



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1195076
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: _____



1195076

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Riedel 'C' 1-31
Doc ID	1195076

Tops

Name	Top	Datum
Anhy	1559'	+720
B/Anhy	1603'	+676
Topeka	3269'	-990
Heebner	3522'	-1243
Toronto	3542'	-1263
Lansing	3562'	-1283
B/KC	3806'	-1527
Marmaton	3845'	-1566
Arbuckle	3893'	-1614



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

TICKET 25328

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Hays, Ks.</i>	WELL/PROJECT NO. <i>C# 1-31</i>	LEASE <i>Riedel</i>	COUNTY/PARISH <i>Ellis</i>	STATE <i>Ks</i>	CITY	DATE <i>2-18-14</i>	OWNER <i>Same</i>
2. <i>Ness City, Ks.</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Discovery Drlg #3</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Location</i>	ORDER NO.	
3.	WELL TYPE <i>oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Longstring</i>	WELL PERMIT NO.	WELL LOCATION		
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 #111	20		mi		6.00	120.00
578		1			Pump Change (Longstring)	1	3993			1500.00	1500.00
221		1			KLL	2		gal		25.00	50.00
281		1			Mudflush	500		gal		1.25	625.00
290		1			D-Air	2		gal		42.00	84.00
402		1			Centralizer	7	5 1/2			70.00	490.00
403		1			Basket	1				300.00	300.00
404		1			Pert Cellar	1				2900.00	2900.00
406		1			LD Plug & Baffle	1				275.00	275.00
407		1			Insert Float Shoe w/ fill	1				375.00	375.00
419		1			Rotating Head	1				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

x *Selen Barber*
 DATE SIGNED *2-18-14* TIME SIGNED *1120* 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		AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL 1	6919.00
WE UNDERSTOOD AND MET YOUR NEEDS?				page 2	48.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				39	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				subtotal	11733.00
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				Ellis TAX 6.65%	58
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	12,384.53

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

SWIFT OPERATOR *Mark Kocher* APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 25328

CUSTOMER American Warrior Inc. WELL C#1-31 Riedel DATE 2-18-14 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		2				Standard Cement	175	sk			14 ⁵⁰	2537 ⁵⁰
276		2				Flocc 1-c	50	#			2 ⁵⁰	125 ⁰⁰
283		2				Salt	900	#			2 ⁰⁰	180 ⁰⁰
284 285		2				Calseal	8	sk			35 ⁰⁰	280 ⁰⁰
292		2				Halad-322	125	#			8 ⁰⁰	1000 ⁰⁰
581		2				SERVICE CHARGE	175	sk			2 ⁰⁰	350 ⁰⁰
583		2				MILEAGE CHARGE	TOTAL WEIGHT 18325		LOADED MILES 40	TON MILES 366.5	1 ⁰⁰	366 ⁵⁰

CONTINUATION TOTAL 483⁹ 00



CHARGE TO: *American Warrior Inc.*
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET 25339

PAGE 1 OF 1

SERVICE LOCATIONS
 1. *Hays, Ks*
 2. *Ness City, Ks*
 3.
 4.

WELL/PROJECT NO. *C # 1-31* LEASE *Reidel* COUNTY/PARISH *Ellis* STATE *Ks* CITY DATE *2-27-14* OWNER *SCMC*

TICKET TYPE SERVICE SALES CONTRACTOR *Express Well Service* RIG NAME/NO. SHIPPED VIA *CT* DELIVERED TO *Location* ORDER NO.

WELL TYPE *oil* WELL CATEGORY *development* JOB PURPOSE *Acidize/squeeze/Port Cellar* WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
575		1			MILEAGE #111	20	mi	6.00	120.00
576D		1			Pump Charge (Port Cellar)	1	ea	1500.00	1500.00
290		1			D-Air	3	gal	42.00	126.00
300		1			Reg. Acid	250	gal	1.85	462.50
235		1			INH-1	1	gal	40.00	40.00
105		1			Port Cellar Tool Rental/umpen	1	ea	350.00	350.00
325		2			Standard Cement	75	skts	14.50	1087.50
286		2			Halad-1	10	#	8.50	85.00
330		2			SMD Cement	125	skts	18.50	2312.50
276		2			Flocel-c	50	#	2.50	125.00
581		2			Cement Service Charge	275	skts	2.00	550.00
583		2			Drayage	534.5	TM	1.15	534.50

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 *2-27-14* TIME SIGNED 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	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				7293	300
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Ellis TAX 6.65%	271.72
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	7564.72
<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 *Melvin Kishner* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2-27-14 PAGE NO.

