



**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
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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

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: \_\_\_\_\_



1048214

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	Schniepp 2-31NE
Doc ID	1048214

Tops

Name	Top	Datum
Anhydrite	1369	+756
Heebner	3596	-1471
Lansing	3641	-1516
BKC	3962	-1837
Pawnee	4041	-1916
Ft. Scott	4124	-1999
Cherokee	4140	-2015
Mississippian	4205	-2080
LTD	4232	-2107



Services, Inc.

CHARGE TO  
ADDRESS  
American Waxing Inc  
CITY, STATE, ZIP CODE

TICKET  
17812

PAGE 1 OF 1

1. SERVICE LOCATIONS  
Ness Cox K

WELLPROJECT NO. 2-31 NE  
LEASE SCHWITZ  
COUNTY/PARISH Ness  
STATE KS  
CITY  
DATE 4-2-10  
OWNER SAME

2. TICKET TYPE: SERVICE  
CONTRACTOR PERFORMANCE DRILL # 1  
RIG NAME NO.  
SHIPPED VIA  
DELIVERED TO  
ORDER NO.

3. WELL TYPE OIL  
WELL CATEGORY Development  
JOB PURPOSE 8 5/8 SURFACE  
WELL PERMIT NO.  
WELL LOCATION BAZZELK-1E, 14S, W22W

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
\$75		1			MILEAGE # 110	20	MI			5.00	100.00
\$76B		1			PUMP CHARGE	1	JOB	1386	FT	1100.00	1100.00
221		1			KTROUD RCL	2	GM			25.00	50.00
281		1			MUDFLUSH	500	GM			1.00	500.00
409		1			TURBOLIZERS	4	EA	85/8	"	90.00	360.00
410		1			TOP PLUG	1	EA			100.00	100.00
412		1			BATTLE DATE	1	EA			100.00	100.00
330		1			SWIFT MULTIZ-DILSORY STANDARDS	4	SKS			14.00	64.00
276		1			FLOCCLE	230	LBS			1.50	345.00
290		1			D-ADR	4	GM			35.00	140.00
581		1			SEALIZE CHARGE CONSULT	4	SKS			1.50	6.00
583		1			DAYAGE	45990	LBS	4599	TM	1.00	45990.00

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 4-2-10  
TIME SIGNED 2:00 P.M.

OPERATOR JASON BATTIEF

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

APPROVAL

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

SURVEY

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?

AGREE UNDECIDED DIS-AGREE

PAGE TOTAL 10384.90

TAX

TOTAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2 APR 10 PAGE NO.

CUSTOMER AMERICAN WARRIOR

WELL NO.

LEASE SCHWIEPP 2-3INE

JOB TYPE CEMENT 8 5/8

TICKET NO. 17812

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2040							ON LOCATION
	2230							START PIPE IN WELL 8 5/8 - 23# TID @ 1387 SHOE JT 16' PIPE SET @ 1386
								CENTRALIZERS 1, 5, 11, 24
	0010							CIRCULATE.
	0026	6	12		✓			Pump MUD FLUSH
	0028	6	20		✓			Pump KCL FLUSH
	0033	6	71		✓			MIX 160 SKS @ 11.8 ppG.
		6	60.5		✓			MIX 150 SKS @ 12.5 ppG.
		6	31		✓			MIX 100 SKS @ 13.5 ppG.
		6	13		✓			MIX 50 SKS @ 14.5 ppG.
	0058							RELEASE PLUG.
	0059	6	89		✓			START DISPLACEMENT
								CIRCULATE 40 SKS TO PIN.
	0114							LAND PLUG.
								WASH TRUCK UP.
	0200							JOB COMPLETE
								THANKS #110
								JASON, ROGER, LANE, WAYNE



Services, Inc.

TICKET  
18444

PAGE 1 OF 2

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

SERVICE LOCATIONS  
1. Ness City, KS

WELL/PROJECT NO: 2-31 NE  
LEASE: Schmepp  
COUNTY/PARISH: Ness  
STATE: KS  
CITY: Ness City  
DATE: 4-7-10  
OWNER:

TICKET TYPE: CONTRACTOR  
RIG NAME/NO: 1  
SHIPPED VIA:  SERVICE  SALES  
DELIVERED TO: *Baume*  
ORDER NO:

WELL TYPE: 01  
WELL CATEGORY: Development  
JOB PURPOSE: Cement 5 1/2 Casing  
WELL PERMIT NO:  
WELL LOCATION: *Baume 146 Sinto*

INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE TRK # 114	20	mi			51.00	1020.00
578					Pump Charge Longstring	1	ec			1400.00	1400.00
221					Liquid KCL	21	gal			25.00	525.00
281					Mud Flush	500	gal			1.00	500.00
402					Cement Sizer	5	ec			55.00	275.00
403					Cement Basket	1	ec			200.00	200.00
406					Let's Down Plug + Baffle	1	ec			225.00	225.00
407					Insert Floof Shoe w/ALHIII	1	ec			275.00	275.00
419					Rotating Head Rental	1	ec			150.00	150.00

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: 4-9-10  
TIME SIGNED: 0600  
A.M.  P.M.

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

SURVEY

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: 3025.00  
TAX: 399.85  
TOTAL: 3424.85

Page # 2

SWIFT OPERATOR: *Proff*  
APPROVAL: *Proff*  
Thank You!

