



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1161106  
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: \_\_\_\_\_



1161106

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](mailto: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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Joseph 1-16
Doc ID	1161106

All Electric Logs Run

Induction
Porosity
micro
sonic

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Joseph 1-16
Doc ID	1161106

Tops

Name	Top	Datum
Anhy	1762'	+712
B/Anhy	1804'	+670
Heebner	3836'	-1362
Lansing	3877'	-1403
Stark	4135'	-1661
B/KC	4204'	-1730
Ft.Scott	4390'	-1916
Cherokee	4416'	-1942
Mississippian	4483'	-2009





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

TICKET No 24449

PAGE 1 OF 2

SERVICE LOCATIONS 1. Hays, KS WELL/PROJECT NO. 1-16 LEASE Joseph COUNTY/PARISH Ness STATE KS CITY DATE 7-7-13 OWNER  
 2. Ness Longs TICKET TYPE SERVICE CONTRACTOR Duke RIG NAME/NO. 5 SHIPPED VIA CT DELIVERED TO Location ORDER NO.  
 3. WELL TYPE Oil WELL CATEGORY Develop JOB PURPOSE 5 1/2 Long string WELL PERMIT NO. WELL LOCATION Sec 16, Twp 19s, R 25w.  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE # 112	20	mi			6 <sup>00</sup>	120 <sup>00</sup>
578		1			Pump Charge Longs Spring	1	ea			1500 <sup>00</sup>	1500 <sup>00</sup>
221		1			Liquid KCL	2	gal			25 <sup>00</sup>	50 <sup>00</sup>
281		1			Mud Flush	500	gal			1 <sup>25</sup>	625 <sup>00</sup>
290		1			D-Air	2	gal			42 <sup>00</sup>	84 <sup>00</sup>
402		1			Centralizers	9	ea	5 1/2		70 <sup>00</sup>	630 <sup>00</sup>
403		1			Cement Basket	2	ea			285 <sup>00</sup>	570 <sup>00</sup>
404		1			Port collar 1739'	1	ea			2650 <sup>00</sup>	2650 <sup>00</sup>
406		1			Latch Down Plug + Baffle	1	ea			275 <sup>00</sup>	275 <sup>00</sup>
407		1			Insert float shoe w/ auto fill	1	ea			375 <sup>00</sup>	375 <sup>00</sup>
419		1			Rotating Head Rental	1	ea			200 <sup>00</sup>	200 <sup>00</sup>

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 *Kenneth M. [Signature]*  
 DATE SIGNED 7-7-13 TIME SIGNED 1331  A.M.  P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	P1 PAGE TOTAL	7079 <sup>00</sup>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P2	4578 <sup>75</sup>
WE UNDERSTOOD AND MET YOUR NEEDS?				Subtotal	11,657 <sup>75</sup>
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Tax 17.55% 16.15%	580 <sup>42</sup>
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	12,238 <sup>17</sup>
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR *[Signature]* APPROVAL *[Signature]* Thank You!



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

TICKET CONTINUATION

TICKET No. 24449

CUSTOMER **AWI** WELL **Joseph 1-16** DATE **7-7-13** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M		
325		2				Standard Cement EA-2	175	sk	14 <sup>00</sup>	2450 <sup>00</sup>
276		2				Fluore	50	lb	21 <sup>00</sup>	100 <sup>00</sup>
283		2				Salt	900	lb	20	1800 <sup>00</sup>
284		2				Cal seal	8	sk	35 <sup>00</sup>	280 <sup>00</sup>
292		2				Helad 322	125	lb	7 <sup>75</sup>	968 <sup>75</sup>
581		2				SERVICE CHARGE				
							CUBIC FEET	175	2 <sup>00</sup>	350 <sup>00</sup>
582		2				MILEAGE CHARGE	TOTAL WEIGHT	18325	LOADED MILES	20
							TON MILES	m.m		250 <sup>00</sup>

CONTINUATION TOTAL 4578<sup>75</sup>

JOB LOG

SWIFT Services, Inc.

