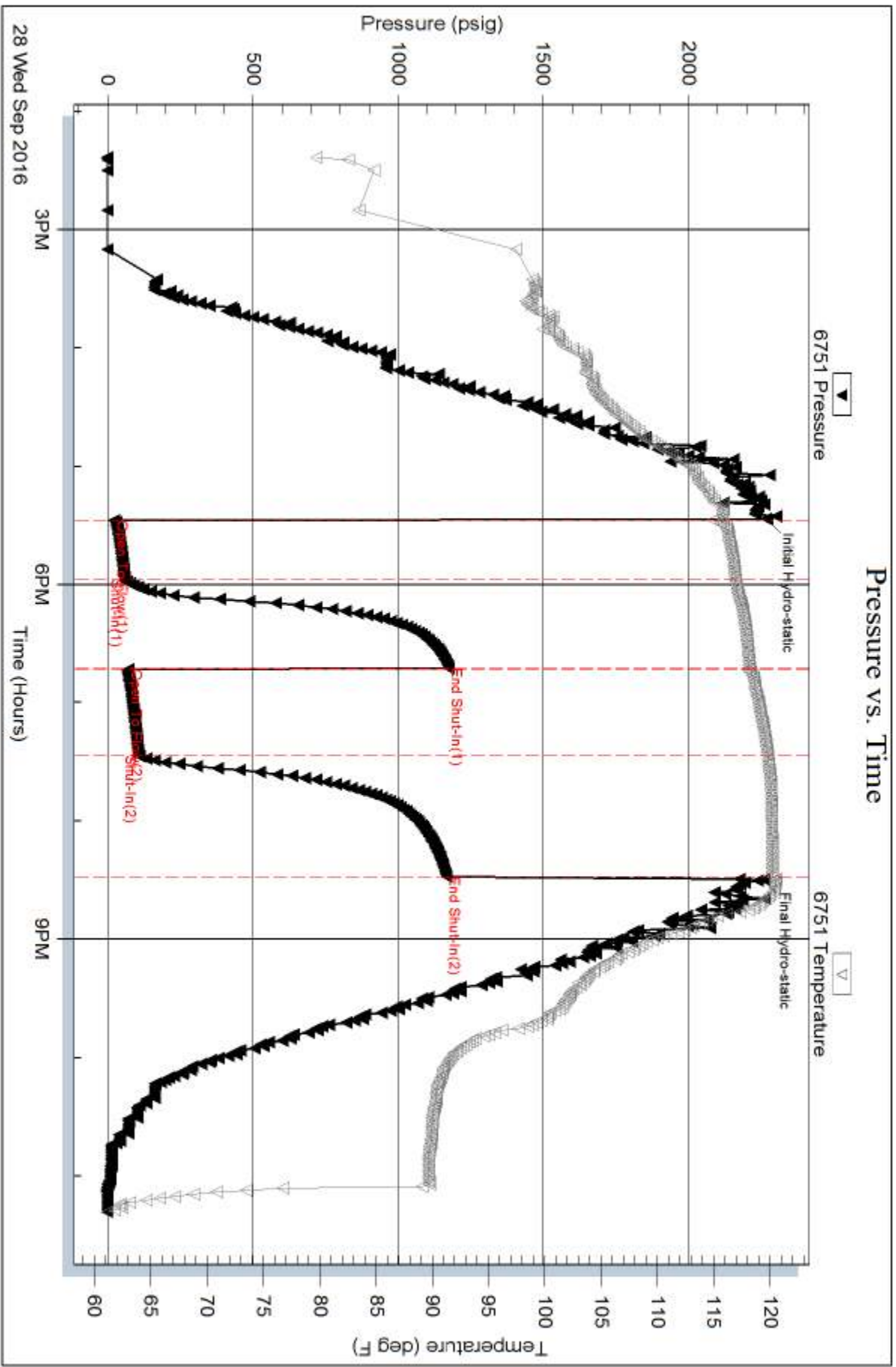
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