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



**JOB LOG**

**SWIFT Services, Inc.**

DATE 4-9-10 PAGE NO.

CUSTOMER American Warrior WELL NO. 2-31NE LEASE Schniepp JOB TYPE Cement 5 1/2 Casing TICKET NO. 18444

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							On Location TD-4233' Cent. 1,2,3,4,90 IP-4235' Basket-5 PS-4232' SS-42'
	0700							Start 5 1/2 Casing
	0845							Break Circulation
	0930	6 3/4	32	✓			200	Pump Mud Flush + KCL Flush
	0935	3	7	✓				Plug Rat Hole 30sks
	0940	4		✓			200	Start Cement 145sks @ 15.5ppg
	0955		35					Shut Down - Release Plug - Wash Pump Lines
	1000	6 3/4		✓			200	Start Displacement
		6 3/4	75	✓			400	Lift Cement
								Max Lift
	1015		99.7				1500	Land Plug - Release - Hold
								Wash Truck
	1045							Job Complete
								Thank you Brett, David + Jason





Services, Inc.

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

TICKET 17886

PAGE 1 OF 1

1. SERVICE LOCATIONS Ness City, KS	WELL/PROJECT NO. 2-31 NE	LEASE Schnepp	COUNTY/PARISH Ness	STATE KS	CITY Ness City	DATE 4-27-10	OWNER
2. TICKET TYPE SERVICE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO Kearns	ORDER NO.	WELL LOCATION Barnes 13E 5.10	
3. WELL TYPE OIL	WELL CATEGORY Development	JOB PURPOSE Cement Return 854954	WELL PERMIT NO.				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE TRK # 114	10	mi			5.00	50.00
577					Pump Charge	1	hr			850.00	850.00
581					Service Charge Cement	150	cks			1.66	225.00
582					Minimum Drillage Charge	1	hr			250.00	250.00
320					Swift Mdn-Dentyl Standard	150	lbs			15.00	2250.00
271					Floacle	38	lbs			1.50	57.00
290					D-Air	2	gal			35.00	70.00

**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: 4-27-10  
 TIME SIGNED: 1400  
 A.M.  P.M.

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

<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	<input type="checkbox"/> YES	<input type="checkbox"/> NO
<b>SURVEY</b>	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?	
	AGREE	UN-DECIDED
	DIS-AGREE	
	PAGE TOTAL	3752.00
	TAX 9%	125.98
	TOTAL	3877.98

SWIFT OPERATOR: B. H. Carson  
 APPROVAL: \_\_\_\_\_  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 4-27-10 PAGE NO.

CUSTOMER American Warrior Inc. WELL NO. 2-32NE LEASE Schniepp JOB TYPE Cement Retention 8" x 5 1/2" TICKET NO. 17886

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							On Location 6" x 5 1/2"
	1430			✓				500 Pressure 5 1/2" casing - Shut in
		1		✓				1200 Take Injection Rate
		1		✓				1400 Star Cement 75 sks @ 13.5 ppg
		2	23	✓				800 Cement 75 sks @ 12.2 ppg
	1530		55					600 Shut Down - Shut in
								Wash Truck
	1545							Job Complete
								Thank you Bert, Dave & Rob

# **Geological Report**

American Warrior, Inc.

**Schniepp #2-31NE**

720' FNL & 760' FEL

Sec. 31 T18s R21w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Schniepp #2-31NE  
720' FNL & 760' FEL  
Sec. 31 T18s R21w  
Ness County, Kansas  
API # 15-135-25027-0000

Drilling Contractor: Petromark Drilling, LLC Rig # 1

Geologist: Jason Alm

Spud Date: April 1, 2010

Completion Date: April 9, 2010

Elevation: 2119' Ground Level  
2125' Kelly Bushing

Directions: Bazine KS, ½ mi. East on Hwy 96, South into location.

Casing: 1386' 8 5/8" surface casing  
4231' 5 1/2" production casing

Samples: 10' wet and dry, 3500' to RTD

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "Jason Wellbrock"  
CNL/CNL, DIL

Drillstem Tests: Three, Trilobite Testing, Inc. "Brett Dickinson, Jeff Brown"

Problems: None

Remarks: None

## Formation Tops

<b>Formation</b>	<b>American Warrior, Inc.</b>
	<b>Schniepp #2-31NE</b>
	<b>Sec. 31 T18s R21w</b>
	<b>720' FNL &amp; 760' FEL</b>
Anhydrite	<b>1369', +756</b>
Base	<b>1404', +721</b>
Heebner	<b>3596', -1471</b>
Lansing	<b>3641', -1516</b>
BKc	<b>3962', -1837</b>
Pawnee	<b>4041', -1916</b>
Fort Scott	<b>4124', -1999</b>
Cherokee	<b>4140', -2015</b>
Mississippian	<b>4205', -2080</b>
Osage	<b>4215', -2090</b>
LTD	<b>4232', -2107</b>
RTD	<b>4233', -2108</b>

## Sample Zone Descriptions

- Cherokee Sand (4146', -2021):**      **Covered in DST #1**  
 Ss – Quartz, fine grained, well sorted, sub-rounded, well to fair cementation with poor inter-granular porosity, light to good oil stain with light saturation, show of free oil, light odor, light yellow cut fluorescents, 24 units hotwire.
- Mississippian Osage (4215', -2090):**      **Covered in DST #2,3**  
 Dolo – Δ – Fine sucrosic crystalline with fair to very good inter-crystalline and vuggy porosity, heavy chert, triptolitic, weathered with good vuggy porosity, heavy oil stain and saturation, strong show of free oil, strong odor, bright yellow cut fluorescents, 110-135 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Brett Dickinson, Jeff Brown"

