



KANSAS CORPORATION COMMISSION 1115216  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1115216

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Olson 2-5
Doc ID	1115216

Tops

Name	Top	Datum
Anhydrite	1379	781
Heebner	3624	-1464
Lansing	3668	-1508
Base Kansas City	3990	-1830
Pawnee	4069	-1909
Ft. Scott	4143	-1983
Cherokee	4160	-2000
Mississippian	4242	-2082
RTD	4260	-2100

# ALLIED OIL & GAS SERVICES, LLC 059191

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

*Cement Buck #5*

DATE <i>1-7-13</i>	SEC. <i>5</i>	TWP. <i>19S</i>	RANGE <i>21W</i>	CALLED OUT <i>6:00 PM</i>	ON LOCATION <i>9:00 PM</i>	JOB START <i>11:30 AM</i>	JOB FINISH <i>11:50 AM</i>
LEASE <i>Olson</i>	WELL # <i>2-5</i>	LOCATION <i>4.1 miles southwest of</i>			COUNTY <i>NESS</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <u>NEW</u>			<i>Bazine, KS</i>				

CONTRACTOR *Apptymark*  
TYPE OF JOB *Surface*  
HOLE SIZE *12 1/4* T.D. *224*  
CASING SIZE *8 5/8* DEPTH *210.71'*  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX *500* MINIMUM  
MEAS. LINE SHOE JOINT *20'*  
CEMENT LEFT IN CSG. *1.272 bbls*  
PERFS.  
DISPLACEMENT *12.83 bbls*

OWNER *American Warrior*  
CEMENT  
AMOUNT ORDERED *150 sq.*  
*Class A 37.66 21001*

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		

REMARKS:

*Pumped 5 bbls of water ahead,  
Pumped 36 bbls of cement @  
15.2 PPV.  
Displaced with 12.83 bbls of water.  
left 1.272 bbls of cement in casing  
approx. 20' of fill  
Circulated 15 bbls of cement  
to surface.*

CHARGE TO: *American Warrior*  
STREET *3118 Cummings Rd*  
CITY *Garden City* STATE *KS* ZIP *67846*

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

PRINTED NAME *John Smith*  
SIGNATURE *[Signature]*

TOTAL \_\_\_\_\_

SERVICE

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

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

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

Date 1-7-13 District Great Bend Ticket No. 055191  
 Company American Water Rig Petroleum  
 Lease Olson Well No. 2-5  
 County NEOSHO State KS.  
 Location Bazine Field Mughers M.

CEMENT DATA:  
 Spacer Type: Fresh Water  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density 8.33 PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 1/2 Type \_\_\_\_\_ Weight 21 Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type Class A  
34% C.I. 2 1/2 Excess \_\_\_\_\_  
 Amt. 150 Sks Yield 1.361 ft<sup>3</sup>/sk Density 15.2 PPG

Casing Depths: Top Surface Bottom 210.71

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Pump Trucks Used 366  
 Bulk Equip. 344

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0636 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. .1458 Lin. ft./Bbl. 6.8599  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. .0735 Lin. ft./Bbl. 13.6037  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE [Signature]

CEMENTER Petrick Nelson

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
9:00 PM						Arrive on location
9:45 PM						Log up
9:15 PM						Start on casing
11:30 AM	70		5 bbls	3		Pumped spacer (water)
11:33 AM	70		3 bbls	3		Pumped cement @ 15.2 PPG
11:45 PM	75		14.23 bbls	3		Pumped displacement (water)
11:49 PM	75					Spaced 1.276 bbls of cement in casing - 20' of fill
11:55 PM						Log down
12:15 PM						Leave location
						15 bbls of cement back to surface



Services, Inc.

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

TICKET No 29743

PAGE 1 OF 2

SERVICE LOCATIONS 1. Ness City KS	WELL/PROJECT NO. 2-5	LEASE Olson	COUNTY/PARISH Olson	STATE KS	CITY Bazine	DATE 1-14-13	OWNER Squire
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Petromark	RIG NAME/NO. # 1	SHIPPED VIA ACT	DELIVERED TO Location	ORDER NO.	WELL LOCATION Bazine KSA35, 1E, 16, N25E, W
3.	WELL TYPE 01	WELL CATEGORY Development	JOB PURPOSE General SX Logging		WELL PERMIT NO.		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					TR # 114			25	m		6.00	150.00
578					Pump Charge - Logging	1	job				150.00	150.00
402					Centralizer	5 1/2	in	5	ea		70.00	350.00
403					Cement Basket	5 1/2	in	2	ea		250.00	500.00
406					Latch Down Plug + Baffle	5 1/2	in	1	ea		250.00	250.00
407					Insert Flat Shoe w/ Auto Fill	5 1/2	in	1	ea		350.00	350.00
404					Port Collar	5 1/2	in	1	ea		2400.00	2400.00
419					Rotating Head Rental	5 1/2	in	1	ea		200.00	200.00