DATE 7-7-13 PAGE NO.

CUSTOMER **AWI** WELL NO. **1-16** LEASE **Joseph** JOB TYPE **5 1/2 long string** TICKET NO. **24449**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							on location LDDP
								TO 4600 SJ 18.26
								TP 4583 Insert 4565
								PL top 68 1739' 5 1/2 x 15.5"
								Centralizers 1, 3, 5, 7, 9, 11, 13, 15, 67
								Baskets 6, 68
	1615							Start casing
								Prop Ball Break Circulation Rotate
	1830		7/5					Plug AH. 30 sks, MH 20 sks
	1845	5	12				300	Start Mud Flush
		5	20				300	start KCL Flush
	1855	5	31				200	Start cement
	1908							Drop Plug wash out Pump + Lines
	1910	6.5					400	Start displacement
	1930		108.6				500/1500	land plug
	1933							Release Dry
	2000							Job Complete Thank You Dush, Brian, John





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

TICKET  
 No 24518

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness City KS  
 WELL/PROJECT NO. 1-16 LEASE Joseph COUNTY/PARISH Ness STATE KS CITY Ness City DATE 25 Jul 13 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR H-D RIG NAME/NO. 7 SHIPPED CT DELIVERED TO location ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement port collar WELL PERMIT NO. WELL LOCATION 9-W 4-5 - W into  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	15		mi		6.00	90.00
576D		1			Pump Charge	1		ea		1500.00	1500.00
330		1			SMD cement	135		sk		17.00	2295.00
276		1			Fluore	40		lb		2.00	80.00
290		1			D-AIR	2		gal		42.00	84.00
104		1			Port Collar Rental	1		en		250.00	250.00
582		1			Drayage (min)	1		ea		250.00	250.00
581		1			Service Charge	185		sk		2.00	370.00

**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.  
10/30

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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				4919.00
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
				5085.00

1755  
 TAX 6.15% 166.60

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

SWIFT OPERATOR ABGwell APPROVAL

Thank You!

## JOB LOG

SWIFT Services, Inc.

DATE 25 Jul 13

PAGE NO.

CHART NO.	TIME	CUSTOMER	WELL NO.	LEASE	LEASER	JOB TYPE	TICKET NO.	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
								T	C	TUBING	CASING	
		Arroyo	1-16	Joseph		cement port collar	24518					
						185 sk. SMD w/ # Flocele						
						2 3/4 x 5 1/2 Port Collar - 1739'						
	0830					on loc TRK 114						
	0910				1000	test to 1000 psi - held						
						open port collar						
	0915				400	inj rates						
	0918				400	mix SMD cement @ 11.2 ppg						
					400	fluid to surface						
	0935				450	— cement to surface						
	0940				450	Displace w/ H <sub>2</sub> O						
						close port collar						
	0942				1000	test to 1000 - held						
	0952					Reverse hole clean						
						2 cement plugs						
	1000					wash truck						
						Break up						
	1020					job complete						
						flunks						
						DALE ISAAC, E Blaine						







## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

**Joseph #1-16**

**S16-19s-25w Ness, KS**

Start Date: 2013.07.05 @ 17:57:00

End Date: 2013.07.06 @ 02:08:09

Job Ticket #: 51775                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.09 @ 11:36:36



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**S16-19s-25w Ness, KS**  
**Joseph #1-16**  
 Job Ticket: 51775      **DST#: 1**  
 Test Start: 2013.07.05 @ 17:57:00