**DST #1**

**Cherokee Sand**

Interval (4138' – 4162') Anchor Length 24'

IHP	– 2063 #	
IFP	– 30" – W.S.B.	16-18 #
ISI	– 30" – Dead	35 #
FFP	– 15" – Dead	18 #
FHP	– 2012 #	
BHT	– 105°F	

Recovery: 1' Mud

**DST #2**

**Mississippian Osage**

Interval (4218' – 4225') Anchor Length 7'

IHP	– 2080 #	
IFP	– 45" – Built to 1 ¼ in.	26-32 #
ISI	– 45" – Dead	1234 #
FFP	– 45" – Dead	27-37 #
FSI	– 45" – Dead	1163 #
FHP	– 2063 #	
BHT	– 114°F	

Recovery: 2' Mud

**DST #3**

**Mississippian Osage**

Interval (4219' – 4230') Anchor Length 11'

IHP	– 2109 #	
IFP	– 20" – B.O.B. 8 min.	30-91 #
ISI	– 30" – Built to 1 ¼ in.	1172 #
FFP	– 20" – B.O.B. 11 min.	99-134 #
FSI	– 30" – Built to 1 in.	1111 #
FHP	– 2037 #	
BHT	– 118°F	

Recovery:	186' GIP	
	217' CGO	Gravity: 40° API
	62' MGO	55% Oil
	62' HOGCWM	30% Oil, 10% Water

## Structural Comparison

<b>Formation</b>	<b>American Warrior, Inc. Schniepp #2-31NE Sec. 31 T18s R21w 720' FNL &amp; 760' FEL</b>	<b>D N B Drilling, Inc. Schniepp #1 Sec. 32 T18s R21w 2590' FNL &amp; 2640' FEL</b>	<b>American Warrior, Inc. Schniepp #1-31NE Sec. 31 T18s R21w 2150' FNL &amp; 900' FEL</b>
Anhydrite	<b>1369', +756</b>	1351', +771	1375', +756
Base	<b>1404', +721</b>	NA	1409', +722
Heebner	<b>3596', -1471</b>	3582', -1460	3600', -1469
Lansing	<b>3641', -1516</b>	3627', -1505	3646', -1515
BKc	<b>3962', -1837</b>	NA	3968', -1837
Pawnee	<b>4041', -1916</b>	NA	4047', -1916
Fort Scott	<b>4124', -1999</b>	4103', -1981	4129', -1998
Cherokee	<b>4140', -2015</b>	NA	4144', -2013
Mississippian	<b>4205', -2080</b>	4195', -2073	4220', -2089
Osage	<b>4215', -2090</b>	4199', -2077	4233', -2102

## Summary

The location for the Schniepp #2-31NE was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three drill stem tests were conducted one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had examined the decision was made to run 5 1/2 inch production casing to further evaluate the Schniepp #2-31NE well.

## Recommended Perforations

**Mississippian Osage:           (4215' – 4230')                           DST #2,3**

Respectfully Submitted,

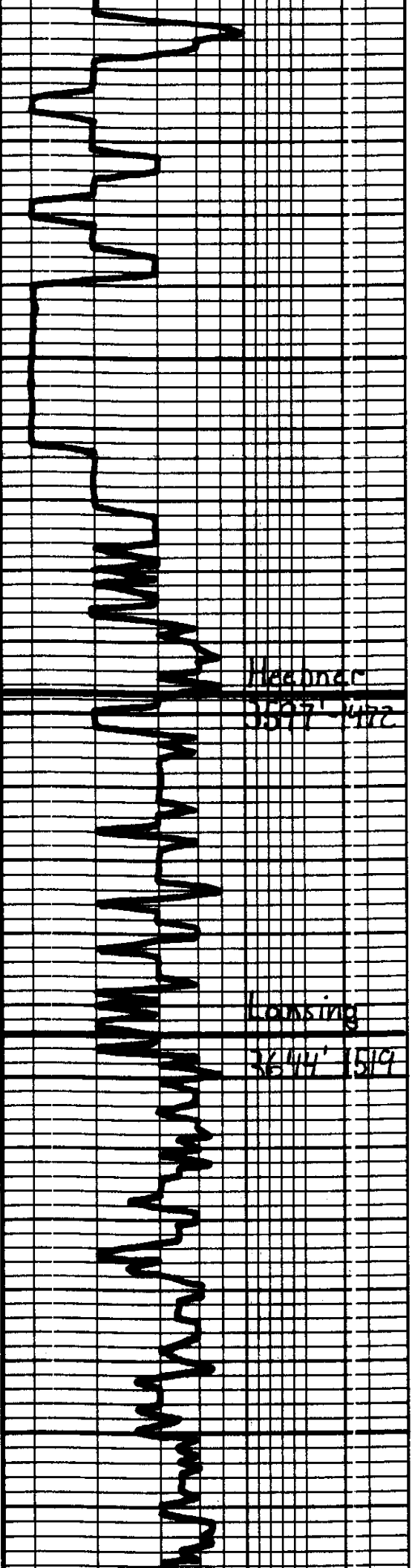
Jason Alm  
Hard Rock Consulting, Inc.