CUSTOMER American Warrior Inc. WELL NO. C # 1-31 LEASE Reidel JOB TYPE Port Cellar TICKET NO. 25339

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0840							on loc set up Trks
								2 3/8" x 5 1/2"
								P.C. 1557'
								locate P.C. 1551'
								start Perfs 3922-23'
								Per to spot 3927'
								to treat + squeeze 3814'
	1010	2	0			0		spot Acid over Perfs
	1017		15.5			800/1500		Break down stage
	1025	1.5	24			700		final rate
	1028	1.5	0			700		start Cement 75sks standard
	1038		16			50%		End Cement Malad in 1st 25sks
								wash Pth
	1045	1	0			0		start Displacement
	1055		10			2000		shut down
	1100					2000%		Release Pressure (dry)
	1103	2.5	0				500	Reverse cut
	1113		25					Hole clean
	1115					2000		Repressure
	1120					2000%		Release Pressure (dry)
								TOOH w/ Pkr
								TIH w/ P.C. Tool
								locate P.C. @ 1551'
	1330						1000	Test csg to 1000 Psi
								Open P.C.
	1335	2.5	3			150		Take water & check for blow
	1340	4.5	30					start SMD Cement 125sks
	1353	4.5	58/0					Give Cement/Raise weight
	1354	4	65/0					End Cement/Start displacement
	1355		5					Cement Displaced
								close PC
	1400						1000	Test csg to 1000 Psi
								Run Sifs
	1413	3	0				200	Reverse cut
	1420		20					Hole Clean
								Thank you
								Nick & David E. & John J
								circ 20sks SMD to Pit



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
GardenCity KS 67846

ATTN: Jason Alm

Riedel C #1-31

31-13s-19w Ellis,KS

Start Date: 2014.02.16 @ 11:05:00

End Date: 2014.02.16 @ 18:06:15

Job Ticket #: 56212 DST #: 1

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

Printed: 2014.02.18 @ 13:40:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 GardenCity KS 67846
 ATTN: Jason Alm

31-13s-19w Ellis,KS
Riedel C #1-31
 Job Ticket: 56212 **DST#: 1**
 Test Start: 2014.02.16 @ 11:05:00

GENERAL INFORMATION:

Formation: **KC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:14:45
 Time Test Ended: 18:06:15
 Interval: **3673.00 ft (KB) To 3755.00 ft (KB) (TVD)**
 Total Depth: 3755.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2278.00 ft (KB)
 2271.00 ft (CF)
 KB to GR/CF: 7.00 ft

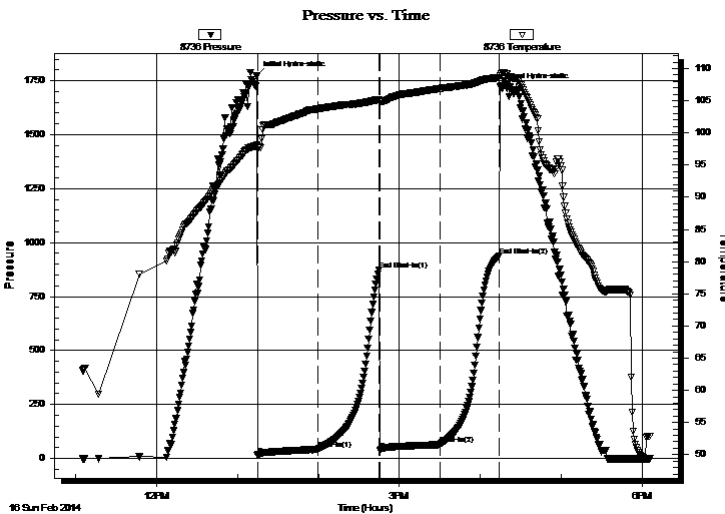
Serial #: 8736

Outside

Press@RunDepth: 64.35 psig @ 3677.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.16 End Date: 2014.02.16 Last Calib.: 2014.02.16
 Start Time: 11:05:05 End Time: 18:06:14 Time On Btm: 2014.02.16 @ 13:14:15
 Time Off Btm: 2014.02.16 @ 16:15:45

TEST COMMENT: IF-BOB in 29 min
 IS-Very weak surface blow
 FF-BOB Immediately
 FS-Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.87	98.07	Initial Hydro-static
1	15.50	97.38	Open To Flow (1)
45	42.35	103.71	Shut-In(1)
91	871.74	105.15	End Shut-In(1)
92	36.21	104.91	Open To Flow (2)
136	64.35	106.88	Shut-In(2)
180	939.66	108.58	End Shut-In(2)
182	1717.65	109.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	GOCM 20%G 30%O 50%M	1.34
0.00	385ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

31-13s-19w Ellis,KS

PO Box 399
GardenCity KS 67846

Riedel C #1-31

Job Ticket: 56212

DST#: 1

ATTN: Jason Alm

Test Start: 2014.02.16 @ 11:05:00

Tool Information

Drill Pipe:	Length: 3640.00 ft	Diameter: 3.80 inches	Volume: 51.06 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3673.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	82.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3650.00	
Hydraulic tool	5.00			3655.00	
Jars	5.00			3660.00	
Safety Joint	3.00			3663.00	
Packer	5.00			3668.00	28.00 Bottom Of Top Packer
Packer	5.00			3673.00	
Stubb	1.00			3674.00	
Perforations	3.00			3677.00	
Recorder	0.00	8018	Inside	3677.00	
Recorder	0.00	8736	Outside	3677.00	
Change Over Sub	1.00			3678.00	
Drill Pipe	63.00			3741.00	
Change Over Sub	1.00			3742.00	
Perforations	10.00			3752.00	
Bullnose	3.00			3755.00	82.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

