

### Kansas Corporation Commission Oil & Gas Conservation Division

### 1048214

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
ENHR Permit #:	County: Permit #:
GSW Permit #:	. 5
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	

### **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:

Side Two



Operator Name:			Lease Name: _			_ Well #:	
Sec Twp	S. R	East West	County:				
time tool open and clo	osed, flowing and shu es if gas to surface te	d base of formations pe t-in pressures, whether st, along with final char- well site report.	shut-in pressure rea	ached static level,	hydrostatic press	sures, bottom h	nole temperature, fluid
Drill Stem Tests Taker (Attach Additional		☐ Yes ☐ No		_og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geo	logical Survey	Yes No	Nan	ne		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy		Yes No Yes No Yes No					
List All E. Logs Run:							
				lew Used			
D (0):	Size Hole	Report all strings set Size Casing	t-conductor, surface, in Weight	termediate, producti Setting	on, etc.  Type of	# Sacks	Type and Percent
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.	Depth	Cement	Used	Additives
		ADDITIONA	U OFMENITING (OO	UEEZE DEOODD			
Purpose:	Depth		AL CEMENTING / SQ	UEEZE RECORD			
Perforate	Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
Shots Per Foot	PERFORATI	ON RECORD - Bridge Plu	ugs Set/Type		cture, Shot, Cement		
	Specify	Footage of Each Interval Pe	errorated	(AI	mount and Kind of Ma	ateriai Used)	Depth
TUDING DECORD.	Si-o.	Cat Atı	Packer At:	Lines Duni			
TUBING RECORD:	Size:	Set At:	Facker At.	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	HR. Producing Me		Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wa	ter B	bls. (	Gas-Oil Ratio	Gravity
		·					
	ON OF GAS:		METHOD OF COMPL			PRODUCTIO	ON INTERVAL:
Vented Solo		Open Hole			nmingled mit ACO-4)		
(If vented, Sui	bmit ACO-18.)	Other (Specify)					

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Schniepp 2-31NE
Doc ID	1048214

### Tops

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



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пскет 17812

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/00-/90-Z3VU	0	P.O. BOX 466	VICES, INC.		REMIT PAYMENT TO:			COMENT		4	SWOTH MULTE- DELETH STANDED								DESCRIPTION		83/8 SURFACE	OB PURPOSE	RIG NAME/NO.	NESS	COUNTY/PARISH
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SWIFT OPERATOR ASON DATLIFF

MER ACCEPTANCE OF MATERIALS AND SERVICES The cus

Thank You!

JO	В	L	0	G

SWIFT Services, Inc.

DATE 2 APRIL

TICKET NO. 17812 CUSTOMER AMERICAN WARRIDA SCHUIEPP 2-3INE CEMENT 85/8 WELL NO. VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS 2040 ON LOCATION START PIPE IN WELL 2230 898-23# TDE 1387 SHOE ST 16' PIPESET@ 1386 CENTRALIZERS 1,5,11,24 0010 CIRCULATE. 0000 la. 12 Pamp MUD FLUSH 20 Lo FUMP KCL FLUSH mix 1605Ks € 11.8 pp6 0033 6 60,5 mix 150 sks@12.5ppg. MIX 100 SKS@ 13.5 PPG. MIX SDSKS@ 14.5 PPG. 13 10 RELEASE PLUG. 205889 START DISPLACEMENT CIRCULATE 4DSKS TOPIN. LAND PLUG 0114 WASH TRUCKUP. JOB COMPLETE 0200 THANKS #110 JASON, ROGER, LANE, WAYNE



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TICKET 18444

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WE UNDERSTOOD AND	SURVEY OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			1. f. H	Ac				\ 	0 2		
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SWIFT OPERATOR

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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges

DATE SIGNED

TIME SIGNED

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NESS CITY, KS 67560

785-798-2300

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

SWIFT SERVICES, INC.

WE UNDERSTOOD AND
MET YOUR NEEDS?
OUR SERVICE WAS
PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMEN AND PERFORMED JOB CALCULATIONS

X

3998 | 50

ARE YOU SATISFIED WITH OUR SERVICE?

☐ CUSTOMER DID NOT WISH TO RESPOND

TOTAL

Thank You!

P.O. BOX 466

LIMITED WARRANTY provisions.