10  
20  
30  
40  
3550  
60  
70  
80  
90  
3600  
10  
20  
30  
40  
3650  
60  
70  
80  
90  
3700  
10



3597' 472  
3577' 472

3644' 519  
3644' 519

LS - Tan - Lt Gray, Fg x/la  
Fossil, Barren, Mottled

LS - alc

LS - alc, Chalky

LS - Tan - Lt Gray, Fg x/la  
Fossil, Chalky, Mottled

LS - Tan - Lt Gray, Fg - Substr.  
Mottled, Chalky, Dns,  
Barren

LS - alc, Dns

Sh - Blk, Lark

Sh - Gray - Ben - Gra

LS - Offwh - Lt Gray, Fg x/la  
Lut. prapinat. intercala. of Barren

Sh - Gray - Ben - Gra

LS - Tan - Lt Gray, Fg x/la  
Fossil, lut. pore, some of  
Barren

LS - alc, Dns

Sh - Gray - Ben

LS - Offwh - Tan, Fg x/la  
Fossil, lut. Fair some of  
Barren

Sh - Gray - Ben

LS - Offwh - Lt Gray, Fg x/la  
Fossil, lut. Fair some of  
Barren - Sh - Lt Gray

LS - alc, Muddy, Dns

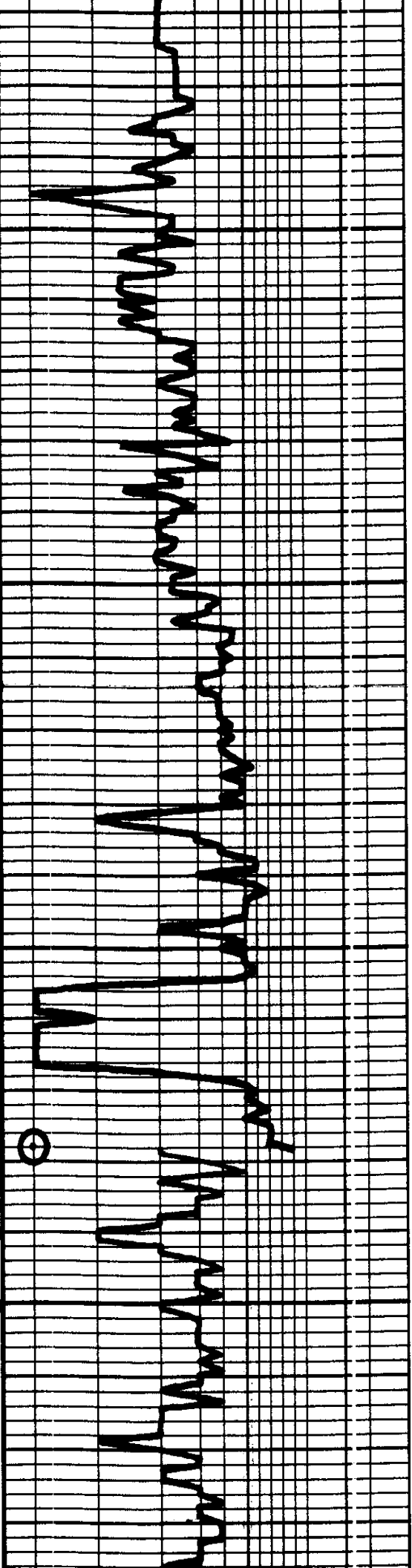
Sh - Dk Gray - Blk

Loc on location  
9:00 p.m. 4-5-10

Mud  
Vis. 41  
Wt. 8.7

Mud  
Vis. 46  
Wt. 8.8

20  
30  
40  
3750  
60  
70  
80  
90  
3800  
10  
20  
30  
40  
3850  
60  
70  
80  
90  
3900  
10  
20  
30



LS - Offsh. - Lt. Gray, Fx. cl. Fossiliferous, w/ pipe seam & Barren

LS - a/a

LS - Offsh. - Lt. Gray, Fx. cl. Fossiliferous, w/ pipe seam & Barren

LS - a/a

LS - Offsh. - Lt. Gray, Fx. cl. Sl. Fossiliferous, DNS

LS - a/a

Sh - Gray - Ben

Lg - Tan - Lt. Gray, Sub. sh. DNS

LS - a/a

Sh - Gray - Ben

LS - Offsh. - Tan, Fx. cl. Fossiliferous, w/ pipe seam & Barren

LS - Tan - Lt. Gray, Sh. Mottled, Sub. sh. DNS

LS - Offsh. - Lt. Gray, Fx. cl. Fossiliferous, w/ pipe seam & Barren, Sl. sh. Whit

Bit Top @ 3875'