## GENERAL INFORMATION:

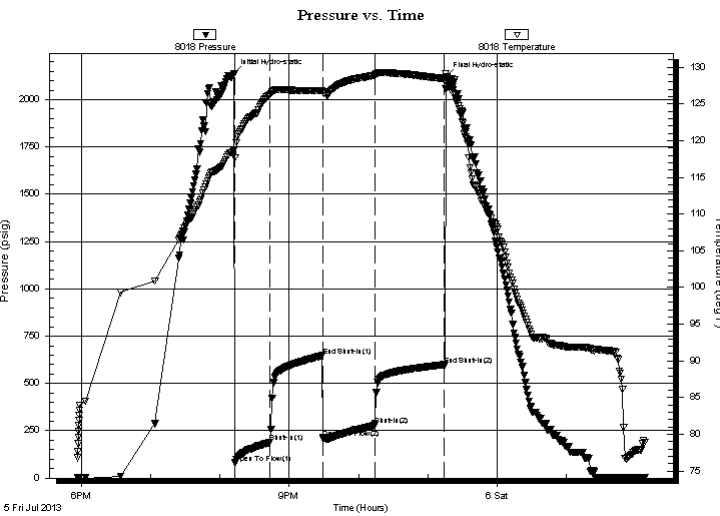
Formation: **Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:13:20  
 Time Test Ended: 02:08:09  
 Interval: **4360.00 ft (KB) To 4435.00 ft (KB) (TVD)**  
 Total Depth: 4435.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chuck Smith  
 Unit No: 62  
 Reference Elevations: 2474.00 ft (KB)  
 2463.00 ft (CF)  
 KB to GR/CF: 11.00 ft

## Serial #: 8018

Inside

Press @ Run Depth: 279.01 psig @ 4363.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.07.05 End Date: 2013.07.06 Last Calib.: 2013.07.06  
 Start Time: 17:57:02 End Time: 02:08:10 Time On Btm: 2013.07.05 @ 20:12:10  
 Time Off Btm: 2013.07.05 @ 23:15:50

TEST COMMENT: B.O.B. @ 2 min.  
 B.O.B. @ 4 1/2 min.  
 B.O.B. @ 5 min. GTS @ 25 min. gas does burn. Not enough press. to gauge gas.  
 B.O.B. @ 5 1/2 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.66	118.60	Initial Hydro-static
2	80.36	117.70	Open To Flow (1)
32	190.33	126.25	Shut-In(1)
77	647.10	126.81	End Shut-In(1)
77	210.86	126.59	Open To Flow (2)
122	279.01	128.91	Shut-In(2)
182	599.34	128.45	End Shut-In(2)
184	2120.73	128.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3397 Feet GIP	0.00
125.00	GMCO 40g 20m 40o	0.61
497.00	GMCO 50g 10m 40o	5.84
92.00	GO 60g 40o	1.29

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**S16-19s-25w Ness, KS**  
**Joseph #1-16**  
Job Ticket: 51775  
Test Start: 2013.07.05 @ 17:57:00

**DST#: 1**

## Tool Information

Drill Pipe:	Length: 4111.00 ft	Diameter: 3.80 inches	Volume: 57.67 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 2000.00 lb
Drill Collar:	Length: 249.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.50 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4360.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	102.50 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			4333.50	
Shut In Tool	5.00			4338.50	
Hydraulic tool	5.00			4343.50	
Jars	5.00			4348.50	
Safety Joint	2.50			4351.00	
Packer	5.00			4356.00	27.50 Bottom Of Top Packer
Packer	4.00			4360.00	
Stubb	1.00			4361.00	
Perforations	2.00			4363.00	
Recorder	0.00	8018	Inside	4363.00	
Recorder	0.00	6751	Outside	4363.00	
Perforations	5.00			4368.00	
Change Over Sub	1.00			4369.00	
Drill Pipe	62.00			4431.00	
Change Over Sub	1.00			4432.00	
Bullnose	3.00			4435.00	75.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>102.50</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**S16-19s-25w Ness, KS**

PO Box 399  
Garden City, KS 67846

**Joseph #1-16**

Job Ticket: 51775

**DST#: 1**

ATTN: Kevin Timson

Test Start: 2013.07.05 @ 17:57:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	3397 Feet GIP	0.000
125.00	GMCO 40g 20m 40o	0.615
497.00	GMCO 50g 10m 40o	5.842
92.00	GO 60g 40o	1.291