**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**

DATE SIGNED: 1-14-13 TIME SIGNED: 5:30

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

REMIT PAYMENT TO:

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: #1 5700.00 #2 5236.25

TAX

TOTAL

SWIFT OPERATOR: David Huelin

APPROVAL: [Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4/13/13 PAGE NO.

CUSTOMER American Warrior

WELL NO.

2-5

LEASE

0150n

JOB TYPE

Cement long string

TICKET NO.

23743

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk w/ 1/4" SA-2 cement 5 1/2" 15.5" casing 102 pints TD=4260' Total pipe 4262' set 4259' Centralizers 1, 2, 3, 4, 6, 9 Basket 5-70 PortCollar #70 1357' shoe, 48.48
	1730							on loc TRK 114
	1815							Start 5 1/2" 15.5" casing in well
	2015							Drop ball - circulate - Rotate
	2045	6 3/4	12		✓		300	Pump 500 gal mud flush
		6 3/4	20		✓		300	Pump 20 bbl KCh flush
			7					Plug RH 30 sks
	2057	4 1/2	35		✓		200	mix SA-2 cement 145 sks @ 15.3 gpm
								Drop latch down plug wash out pump & line
	2110	6 3/4	0		✓		0	Displace plug
		6 3/4	76		✓		350	Lift PSE
		6 3/4	100		✓		800	max Lift PSE
	2127	6 3/4	100.5		✓		1600	LAND plug
								Release pressure to truck - dried up
								wash truck
								Rack up
	2200							Job complete
								Thank You Dave Blaine TJ Rob



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

TICKET CONTINUATION

TICKET No. 23743

CUSTOMER American Wellcor

WELL Olson 2-5

DATE 1-14-13

PAGE 2

ITEM	QTY	UNIT	PRICE	TOTAL	WELL	DATE	PAGE
Standard Cement	175	sls	13.50	2362.50			
Celsoal	8	sls	35.00	280.00			
Sulf	10	%	9.00	90.00			
Hkhd - 322	3/4	%	125.00	93.75			
Floerle	1/4	lb	80.00	20.00			
O-Air	2	gal	35.00	70.00			
Mudflsh	500	gal	1.25	625.00			
Liquid KCL	2	gal	25.00	50.00			
Minimum Drydock Charge	1	sq	250.00	250.00			
Minimum SERVICE CHARGE	1		2.00	350.00			
TOTAL WEIGHT				5236.25			
LOADED MILES							
CUBIC FEET							
TON MILES							





Services, Inc.

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

TICKET No 29702

CITY, STATE, ZIP CODE

PAGE 1 OF

SERVICE LOCATION: NESS CITY, KS  
WELL/PROJECT NO.: OLSON 2  
LEASE: NESS  
COUNTY: NESS  
STATE: KS  
CITY: BAZINE, KS  
DATE: 18 JAN 13  
OWNER:

TICKET TYPE:  SERVICE  SALES  
CONTRACTOR: ADD OILFIELD SERV.  
RIG NAME/NO.:  
WELL CATEGORY: OIL  
JOB PURPOSE: Development Cement Port Collar  
WELL PERMIT NO.:  
WELL LOCATION: 0251E, 12N, 8E, S, T20

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
5795					MILEAGE P 115	20	MIL			6.00	120.00
5760					PUMP CHARGE	1	CHRG			1857.00	1857.00
105					PORT COLLAR W/DRINK TOOL	1	TKB			350.00	350.00
276					FLDSE	33	TKB			2.00	66.00
291D					D-AIR	1	GR			35.00	35.00
330					SWIFT MULT DENSITY	130	GR			16.59	2145.00
081					CEMENT SERVICE CHARGE	175	SK			2.00	350.00
582					MAXIMUM DRAYAGE	17884	TKB	173.84	TM	25.00	445.00
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											
DATE SIGNED: 18 JAN 13											
TIME SIGNED: 12:45 PM											
SWIFT OPERATOR: Paul K. Roberts											
APPROVAL:											
REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300											
SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? <input type="checkbox"/> MET YOUR NEEDS? <input type="checkbox"/> OUR SERVICE WAS PERFORMED WITHOUT DELAY? <input type="checkbox"/> WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? <input type="checkbox"/> ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND											
PAGE TOTAL: 4729.55											