LS - Offsh. - Lt. Gray, Fx. cl. Fossiliferous, DNS

Trip Tack

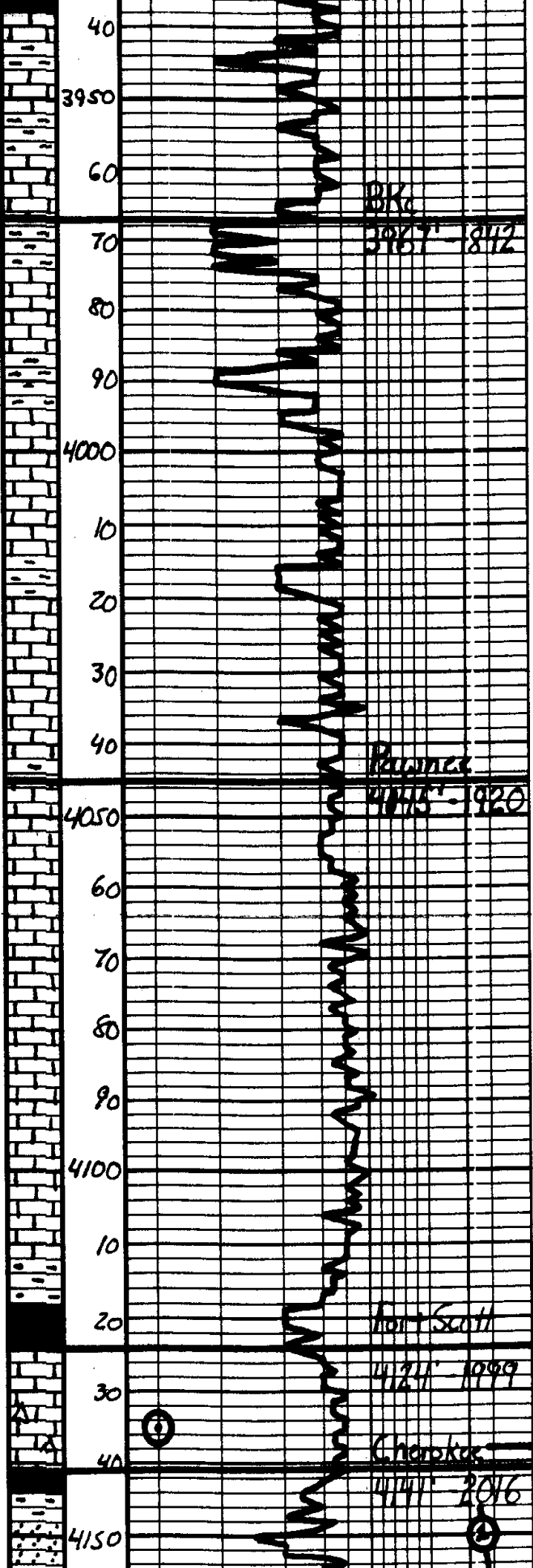
LS - Offsh. - Lt. Gray, Fx. cl. Fossiliferous, w/ pipe seam & Barren

LS - a/a, Masdy, DNS

Sh - Dark Gray - Blk

LS - Offsh. - Tan, Fx. cl. Sl. Fossiliferous, w/ pipe seam & Barren

6 Sh - Blk, Carb.



Sh. Gray - Blue  
 Ls. Tan. Lt. Gray. St. Mottled. Substr. DNS.  
 Ls. - a/a  
 Sh. Gray - Blue - Green  
 Ls. Tan. Lt. Gray. Substr. DNS.  
 Sh. Gray - Blue  
 Ls. Tan. Lt. Gray. Fr. - Substr. DNS. St. Whit. Gray  
 Ls. - a/a  
 Sh. Gray - Dark Gray - Green  
 Ls. Tan. Lt. Gray. Fr. - Substr. DNS.  
 Ls. Lt. Gray. Substr. DNS. St. Whit. Gray  
 Ls. Lt. Gray. Gray. Substr. DNS.  
 Ls. - a/a, St. Mottled, Shady - Dark Gray  
 Ls. - a/a  
 Sh. Blue Carb.  
 Ls. - Off. Lt. Tan. Fr. - Substr. Get 1/2 pipe sect. showing instead of. Mottled. Brown. Mottled. DNS.  
 Sh. Dark Gray - Blue  
 SS. - Off. Lt. - St. Brown. Fr. - Substr. Get 1/2 pipe sect. showing instead of. Cemented. Sub. - Brown. Mottled. DNS.

Mud  
 U.S. 48  
 Wt. 9.1

**DST#1**  
 Cherokee Sand  
 4138' - 4162'  
 30° 30' - 15"

IH 2063#  
 IF 16-18#  
 U.S. B.  
 LSI 35#  
 Dead  
 FF 18#  
 Dead  
 RH 2012#  
 BHT 105#

Recovery:  
 1' mud

38  
 6  
 24







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior

**Schniepp #2-31**

Garden City Ks  
67846 PO Box 399

**Sec31Twp18sRge21w**

ATTN: Jason Alm

Job Ticket: 38531

**DST#: 1**

Test Start: 2010.04.07 @ 11:50:54

## GENERAL INFORMATION:

Formation: **Cher.Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:54

Time Test Ended: 17:10:54

Test Type: Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 4138.00 ft (KB) To 4162.00 ft (KB) (TVD)**

Reference Elevations: 2125.00 ft (KB)

Total Depth: 4162.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 6.00 ft

**Serial #: 8319**

**Inside**

Press @ Run Depth: 18.45 psig @ 4144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.07

End Date:

2010.04.07

Last Calib.:

2010.04.07

Start Time:

11:50:59

End Time:

17:10:53

Time On Btm:

2010.04.07 @ 14:06:24

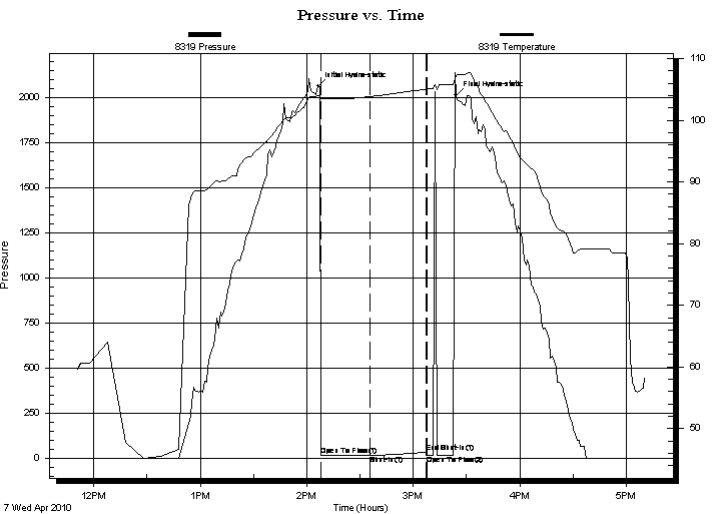
Time Off Btm:

2010.04.07 @ 15:23:54

**TEST COMMENT:** IF-very weak surface blow died in 23min

ISI-No blow

FF-No blow Flushed tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.80	103.95	Initial Hydro-static
2	16.51	103.55	Open To Flow (1)
29	18.45	103.83	Shut-In(1)
61	35.19	105.06	End Shut-In(1)
62	18.03	105.07	Open To Flow (2)
78	2012.33	107.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**Schniepp #2-31**

Garden City Ks  
67846 PO Box 399

**Sec31Twp18sRge21w**

Job Ticket: 38531

**DST#: 1**

ATTN: Jason Alm

Test Start: 2010.04.07 @ 11:50:54

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

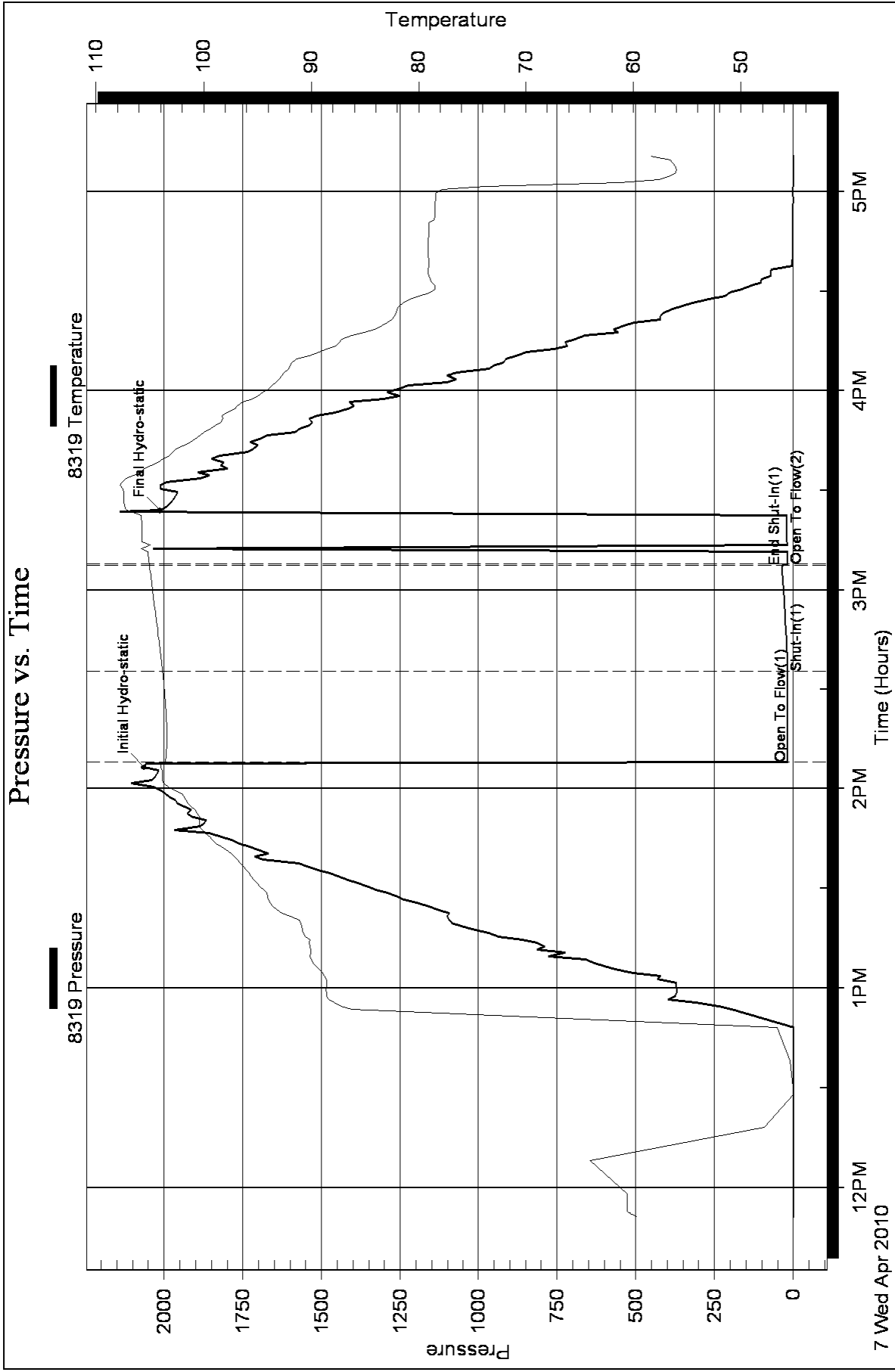
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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# DRILL STEM TEST REPORT