Total Length: 714.00 ft      Total Volume: 7.748 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

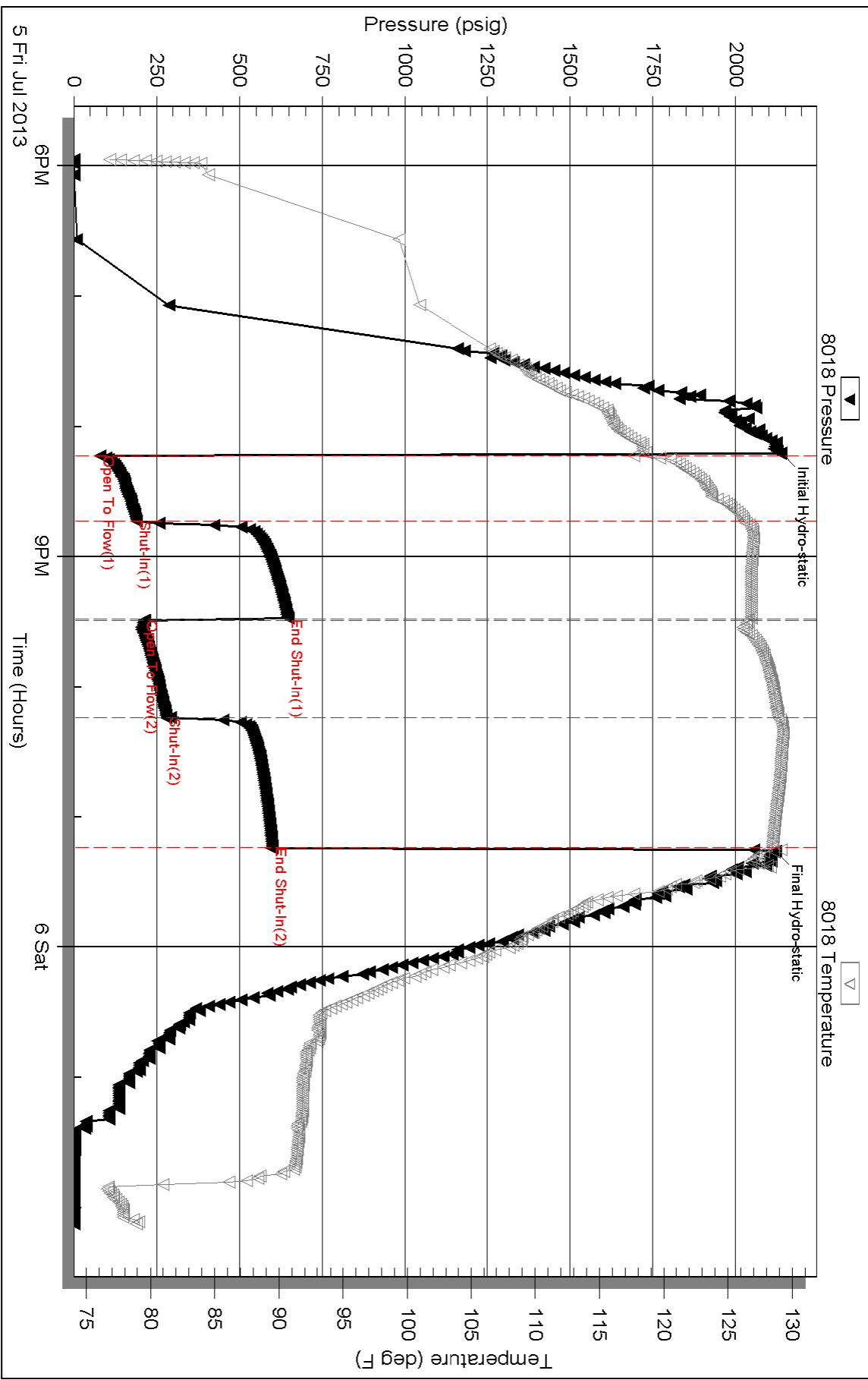
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 45 @ 80 Degrees F =43.