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 18 JAN 13 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE OLSON 2 - JOB TYPE CEMENT PORT COLLAR TICKET NO. 23792

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							ON LOCATION
								PORT COLLAR @ 1375
	1219				✓		1000	TEST - HELD
	1222							OPEN PORT COLLAR
	1237	4 1/2	72	✓		500		MIX 130sx SMD
		3	4 1/2	✓		200		DISPLACE CEMENT
								CIRCULATE 20sx 10 PTT
	1255				✓		1000	CLOSE PORT COLLAR - TEST - HELD
	1300							RUN 4 JTS.
	1305	3 1/2	160		✓			REVERSE CEMENT OUT OF TUBING
	1315							WASH TRUCK
	1345							JOB COMPLETE
								THANKS #115
								JASON JEFF FLINT

# **Geological Report**

American Warrior, Inc.

**Olson #2-5**

2084' FSL & 2002' FEL

Sec. 5 T19s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Olson #2-5  
2084' FSL & 2002' FEL  
Sec. 5 T19s R21w  
Ness County, Kansas  
API # 15-135-25475-0000

Drilling Contractor: Petromark Drilling, LLc Rig #1

Geologist: Jason T Alm

Spud Date: January 7, 2013

Completion Date: January 14, 2013

Elevation: 2154' Ground Level  
2160' Kelly Bushing

Directions: Bazine KS, South on DD rd to 100 rd, East to EE rd, South to 115 rd. East ½ mi. South and East into location.

Casing: 221' 8 5/8" surface casing  
4259' 5 1/2" production casing

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

Drilling Time: 3600' to RTD

Electric Logs: None

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

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> Olson #2-5 Sec. 5 T19s R21w 2084' FSL & 2002' FEL
<b>Formation</b>	
Anhydrite	<b>1379', +781</b>
Base	<b>1412', +748</b>
Heebner	<b>3624', -1464</b>
Lansing	<b>3668', -1508</b>
BKc	<b>3990', -1830</b>
Pawnee	<b>4069', -1909</b>
Fort Scott	<b>4143', -1983</b>
Cherokee	<b>4160', -2000</b>
Mississippian	<b>4242', -2082</b>
Osage	<b>4252', -2092</b>
RTD	<b>4260', -2100</b>

## Sample Zone Descriptions

- Fort Scott (4143', -1983):      Not Tested**  
 Ls – Fine to sub-crystalline with scattered pinpoint inter-crystalline porosity, light spotted oil stain in porosity, no show of free oil, no odor, fair yellow fluorescents, mostly dense.
- Mississippian Osage (4252', -2092):      Covered in DST #1**  
 Dolo – Δ – Fine sucrosic crystalline with fair to good inter-crystalline and vuggy porosity, heavy triptolic chert, weathered with good vuggy porosity, light to good oil stain in porosity, good show of free oil, fair to good odor, spotted yellow fluorescents.

**Drill Stem Tests**  
 Trilobite Testing, Inc.  
 "Brandon Turley"

**DST #1**

**Mississippian Osage**

Interval (4254' – 4260') Anchor Length 6'

IHP	– 2199 #	
IFP	– 45" – Built to 5 in.	19-75 #
ISI	– 45" – Dead	1132 #
FFP	– 45" – Built to 4 in.	19-109 #
FSI	– 45" – Dead	1122 #
FHP	– 2102 #	
BHT	– 118°F	