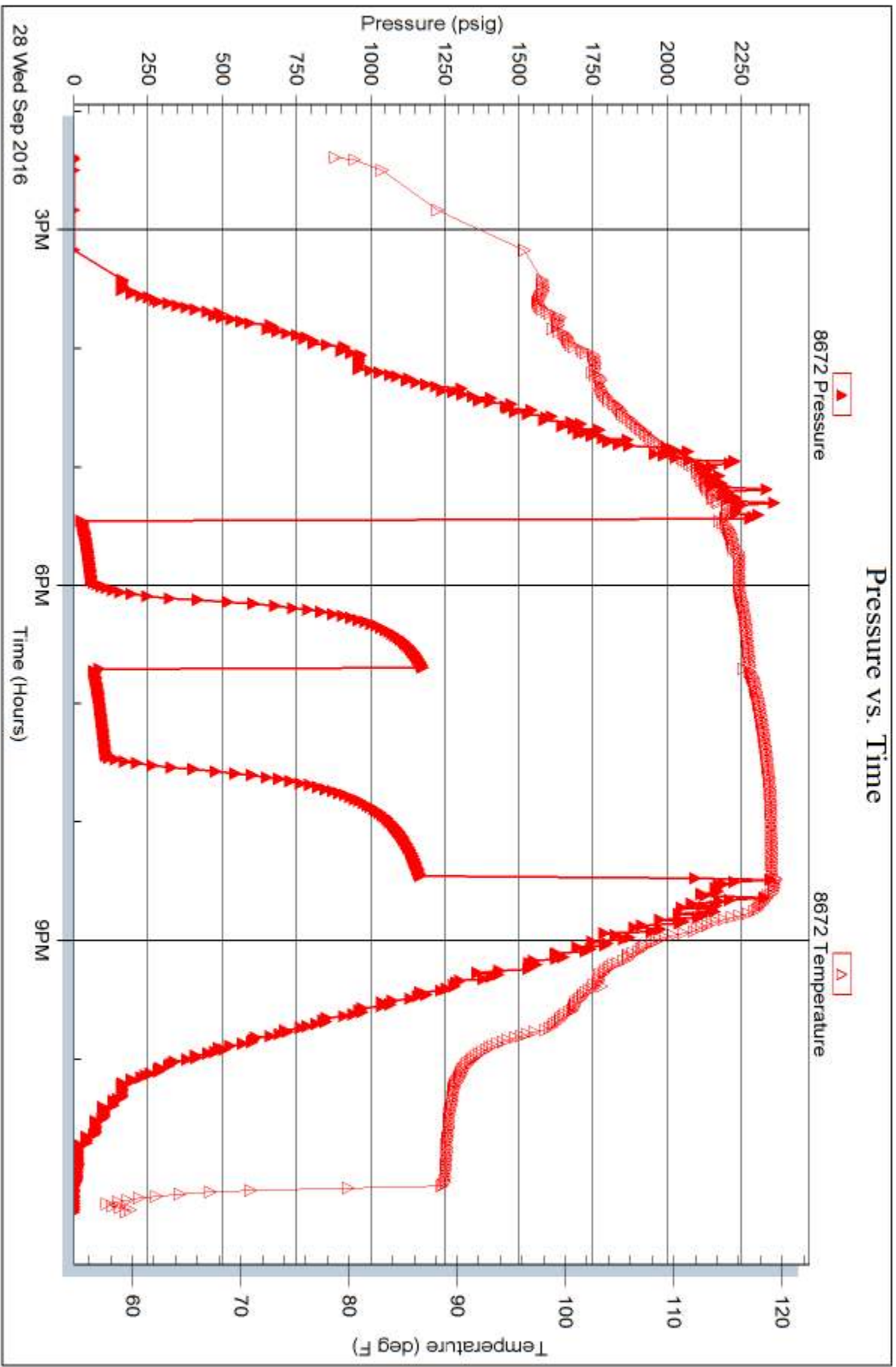
Serial #: 8672

Inside

American Warrior Inc.