31-13s-19w Ellis,KS

PO Box 399
GardenCity KS 67846

Riedel C #1-31

Job Ticket: 56212

DST#: 1

ATTN: Jason Alm

Test Start: 2014.02.16 @ 11:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3250.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	GOCM 20%G 30%O 50%M	1.340
0.00	385ft GIP	0.000

Total Length: 115.00 ft Total Volume: 1.340 bbl

Num Fluid Samples: 0

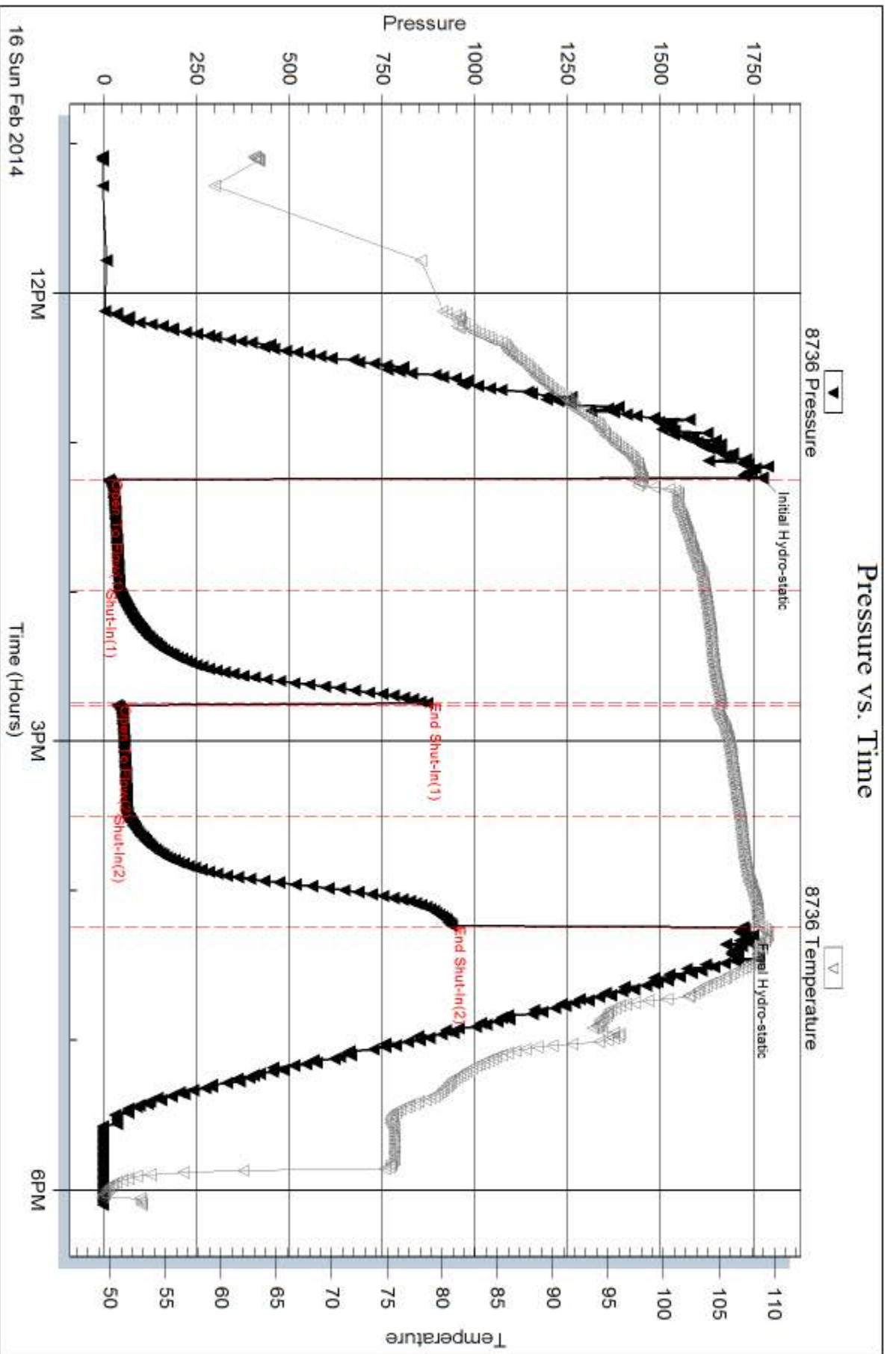
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