Recovery: 40' GCO  
 180' MCW

**Structural Comparison**

<b>Formation</b>	<b>American Warrior, Inc. Olson #2-5 Sec. 5 T19s R21w 2084' FSL &amp; 2002' FEL</b>	<b>American Warrior, Inc. Olson #1-5 Sec. 5 T19s R21w 2302' FSL &amp; 2310' FEL</b>	<b>Dreiling Oil Co. Foos #1 Sec. 5 T19s R21w 990' FSL &amp; 1650' FEL</b>
Anhydrite	<b>1379', +781</b>	1399', +781	1379', +780
Base	<b>1412', +748</b>	1432', +748	1411', +748
Heebner	<b>3624', -1464</b>	3644', -1464	3623', -1464
Lansing	<b>3668', -1508</b>	3689', -1509	3671', -1512
BKc	<b>3990', -1830</b>	4014', -1834	NA
Pawnee	<b>4069', -1909</b>	4090', -1910	NA
Fort Scott	<b>4143', -1983</b>	4164', -1984	4156', -1997
Cherokee	<b>4160', -2000</b>	4181', -2001	4169', -2010
Mississippian	<b>4242', -2082</b>	4263', -2083	4244', -2085
Osage	<b>4252', -2092</b>	4263', -2083	NA

## Summary

The location for the Olson #2-5 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 Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Olson #2-5 well.

## Recommended Perforations

**Primary:**

Mississippian Osage	(4252' – 4256')	DST #1
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Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.







## DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

**Olson #2-5**

**5-19s-21w Ness,KS**

Start Date: 2013.01.14 @ 02:00:36

End Date: 2013.01.14 @ 09:18:30

Job Ticket #: 50123                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.18 @ 08:07:42

American Warrior  
5-19s-21w Ness,KS  
Olson #2-5  
DST # 1  
Miss  
2013.01.14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**5-19s-21w Ness,KS**  
**Olson #2-5**  
Job Ticket: 50123      **DST#: 1**  
Test Start: 2013.01.14 @ 02:00:36

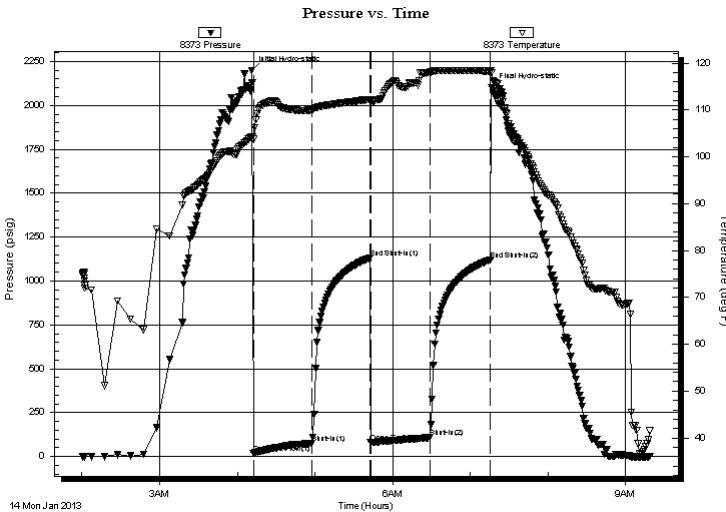
## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:12:31  
Time Test Ended: 09:18:30  
Interval: **4254.00 ft (KB) To 4260.00 ft (KB) (TVD)**  
Total Depth: 4260.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brandon Turley  
Unit No: 60  
Reference Elevations: 2160.00 ft (KB)  
2154.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 8373      Inside**  
Press @ Run Depth: 109.09 psig @ 4255.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.01.14      End Date: 2013.01.14      Last Calib.: 2013.01.14  
Start Time: 02:00:36      End Time: 09:18:30      Time On Btm: 2013.01.14 @ 04:11:01  
Time Off Btm: 2013.01.14 @ 07:16:30

**TEST COMMENT:** IF: 1/4" blow built to 5"  
IS: No return.  
FF: Surface blow built to 4"  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.42	104.30	Initial Hydro-static
2	19.77	103.75	Open To Flow (1)
47	75.10	110.06	Shut-In(1)
92	1131.58	112.25	End Shut-In(1)
92	79.71	111.84	Open To Flow (2)
138	109.09	118.05	Shut-In(2)
185	1121.71	118.33	End Shut-In(2)
186	2102.17	118.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw 90%w 10%m	1.45
40.00	go 10%g 90%o	0.56