# Pressure vs. Time

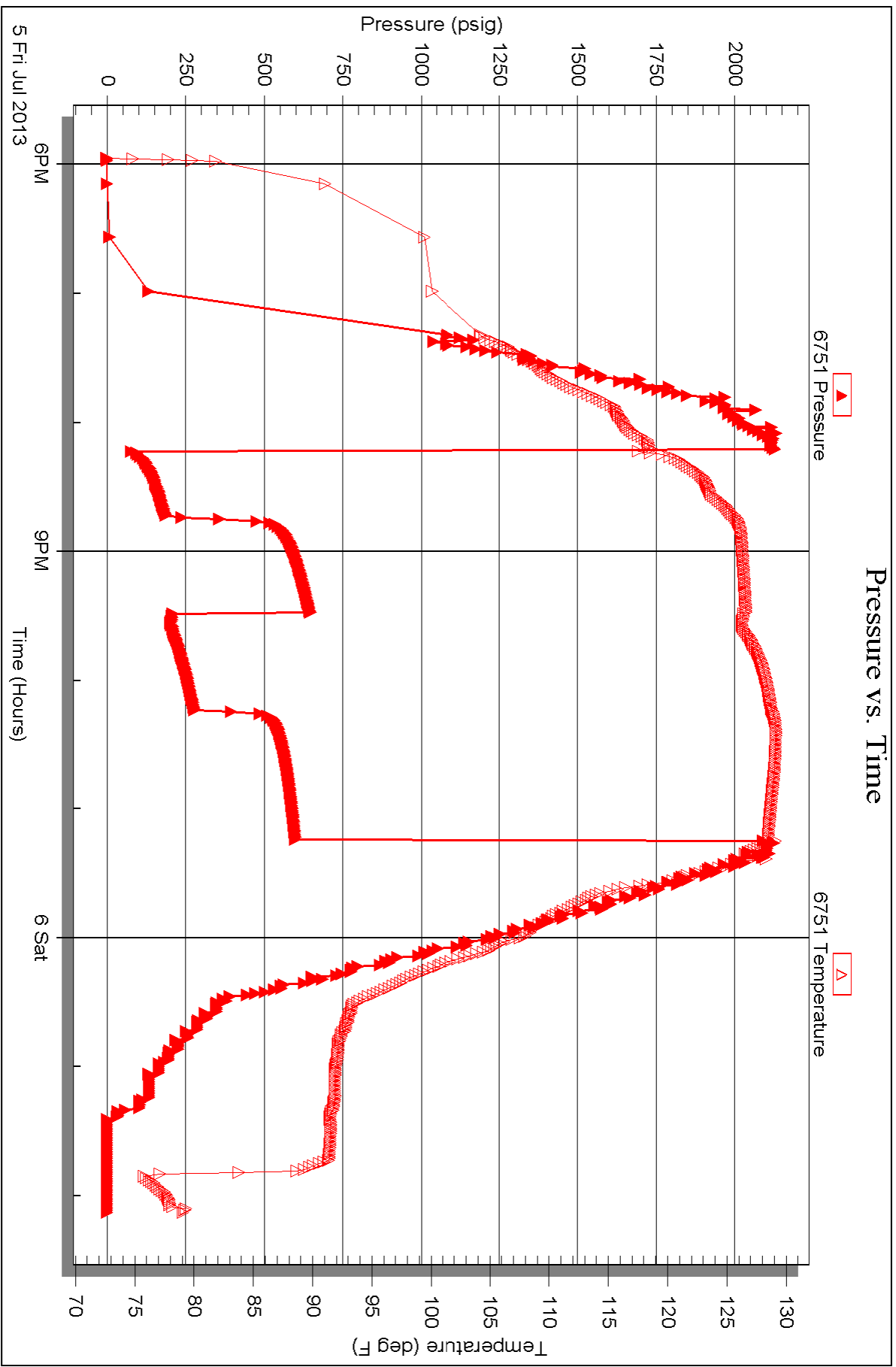


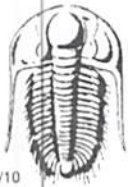
Serial #: 6751

Outside American Warrior Inc.