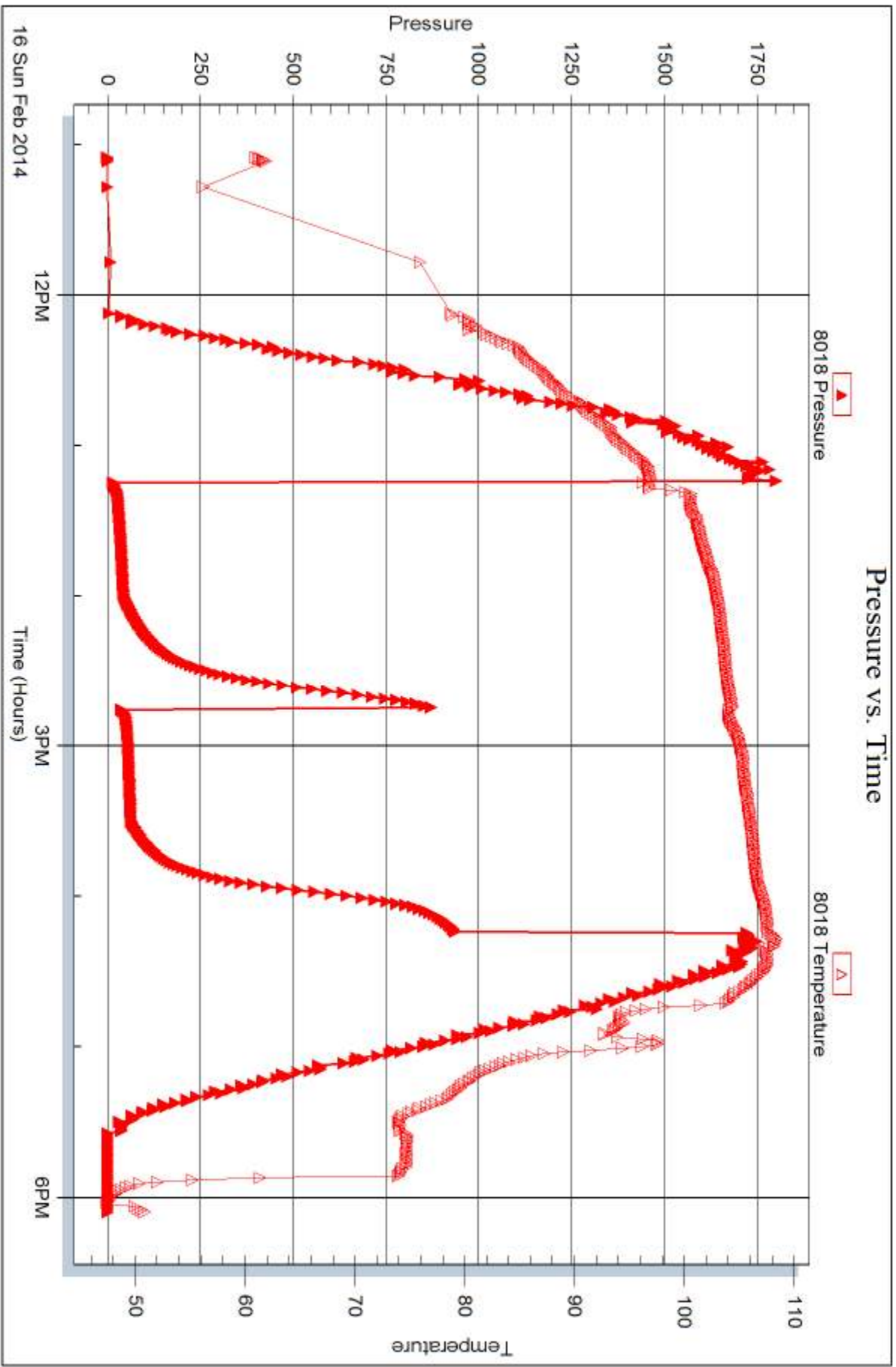
Serial #: 8018

Inside

American Warrior Inc.

Riedel C#1-31

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56212

Printed: 2014.02.18 @ 13:41:00



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
GardenCity KS 67846

ATTN: Jason Alm

Riedel C #1-31

31-13s-19w Ellis,KS

Start Date: 2014.02.17 @ 06:25:00

End Date: 2014.02.17 @ 12:26:45

Job Ticket #: 56213 DST #: 2

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

Printed: 2014.02.18 @ 13:40:15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 GardenCity KS 67846
 ATTN: Jason Alm

31-13s-19w Ellis,KS
Riedel C #1-31
 Job Ticket: 56213 **DST#: 2**
 Test Start: 2014.02.17 @ 06:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:13:45
 Time Test Ended: 12:26:45
 Interval: **3851.00 ft (KB) To 3909.00 ft (KB) (TVD)**
 Total Depth: 3909.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2278.00 ft (KB)
 2271.00 ft (CF)
 KB to GR/CF: 7.00 ft