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

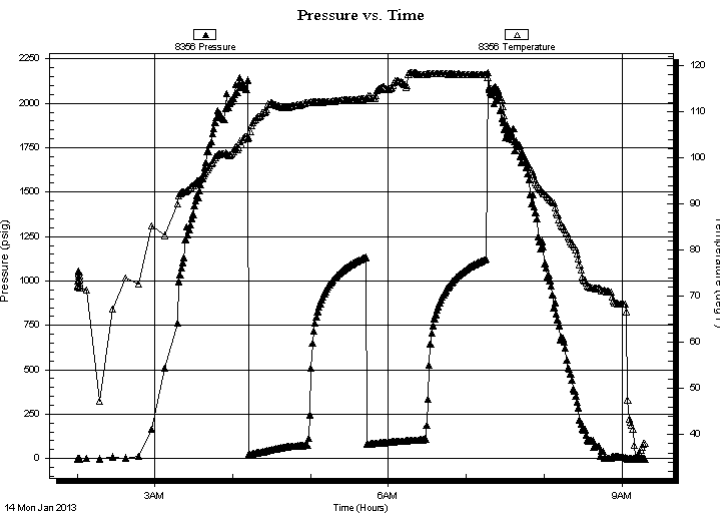
**5-19s-21w Ness,KS**  
**Olson #2-5**  
Job Ticket: 50123      **DST#: 1**  
Test Start: 2013.01.14 @ 02:00:36

**GENERAL INFORMATION:**

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 04:12:31      Tester: Brandon Turley  
Time Test Ended: 09:18:30      Unit No: 60  
  
Interval: **4254.00 ft (KB) To 4260.00 ft (KB) (TVD)**      Reference Elevations: 2160.00 ft (KB)  
Total Depth: 4260.00 ft (KB) (TVD)      2154.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 6.00 ft

**Serial #: 8356      Outside**  
Press @ RunDepth:      psig @ 4255.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.01.14      End Date: 2013.01.14      Last Calib.: 2013.01.14  
Start Time: 02:00:32      End Time: 09:17:56      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 1/4" blow built to 5"  
IS: No return.  
FF: Surface blow built to 4"  
FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	mcw 90%w 10%m	1.45
40.00	go 10%g 90%o	0.56

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**5-19s-21w Ness,KS**  
**Olson #2-5**  
Job Ticket: 50123      **DST#: 1**  
Test Start: 2013.01.14 @ 02:00:36

**Tool Information**

Drill Pipe:	Length: 4124.00 ft	Diameter: 3.80 inches	Volume: 57.85 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: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 58.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4254.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	34.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Stubb	1.00			4227.00	
Shut In Tool	5.00			4232.00	
Hydraulic tool	5.00			4237.00	
Jars	5.00			4242.00	
Safety Joint	3.00			4245.00	
Packer	5.00			4250.00	28.00      Bottom Of Top Packer
Packer	4.00			4254.00	
Stubb	1.00			4255.00	
Recorder	0.00	8373	Inside	4255.00	
Recorder	0.00	8356	Outside	4255.00	
Bullnose	5.00			4260.00	6.00      Bottom Packers & Anchor

**Total Tool Length: 34.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior

**5-19s-21w Ness,KS**

PO Box 399  
Garden City, KS 67846

**Olson #2-5**

Job Ticket: 50123

**DST#: 1**

ATTN: Jason Alm

Test Start: 2013.01.14 @ 02:00:36

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mcw 90%w 10%m	1.450
40.00	go 10%g 90%o	0.561

Total Length: 220.00 ft      Total Volume: 2.011 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