Joseph #1-16

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51775

4/10

Well Name & No.	Joseph #1-16		Test No.	1	Date	7-5-13
Company	American Warrior Inc		Elevation	2474	KB	2463 GL
Address	POB 399 Garden City, KS 67846					
Co. Rep / Geo.	Kevin Timson		Rig	Duke #5		
Location: Sec.	16	Twp.	19	Rge.	25	Co. Ness State KS

Interval Tested	4360 - 4435	Zone Tested	Ft. Scott			
Anchor Length	75	Drill Pipe Run	4111	Mud Wt.	9.2	
Top Packer Depth	4356	Drill Collars Run	249	Vis	5.5	
Bottom Packer Depth	4360	Wt. Pipe Run	-	WL	6.4	
Total Depth	4435	Chlorides	3000	ppm System	LCM 1	

Blow Description

B.O.B. @ 2 min.

B.O.B. @ 4 1/2 min.

B.O.B. @ 5 min.

B.O.B. @ 5 1/2 min.

Rec	Feet of	%gas	%oil	%water	%mud
92	GO	60	40		
497	GMCO	50	40		10
125	GMCO	40	40		20
	3397' GIP				
	GIR				

Rec Total 714 BHT 129 Gravity 43 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic	2139	<input checked="" type="checkbox"/> Test	1250	T-On Location	17:30
(B) First Initial Flow	80	<input checked="" type="checkbox"/> Jars	250	T-Started	17:57
(C) First Final Flow	190	<input checked="" type="checkbox"/> Safety Joint	75	T-Open	20:13
(D) Initial Shut-In	647	<input checked="" type="checkbox"/> Circ Sub		T-Pulled	23:14
(E) Second Initial Flow	211	<input type="checkbox"/> Hourly Standby		T-Out	2:09
(F) Second Final Flow	279	<input checked="" type="checkbox"/> Mileage	106RT 164.30	Comments	
(G) Final Shut-In	599	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	2121	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	30	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	45	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	45	<input type="checkbox"/> Extra Recorder		Sub Total	0
Final Shut-In	60	<input type="checkbox"/> Day Standby		Total	1739.30
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	1739.30		

Approved By \_\_\_\_\_ Our Representative Chuck Amiel

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.  
**Joseph #1-16**  
689' FSL & 1489' FEL  
Sec. 16 T19s R25w  
Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Joseph #1-16  
689' FSL & 1489' FEL  
Sec. 16 T19s R25w  
Ness County, Kansas  
API # 15-135-25628-0000

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson, Jason Alm

Spud Date: June 30, 2013

Completion Date: July 7, 2013

Elevation: 2463' Ground Level  
2474' Kelly Bushing

Directions: Laird KS, South 4 mi. West 1.5 mi. by old tank  
batteries.

Casing: 240' 8 5/8" surface casing  
4599' 5 1/2" production casing

Samples: 10' wet and dry, 3800' to RTD

Drilling Time: 3700' to RTD

Electric Logs: Pioneer Energy Services "Dan Martin"  
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: One, Trilobite Testing, Inc. "Chuck Smith"

Problems: None

Remarks: None

## Formation Tops

<b>Formation</b>	<b>American Warrior, Inc. Joseph #1-16 Sec. 16 T19s R25w 689' FSL &amp; 1489' FEL</b>
Anhydrite	<b>1762', +712</b>
Base	<b>1804', +670</b>
Heebner	<b>3836', -1362</b>
Lansing	<b>3877', -1403</b>
Stark	<b>4135', -1661</b>
BKc	<b>4204', -1730</b>
Marmaton	<b>4239', -1765</b>
Pawnee	<b>4316', -1842</b>
Fort Scott	<b>4390', -1916</b>
Cherokee	<b>4416', -1942</b>
Mississippian	<b>4483', -2009</b>
LTD	<b>4600', -2126</b>
RTD	<b>4600', -2126</b>