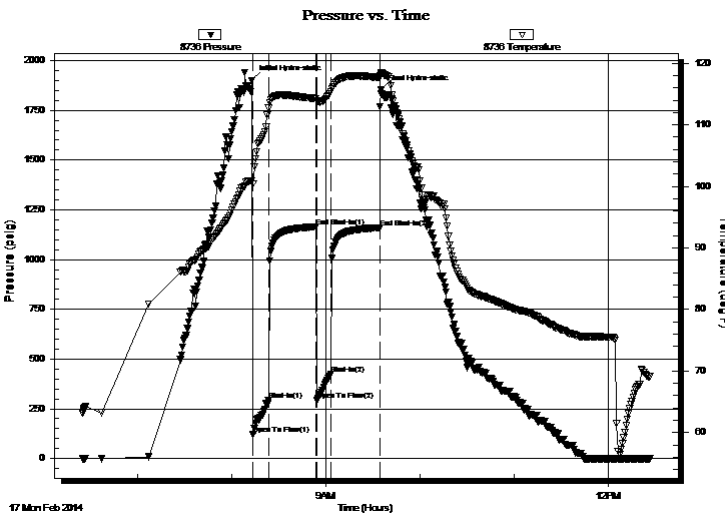
Serial #: 8736

Outside

Press@RunDepth: 423.05 psig @ 3855.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.17 End Date: 2014.02.17 Last Calib.: 2014.02.17
 Start Time: 06:25:05 End Time: 12:26:44 Time On Btm: 2014.02.17 @ 08:13:15
 Time Off Btm: 2014.02.17 @ 09:35:15

TEST COMMENT: IF-BOB in 1 1/2 min
 IS-4" blow
 FF-BOB in 1 min
 FS-1" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.83	100.92	Initial Hydro-static
1	120.65	100.42	Open To Flow (1)
11	294.49	112.72	Shut-In(1)
41	1164.39	114.26	End Shut-In(1)
41	292.41	113.93	Open To Flow (2)
50	423.05	115.36	Shut-In(2)
82	1160.30	117.65	End Shut-In(2)
82	1851.42	118.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
515.00	GO 20%G 80%O	6.95
370.00	GMCO 20%G 60%O 20%M	5.19
120.00	GVSWOCM 10%G 20%O 5%W 65%M	1.68
0.00	180ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

31-13s-19w Ellis,KS

PO Box 399
GardenCity KS 67846

Riedel C #1-31

Job Ticket: 56213

DST#: 2

ATTN: Jason Alm

Test Start: 2014.02.17 @ 06:25:00

Tool Information

Drill Pipe:	Length: 3804.00 ft	Diameter: 3.80 inches	Volume: 53.36 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3851.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3836.00	
Hydraulic tool	5.00			3841.00	
Packer	5.00			3846.00	20.00 Bottom Of Top Packer
Packer	5.00			3851.00	
Stubb	1.00			3852.00	
Perforations	3.00			3855.00	
Recorder	0.00	8018	Inside	3855.00	
Recorder	0.00	8736	Outside	3855.00	
Change Over Sub	1.00			3856.00	
Drill Pipe	32.00			3888.00	
Change Over Sub	1.00			3889.00	
Perforations	17.00			3906.00	
Bullnose	3.00			3909.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

31-13s-19w Ellis,KS

PO Box 399
GardenCity KS 67846

Riedel C #1-31

Job Ticket: 56213

DST#: 2

ATTN: Jason Alm

Test Start: 2014.02.17 @ 06:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3250.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
515.00	GO 20%G 80%O	6.951
370.00	GMCO 20%G 60%O 20%M	5.190
120.00	GVSWOCM 10%G 20%O 5%W 65%M	1.683
0.00	180ft GIP	0.000