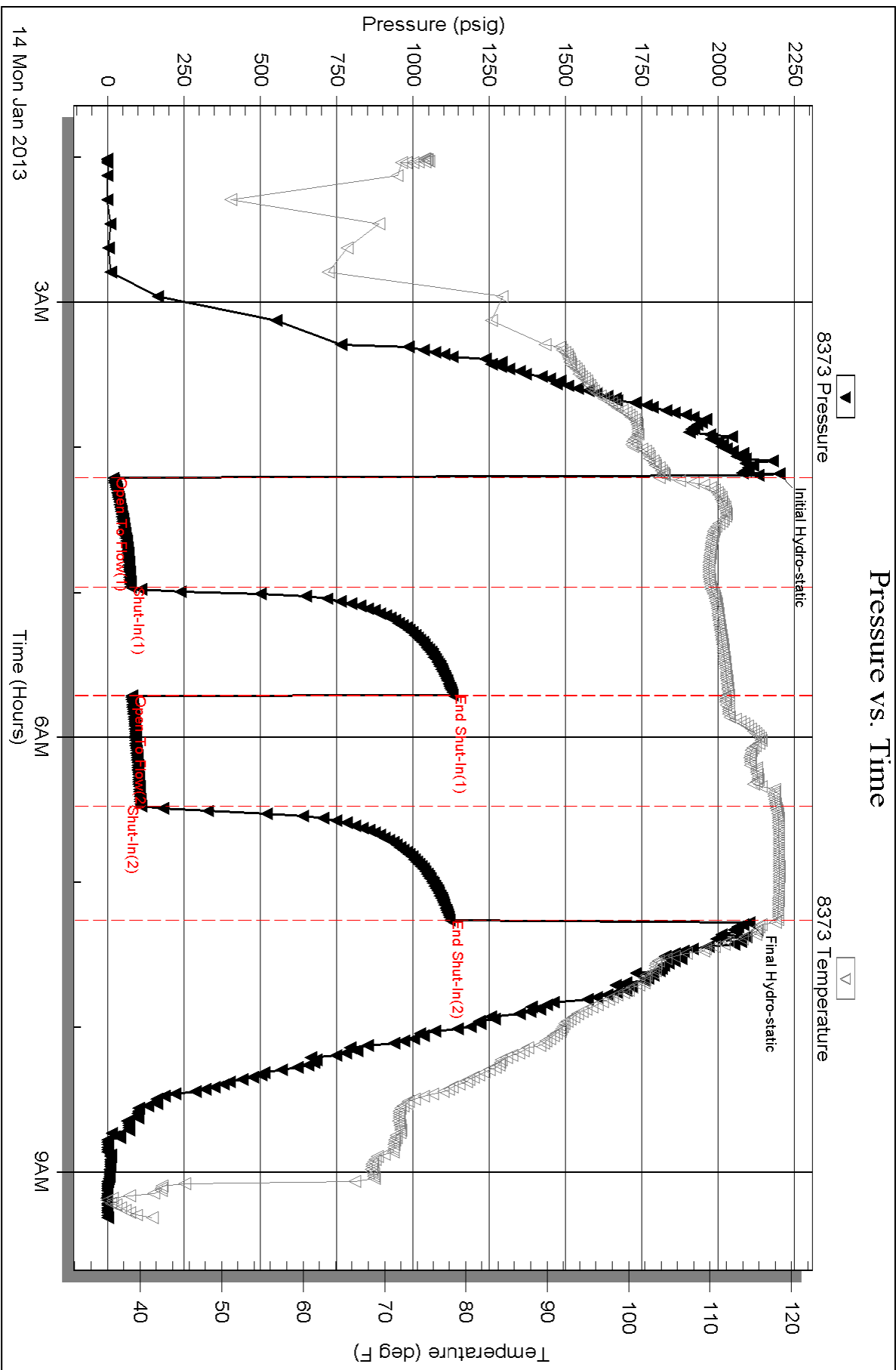
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 40@40=42