O/Brate FLB #1-29

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65614

Printed: 2016.09.30 @ 09:40:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65614**

Well Name & No. O'Brate FLR # 1-29 Test No. 1 Date 9-28-16
 Company American Warrior Inc Elevation 2898 KB 2838 GL
 Address P.O. Box 399 Garden City KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke 1
 Location: Sec. 29 Twp. 25S Rge. 31W Co. Finney State KS

Interval Tested 4574-4605 Zone Tested Pawnee
 Anchor Length 31 Drill Pipe Run 4264 Mud Wt. 9.3
 Top Packer Depth 4569 Drill Collars Run 309 Vis. 48
 Bottom Packer Depth 4574 Wt. Pipe Run Ø WL 8.8
 Total Depth 4605 Chlorides 3300 ppm System LCM 3
 Blow Description IF: BOB in 28 Min.
IS: No Return Blow
FF: Built to 8" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
62	Feet of <u>GIP = 248'</u>				
<u>62</u>	Feet of <u>gcom</u>	<u>2</u>	<u>3</u>	<u>95</u>	
<u>124</u>	Feet of <u>gcom</u>	<u>5</u>	<u>5</u>	<u>90</u>	
	Feet of				
	Feet of				

Rec Total 186 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2270</u>	<input checked="" type="checkbox"/> Test <u>1150</u> \$1250.00	T-On Location <u>12:30</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00</u>	T-Started <u>14:23</u>
(C) First Final Flow <u>58</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00</u>	T-Open <u>17:27</u>
(D) Initial Shut-In <u>1176</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>20:20</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>105</u>	<input checked="" type="checkbox"/> Mileage <u>110RT = \$82.50/-</u>	Comments <u>Loaded 9-29-16</u>
(G) Final Shut-In <u>1167</u>	<input type="checkbox"/> Sampler <u>X2 +82.50</u>	<u>19:15</u>
(H) Final Hydrostatic <u>2260</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Accessibility <u>1640</u>	Total <u>1640.00</u>
Final Flow <u>45</u>	Sub Total <u>\$1657.50/-</u>	MP/DST Disc't
Final Shut-In <u>60</u>		

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.

Geological Report

American Warrior, Inc.

O'Brate-FLB #1-29

1626' FNL & 1890' FWL

Sec 29, T25s, R31w

Finney County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
O'Brate-FLB #1-29
1626' FNL & 1890' FWL
Sec. 29, T25s, R31w
Finney County, Kansas
API # 15-055-22435-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: September 21, 2016

Completion Date: October 2, 2016

Elevation 2848' G.L.
2837' K.B.

Directions: From the intersection of Highway 50 and Main St. in Pierceville, KS, go 3.8 miles south to Parallel Rd, go West 3 miles to trail, now go North 1.5 miles to white gate, go through gate and West 0.7 miles, go North 1000' to location.

Casing: 1634' 8 5/8" #23 Surface Casing
5024' 5 1/2" #15.5 Production Casing

Samples: 3900' to RTD 10' Wet & Dry

Drilling Time: 3800' to RTD

Electric Logs: Pioneer Energy Services "J. Long"
Full Sweep

Drillstem Tests: One-Trilobite Testing "Mike Roberts"

Problems: Pulled tight on all trips

Formation Tops

O'Brate-FLB #1-29

Sec. 29, T25s, R31w

1626' FNL & 1890' FWL

Anhydrite	1852' +996
Base	1921' +927
Heebner	3932' -1084
Lansing	3978' -1130
Stark	4360' -1512
Bkc	4482' -1634
Marmaton	4504' -1656
Pawnee	4582' -1734
Fort Scott	4609' -1761
Cherokee	4622' -1774
Morrow	4774' -1926
Miss	4794' -1946
RTD	5050' -2202
LTD	5048' -2200

Sample Zone Descriptions

Pawnee (4590', -1742): **Covered in DST #1**

Limestone, cream, sub-crystalline, chalky, oolitic packstone, poor, oolitic porosity, strong odor, slight show of free oil when broke. Gas 45 units hotwire.

St. Gen (4800', -1952): **Not Covered in DST**

Limestone, cream, fine oolitic packstone, fair odor, poor-fair oolitic porosity, fair show of free oil in porosity, slow stream cut. Gas 90 units hotwire.

Drill Stem Tests

Trilobite Testing

"Mike Roberts"

DST #1

Pawnee

Interval (4574' – 4605') Anchor Length 31'

IHP - 2271 #

IFP - 30" – BOB in 28 min

22-58 #

ISI - 45" – No return

1176 #

FFP - 45" – Built to 8"

72-106 #

FSIP - 60" – No return

1167 #

FHP - 2260 #

BHT - 120° F

Recovery: 248' GIP

62' GCOM

3% O

124' GCOM

5% O

Respectfully Submitted,

Lukas Thompson
American Warrior, Inc.