Total Length: 1005.00 ft

Total Volume: 13.824 bbl

Num Fluid Samples: 0

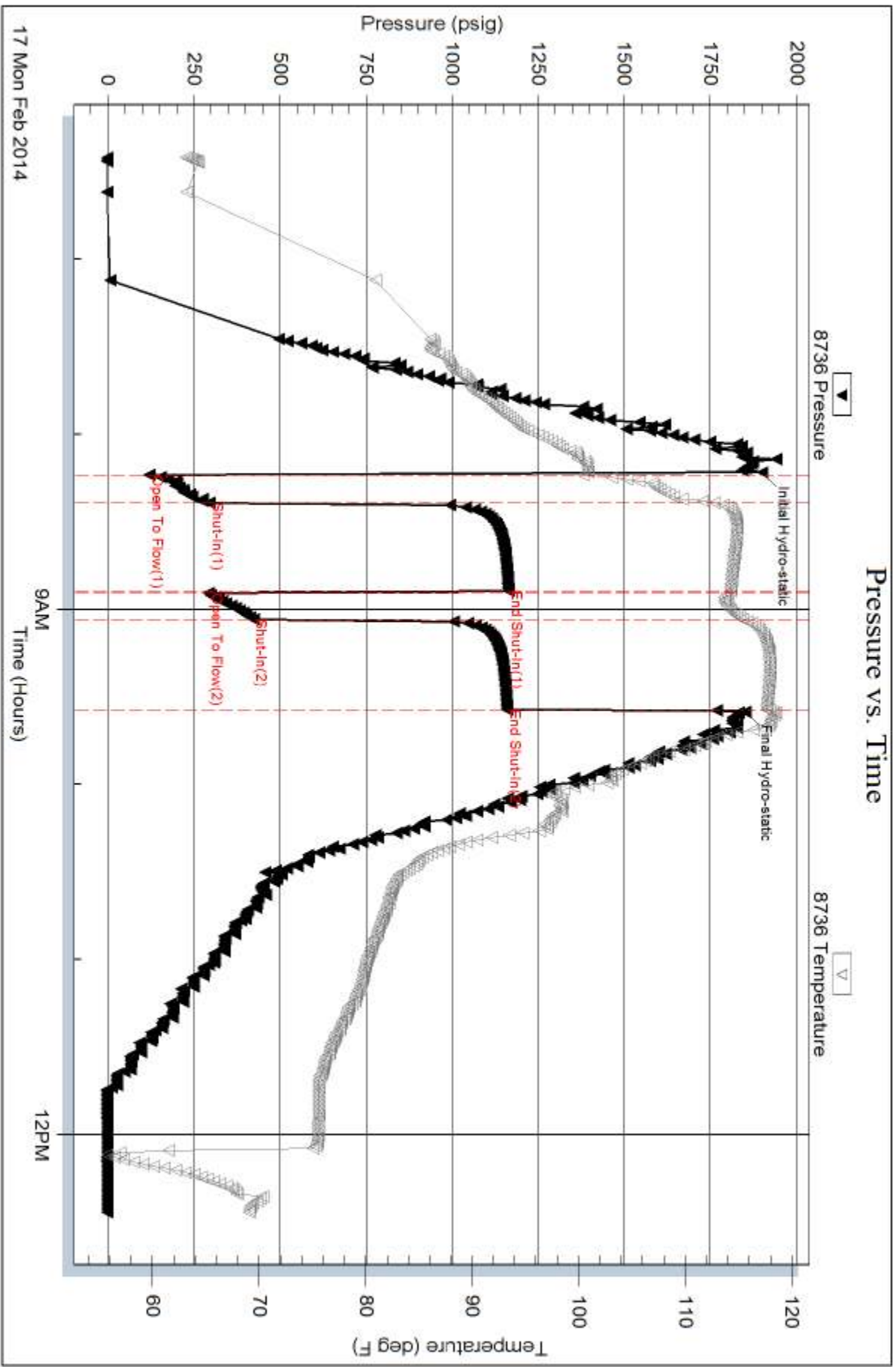
Num Gas Bombs: 0

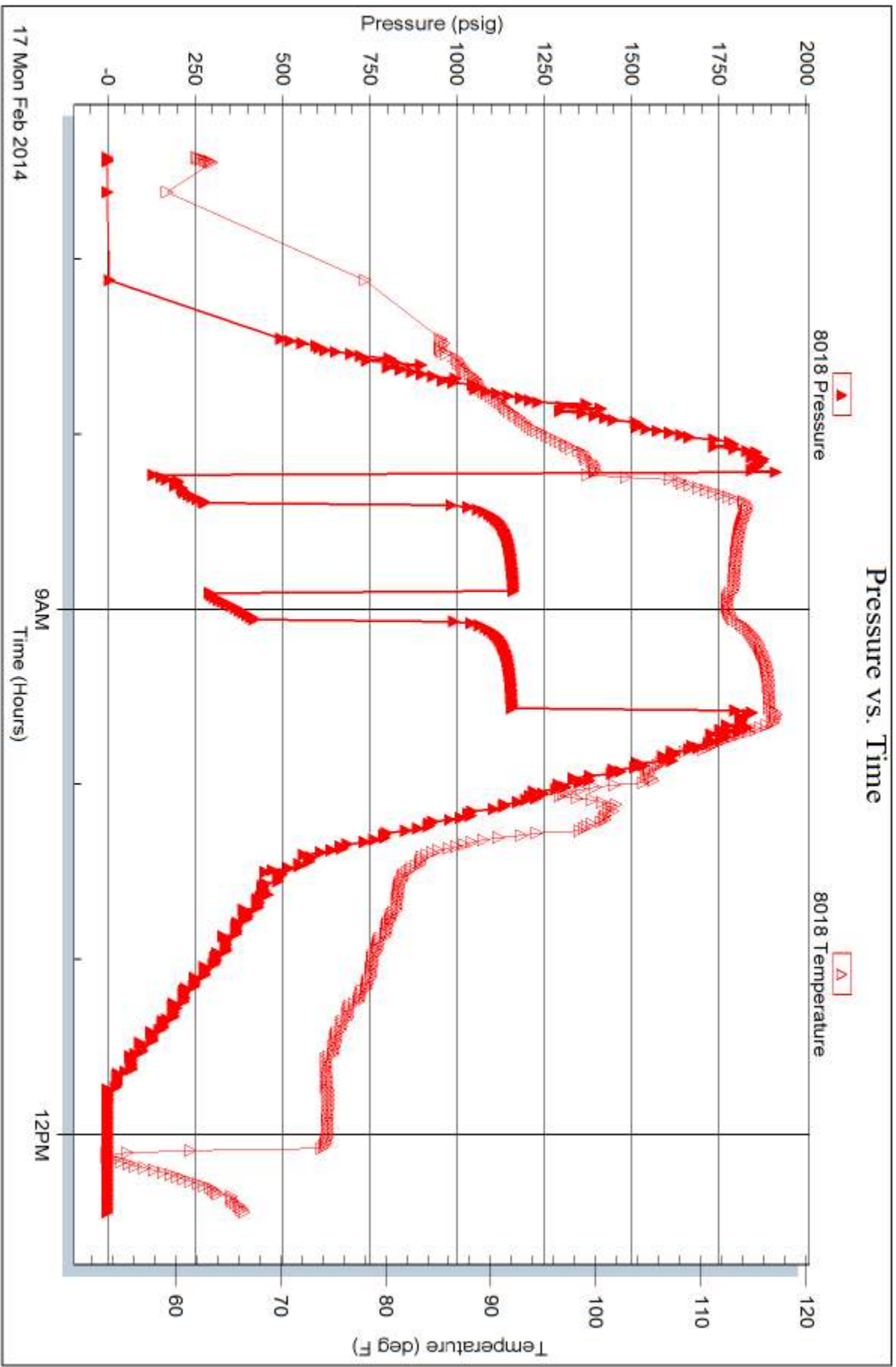
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56212