.51@27=32000

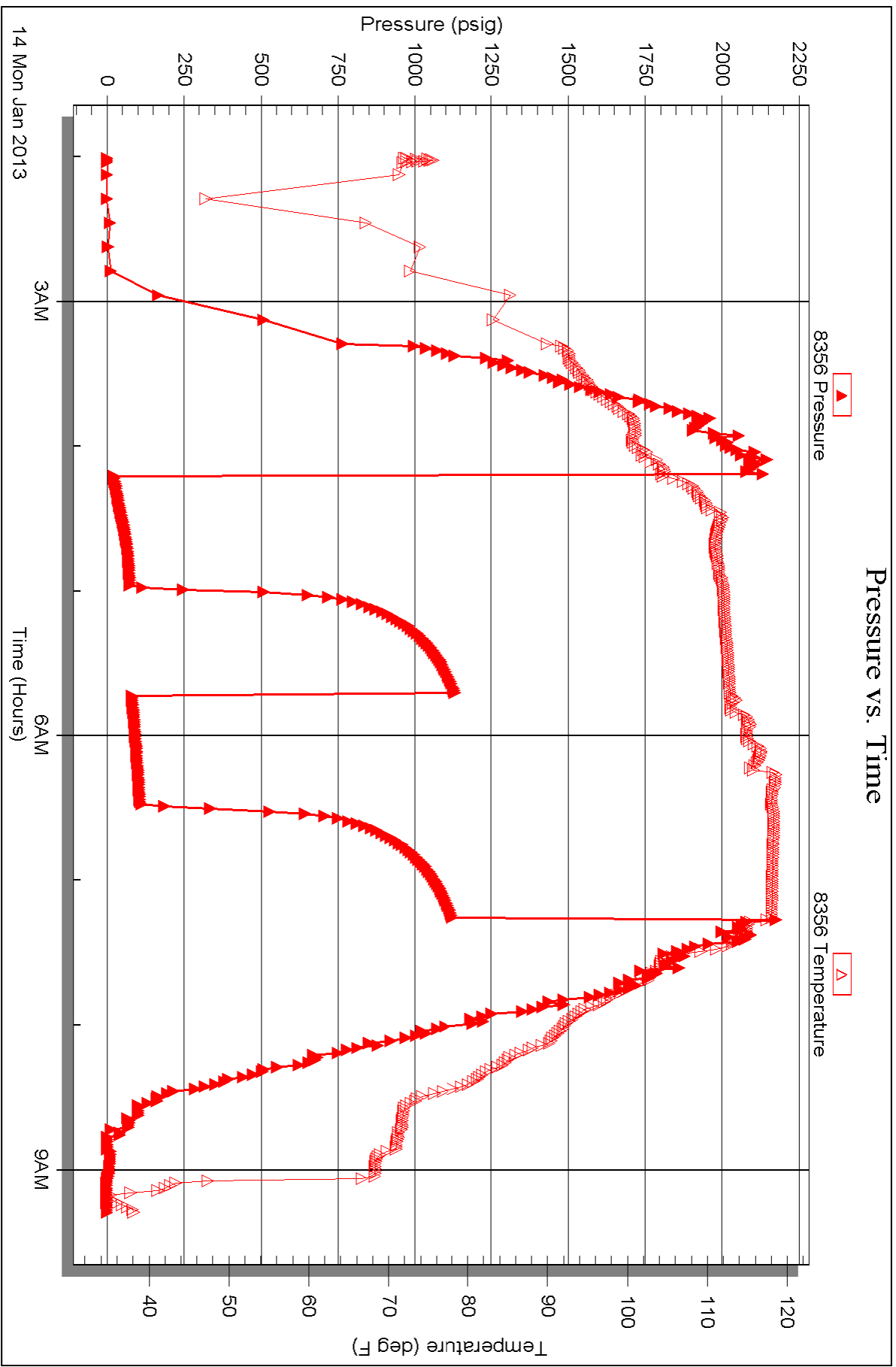


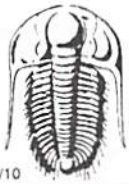
Serial #: 8356

Outside American Warrior

Olson #2-5

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50123

Well Name & No. Olson 2-5 Test No. 1 Date 1-14-13  
 Company American Warrior Elevation 2160 KB 2154 GL  
 Address 3118 Cummings Rd Garden city, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Petromark  
 Location: Sec. 5 Twp. 19S Rge. 21W Co. Ness State KS

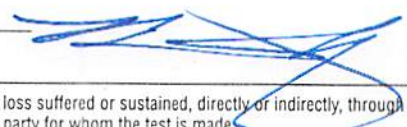
Interval Tested 4254 4260 Zone Tested MISS  
 Anchor Length 6 Drill Pipe Run 4124 Mud Wt. 9.2  
 Top Packer Depth 4249 Drill Collars Run 118 Vis 56  
 Bottom Packer Depth 4254 Wt. Pipe Run — WL 7.2  
 Total Depth 4260 Chlorides 7400 ppm System LCM 0

Blow Description IF1 1/4 blow built to 5.  
IS! No return.  
FF! surface blow built to 4.  
F5! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>go</u>	<u>10</u>	<u>90</u>		
<u>180</u>	<u>mcw</u>			<u>90</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 220 BHT 118 Gravity 42 API RW .51 @ 27 °F Chlorides 34,000 ppm  
 (A) Initial Hydrostatic 2199  Test 1250 T-On Location 00:30  
 (B) First Initial Flow 19  Jars 250 T-Started 2:00  
 (C) First Final Flow 75  Safety Joint 75 T-Open 4:12  
 (D) Initial Shut-In 1131  Circ Sub NIL T-Pulled 7:17  
 (E) Second Initial Flow 79  Hourly Standby T-Out 9:20  
 (F) Second Final Flow 109  Mileage 150 110rt 170.50 Comments  
 (G) Final Shut-In 1121  Sampler  
 (H) Final Hydrostatic 2102  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1745.50  
 Accessibility MP/DST Disc't

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1745.50

Approved By \_\_\_\_\_ Our Representative 

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