## Sample Zone Descriptions

- Fort Scott** (4390', -1916): **Covered in DST #1**  
Ls – Sub-crystalline with fair vuggy porosity, slight oil stain and saturation, show of free oil, slight odor.
- Mississippian** (4483', -2009): **Not Tested**  
Dolo – Fine to medium sucrosic crystalline with fair inter-crystalline and vuggy porosity, light to good oil stain and saturation, good show of free oil, good odor, bright yellow fluorescents.

**Drill Stem Tests**  
Trilobite Testing Inc.  
"Chuck Smith"

**DST #1**

**Fort Scott**

Interval (4360' – 4435') Anchor Length 75'

IHP – 2139 #	
IFP – 30" – B.O.B. 2 min.	80-190 #
ISI – 45" – B.O.B. 4 ½ min.	647 #
FFP – 45" – B.O.B. 5 min. GTS 25 min.	211-279 #
FSI – 60" – B.O.B. 5 ½ min.	599 #
FHP – 2120 #	
BHT – 129°F	

Recovery: GTS 25 min. into FSI  
92' GCO  
497' GMCO 40% Oil  
125' GMCO 40% Oil

**Structural Comparison**

	<b>American Warrior, Inc.</b> <b>Joseph #1-16</b> <b>Sec. 16 T19s R25w</b> <b>689' FSL &amp; 1489' FEL</b>	<b>Thunderbird Petroleum</b> <b>Dinges B #2</b> <b>Sec. 16 T19s R25w</b> <b>990' FSL &amp; 990' FEL</b>		<b>Thunderbird Petroleum</b> <b>Dinges B #1</b> <b>Sec. 21 T19s R25w</b> <b>NW NE NE</b>	
<b>Formation</b>					
Anhydrite	1762', +712	1748', +711	(+1)	1760', +715	(-3)
Base	1804', +670	NA	NA	NA	NA
Heebner	3836', -1362	3821', -1362	FL	3830', -1355	(-7)
Lansing	3877', -1403	3865', -1406	(+3)	3873', -1398	(-5)
Stark	4135', -1661	NA	NA	NA	NA
BKc	4204', -1730	NA	NA	NA	NA
Marmaton	4239', -1765	4230', -1771	(+6)	4226', -1751	(-14)
Pawnee	4316', -1842	4309', -1850	(+8)	4311', -1836	(-6)
Fort Scott	4390', -1916	4386', -1927	(+11)	4383', -1908	(-8)
Cherokee	4416', -1942	4411', -1952	(+10)	4408', -1933	(-9)
Mississippian	4483', -2009	4497', -2038	(+29)	4472', -1997	(-12)



## Summary

The location for the Joseph #1-16 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Fort Scott Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Joseph #1-16 well.

## Recommended Perforations

### Primary:

<b>Mississippian:</b>	<b>(4506' – 4513')</b>	<b>Not Tested</b>
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### Secondary:

<b>Mississippian:</b>	<b>(4488' – 4496')</b>	<b>Not Tested</b>
<b>Fort Scott:</b>	<b>(4394' – 4396')</b>	<b>DST #1</b>
	<b>(4407' – 4414')</b>	

### Perf and Squeeze:

<b>If Needed:</b>	<b>(4528' – 4530')</b>	
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Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 02, 2013

Joe Smith  
American Warrior, Inc.  
3118 Cummings Rd  
PO BOX 399  
GARDEN CITY, KS 67846

Re: ACO1  
API 15-135-25628-00-00  
Joseph 1-16  
SE/4 Sec.16-19S-25W  
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Joe Smith