Well Name & No. Riedel C # 6-31 Test No. 1 Date 2/16/14
 Company American Warrior, Inc. Elevation 2278 KB 2271 GL
 Address PO Box 399 Gardencity KS 67846
 Co. Rep / Geo. Jason Alm Rig Discovery #3
 Location: Sec. 31 Twp. 13s Rge. 19w Co. Ellis State KS

Interval Tested 3673 - 3755 Zone Tested KC "H-J"
 Anchor Length 82 Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 3668 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3673 Wt. Pipe Run _____ WL 8.4
 Total Depth 3755 Chlorides 3250 ppm System LCM _____

Blow Description IF - BOB in 29 min
ISI - ~~very weak~~ very weak surface blow
FF - BOB ~~immediately~~ immediately
FSI - very weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>60CM</u>	<u>20</u>	<u>30</u>	<u>50</u>	
Rec _____	Feet of <u>385 ft 6IP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

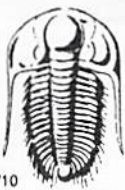
Rec Total 115 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,774 Test 1150 T-On Location 10:25
 (B) First Initial Flow 16 Jars _____ T-Started 11:05
 (C) First Final Flow 47 Safety Joint _____ T-Open 13:13
 (D) Initial Shut-In 872 Circ Sub _____ T-Pulled 16:13
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 18:05
 (F) Second Final Flow 64 Mileage 27.7 41.85 Comments _____
 (G) Final Shut-In 940 Sampler _____
 (H) Final Hydrostatic 1,718 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 43 Day Standby _____ Total 1191.85
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1191.85

Approved By _____ Our Representative [Signature]

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. **56213**

Well Name & No. Riedel C #1-31 Test No. 2 Date 2/17/14
 Company American Warrior, Inc Elevation 2278 KB 2271 GL
 Address PO Box 399 Garden city KS 67846
 Co. Rep / Geo. Jasen Alm Rig Discovery #3
 Location: Sec. 31 Twp. 13s Rge. 19w Co. Ellis State KS

Interval Tested 3851-3909 Zone Tested Arb
 Anchor Length 58 Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 3846 Drill Collars Run 30 Vis 5.4
 Bottom Packer Depth 3851 Wt. Pipe Run - WL 8.4
 Total Depth 3909 Chlorides 3,250 ppm System LCM 1 1/2

Blow Description IF - BOB in 1 1/2 min
ISL - 4 in blow
FF - BOB in 1 min
FST - in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>GVSWOCM</u>	<u>70</u>	<u>20</u>	<u>5</u>	<u>65</u>
<u>370</u>	<u>GMCO</u>	<u>20</u>	<u>60</u>		<u>20</u>
<u>515</u>	<u>60</u>	<u>20</u>	<u>80</u>		
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of <u>180 ft GAP</u>	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1005 BHT 118 Gravity 35 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1902 Test 1150 T-On Location 5:45
 (B) First Initial Flow 121 Jars _____ T-Started 6:25
 (C) First Final Flow 294 Safety Joint _____ T-Open 8:15
 (D) Initial Shut-In 1,164 Circ Sub _____ T-Pulled 9:35
 (E) Second Initial Flow 292 Hourly Standby _____ T-Out 12:30
 (F) Second Final Flow 423 Mileage 27 rt 41.85
 (G) Final Shut-In 1,160 Sampler _____
 (H) Final Hydrostatic 1,851 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1191.85
 Total 1191.85
 MP/DST Disc't _____

Approved By _____

Our Representative Butt Dickinson

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Geological Report

American Warrior, Inc.

Riedel C #1-31

2170' FNL & 2304' FEL

Sec. 31 T13s R19w

Ellis County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Riedel C #1-31
2170' FNL & 2304' FEL
Sec. 31 T13s R19w
Ellis County, Kansas
API # 15-051-26667-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: February 13, 2014

Completion Date: February 18, 2014

Elevation: 2271' Ground Level
2279' Kelly Bushing

Directions: Ellis KS, South on Ellis Blacktop to Victoria Rd.
East 4 1/2 mi. North into location.