American Warrior

Garden City Ks  
67846 PO Box 399

ATTN: Jason Alm

**Schniepp #2-31**

**Sec31Twp18sRge21w**

Job Ticket: 38492

**DST#: 2**

Test Start: 2010.04.08 @ 01:24:13

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:28:13

Time Test Ended: 08:56:13

Test Type: Bottom Hole

Tester: Jeff Brown

Unit No: 47

**Interval: 4218.00 ft (KB) To 4225.00 ft (KB) (TVD)**

Reference Elevations: 2125.00 ft (KB)

Total Depth: 4225.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8319 Inside**

Press @ Run Depth: 37.00 psig @ 4222.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.08

End Date:

2010.04.08

Last Calib.:

2010.04.08

Start Time:

01:24:18

End Time:

08:56:12

Time On Btm:

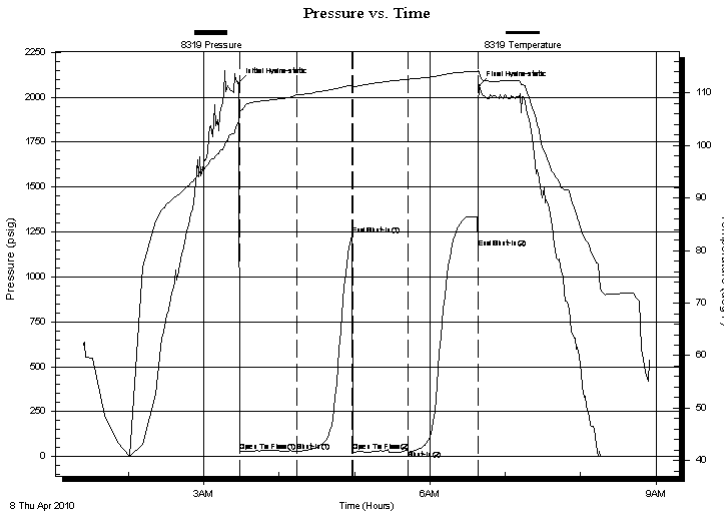
2010.04.08 @ 03:27:43

Time Off Btm:

2010.04.08 @ 06:39:12

**TEST COMMENT:** IFP-Weak blow built to 1 1/4 in  
ISI-Dead no blow back  
FFP-Dead no blow  
FSI-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.74	104.46	Initial Hydro-static
1	26.59	105.83	Open To Flow (1)
46	31.88	109.60	Shut-In(1)
90	1234.38	111.48	End Shut-In(1)
91	27.79	111.20	Open To Flow (2)
135	37.00	112.62	Shut-In(2)
191	1163.15	114.12	End Shut-In(2)
192	2063.22	114.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**Schniepp #2-31**

Garden City Ks  
67846 PO Box 399

**Sec31Twp18sRge21w**

Job Ticket: 38492

**DST#: 2**

ATTN: Jason Alm

Test Start: 2010.04.08 @ 01:24:13

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

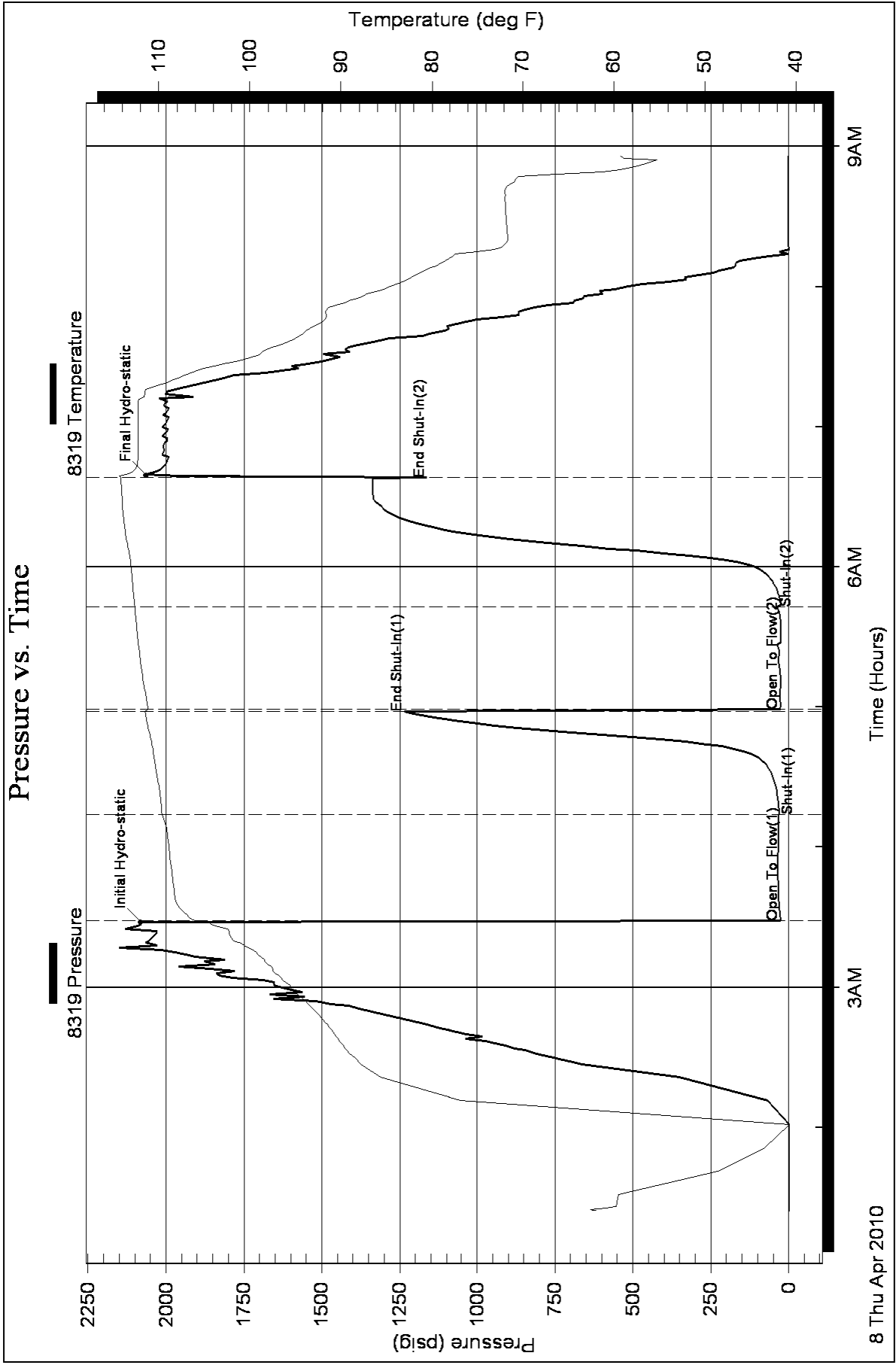
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior

Garden City Ks  
67846 PO Box 399

ATTN: Jason Alm

**Schniepp #2-31**

**Sec31Twp18sRge21w**

Job Ticket: 38493

**DST#: 3**

Test Start: 2010.04.08 @ 16:27:29

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:59

Time Test Ended: 22:32:59

Test Type: Bottom Hole

Tester: Brett Dickinson

Unit No: 47

**Interval: 4219.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Reference Elevations: 2125.00 ft (KB)

Total Depth: 4162.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8319 Inside**

Press @ Run Depth: 134.27 psig @ 4220.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.08

End Date: 2010.04.08

Last Calib.: 2010.04.08

Start Time: 16:27:34

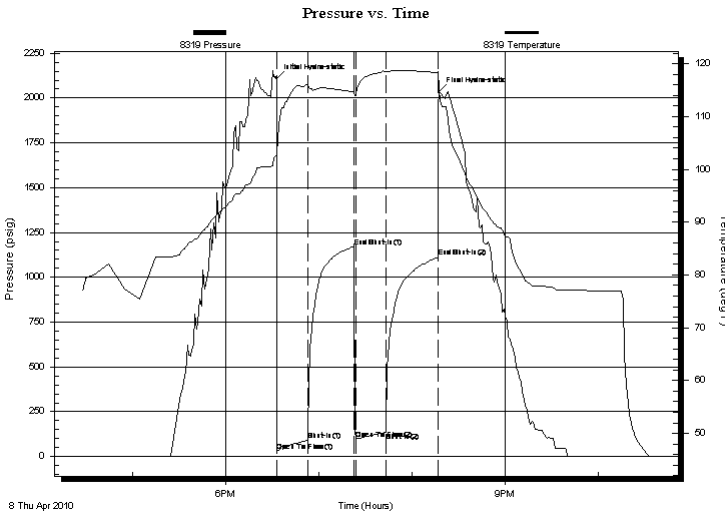
End Time: 22:32:58

Time On Btm: 2010.04.08 @ 18:32:29

Time Off Btm: 2010.04.08 @ 20:17:29

**TEST COMMENT:** IFP-Strong blow BOB in 8 min  
ISI-Weak blow back Built to 1 1/4 in died back to 1 in  
FFP-Strong blow BOB in 11 min  
FSI-Weak blow back built to 1 in

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.34	102.73	Initial Hydro-static
1	29.61	102.91	Open To Flow (1)
20	90.74	116.05	Shut-In(1)
50	1172.01	114.62	End Shut-In(1)
51	99.08	113.89	Open To Flow (2)
71	134.27	118.55	Shut-In(2)
104	1111.69	118.31	End Shut-In(2)
105	2036.87	115.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
217.00	Clean Oil	1.91
62.00	MCGO25%M20%G55%O	0.87
62.00	HGOCWM10%G30%O10%W50%M	0.87
0.00	186 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**Schniepp #2-31**

Garden City Ks  
67846 PO Box 399

**Sec31Twp18sRge21w**

Job Ticket: 38493

**DST#: 3**

ATTN: Jason Alm

Test Start: 2010.04.08 @ 16:27:29

## 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: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
217.00	Clean Oil	1.914
62.00	MCGO25%M20%G55%O	0.870
62.00	HGOCWM10%G30%O10%W50%M	0.870
0.00	186 GIP	0.000

Total Length: 341.00 ft

Total Volume: 3.654 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