Casing: 211' 8 5/8" surface casing
3994' 5 1/2" production casing

Samples: 10' wet and dry, 3250' to RTD

Drilling Time: 3100' to RTD

Electric Logs: Pioneer Energy Services "Y. Ruiz"
CNL/CDL, DIL, MEL

Drillstem Tests: Two, Trilobite Testing, Inc. "Brett Dickinson"

Problems: None

Remarks: None

Formation Tops

Formation	American Warrior, Inc. Riedel C #1-31 Sec. 31 T13s R19w 2170' FNL & 2304' FEL
Anhydrite	1559', +720
Base	1603', +676
Topeka	3269', -990
Heebner	3522', -1243
Toronto	3542', -1263
Lansing	3562', -1283
BKc	3806', -1527
Marmaton	3845', -1566
Arbuckle	3893', -1614
LTD	3995', -1716
RTD	3993', -1714

Significant Sample Zone Descriptions

LKc “C” zone	<p>(3590’, -1311) Not Tested Ls – Fine to sub-crystalline, oolitic with poor oomoldic and vuggy porosity, light scattered oil stain in porosity, no show of free oil, no odor, no fluorescents.</p>
LKc “I” zone	<p>(3719’, -1440) Covered in DST #1 Ls – Fine to sub-crystalline, oolitic with poor oomoldic and oolitic porosity, light to fair oil stain and saturation, slight show of free oil, light odor.</p>
LKc “J” zone	<p>(3738’, -1459) Covered in DST #1 Ls – Fine crystalline, oolitic packstone with fair to good oomoldic porosity, light to heavy oil stain and saturation, fair show of free oil, light odor, light to fair yellow fluorescents.</p>
LKc “K” zone	<p>(3762’, -1483) Not Tested Ls – Fine crystalline, oolitic packstone with poor oomoldic and oolitic porosity, light to good oil stain and saturation, fair show of free oil, light odor.</p>
Arbuckle	<p>(3893’, -1614): Covered in DST #2 Dolo – Fine to coarse rhombic crystalline with fair to good inter-crystalline and vuggy porosity, light to heavy oil stain and saturation in porosity, good show of free oil, good odor, fair to good cut fluorescents, fairly heavy oolitic chert.</p>

Drill Stem Tests
Trilobite Testing, Inc.
"Brett Dickinson"

DST #1

Lansing-Kansas City "H thru J" zones

Interval (3673' – 3755') Anchor Length 82'

IHP	- 1774 #	
IFP	- 45" – B.O.B. 29 min.	15-42 #
ISI	- 45" – W.S.B.	872 #
FFP	- 45" – B.O.B. Immediately	36-64 #
FSI	- 45" – W.S.B.	940 #
FHP	- 1718 #	
BHT	- 109°F	

Recovery: 385' GIP
115' GOCM 30% Oil

DST #2

Arbuckle

Interval (3851' – 3909') Anchor Length 58'

IHP	- 1901 #	
IFP	- 10" – B.O.B. 1½ min.	120-294 #
ISI	- 30" – Built to 4 in.	1164 #
FFP	- 10" – B.O.B. 1 min.	292-423 #
FSI	- 30" – Built to 1 in.	1160 #
FHP	- 1851 #	
BHT	- 118°F	

Recovery: 180' GIP
515' GCO API 35°
370' GMCO 60% Oil
120' GVSWOCM 20% Oil, 5% Water

Structural Comparison

	American Warrior, Inc. Riedel C #1-31 Sec. 31 T13s R19w 2170' FNL & 2304' FEL	Sid Tomlinson Riedel B #1 Sec. 31 T13s R19w N2 SW NE		Texas Company Geo Riedel #5 Sec. 31 T13s R19w NE NW SE	
Formation					
Anhydrite	1559', +720	1564', +707	(+13)	NA	NA
Base	1603', +676	NA	NA	NA	NA
Topeka	3269', -990	NA	NA	3260', -989	(+1)
Heebner	3522', -1243	3519', -1248	(+5)	3521', -1250	(+7)
Toronto	3542', -1263	3544', -1273	(+10)	NA	NA
Lansing	3562', -1283	3565', -1294	(+11)	3560', -1289	(+6)
BKc	3806', -1527	NA	NA	NA	NA
Marmaton	3845', -1566	NA	NA	NA	NA
Arbuckle	3893', -1614	3948', -1677	(+63)	3899', -1628	(+14)

Summary

The location for the Riedel C #1-31 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted both of which recovered commercial amounts of oil from the Lansing-Kansas City and Arbuckle Formations. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Riedel C #1-31 well.

Recommended Perforations		
Primary:		
Arbuckle	(3896' – 3903')	DST #2
Secondary:		
LKc "J" zone	(3746' – 3752')	DST #1
Before Abandonment:		
LKc "K" zone	(3770' – 3775')	Not Tested
LKc "C" zone	(3594' – 3600')	Not Tested
Perf and Squeeze:		
Arbuckle	(3922' – 3924')	

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.