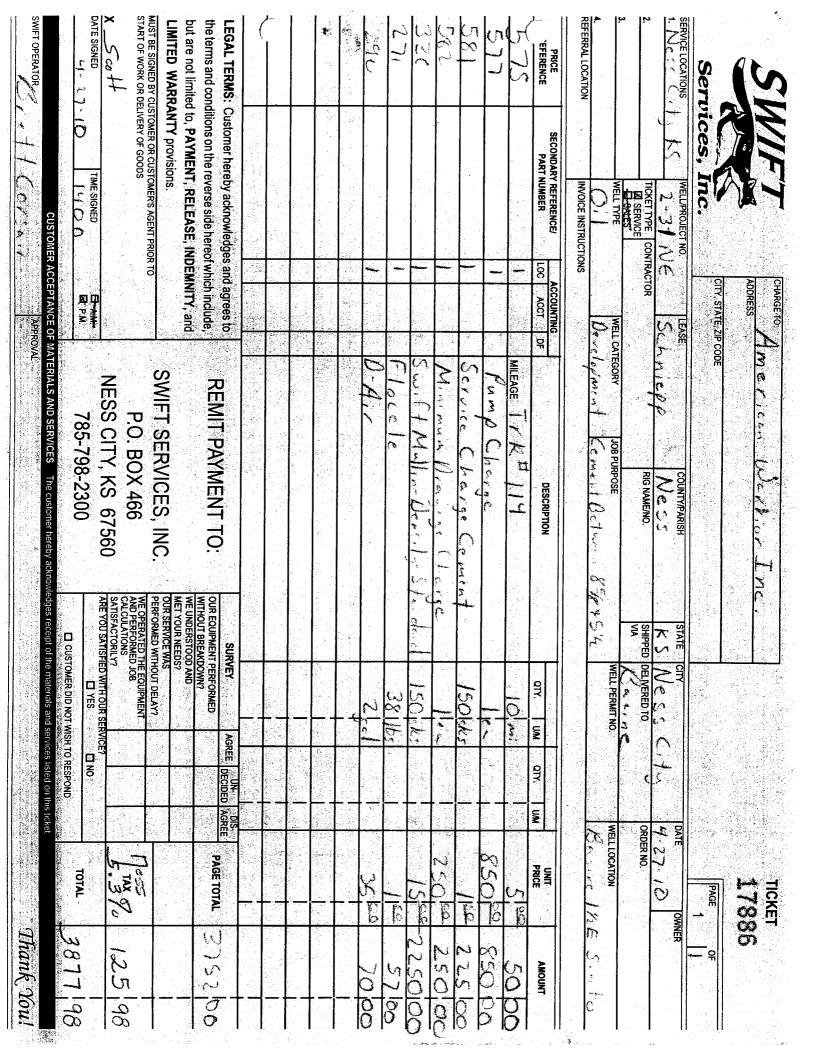
## TICKET CONTINUATION

No. 18444

Stander Cament   175 kg   1250   12	785	25										292	290	284	283	276	325	Seculces, Inc.
Standard Cement 175 kg  Floce le 49/165  Sailt 9001165  D-Air 25165  Halad 322 125165  BERNOCEOLUMBE CORENIUS OURCERT 775							1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の		・ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									Off:: 785-798-2300
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	250																12	100

B LC			WELL NO.					ICES, INC. DATE 4/-9 10 PAGE
Me	, ican L	DALVION	2-31	NE		Schni		JOB TYPE Coring TICKET NO. 18444
ART O.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUI	APS C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0600	:						On Location
								TO-4233' Cent. 1, 2, 3, 4, 80
								TP-4235' Basket. 5
								PS- 4132'
					10			55-471
4	0700							Start 5 1/2 Casing
					*			
	0845		9-3-3					Break Circulation
	J936	674	32	V			२क्ठ	Pump Mud Flush + KCLFlush
	0935	3	7	سر ا				Plug Rat Hole 30sks
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7.



DATE 4- 7710 PAGE NO

ustomer 4 m ex	ican lu	arrier Inc	WELL NO.	NE		Schare	Ou.	JOB TYPE - Ment Botwar 8 th x 17886
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUM	PS C	PRESSUR TUBING		DESCRIPTION OF OPERATION AND MATERIALS
	1400					1	3	On Location
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## **Geological Report**

American Warrior, Inc.
Schniepp #2-31NE
720' FNL & 760' FEL
Sec. 31 T18s R21w
Ness County, Kansas



American Warrior, Inc.

### **General 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 Drillling, 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.

10' wet and dry, 3500' to RTD

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

Drilling Time: 3500' to RTD

Well Data:

Casing:

Samples:

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**

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

### **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 –  $\Delta$  – Fine sucrosic crystalline with fair to very good intercrystalline 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 <u>Mississippian Osage</u>

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 <u>Mississippian Osage</u>

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**

	American Warrior, Inc.	D N B Drilling, Inc.		American Warrior, Inc.	
	Schniepp #2-31NE	Schniepp #1		Schniepp #1-31NE	
	Sec. 31 T18s R21w	Sec. 32 T18s R21w		Sec. 31 T18s R21w	
Formation	720' FNL & 760' FEL	2590' FNL & 2640' FEL		2150' FNL & 900' FEL	
Anhydrite	1369', +756	1351', +771	<b>(-15)</b>	1375', +756	FL
Base	1404', +721	NA	NA	1409', +722	<b>(-1)</b>
Heebner	3596', -1471	3582', -1460	<b>(-11)</b>	3600', -1469	(-2)
Lansing	3641', -1516	3627', -1505	<b>(-11)</b>	3646', -1515	<b>(-1)</b>
BKc	3962', -1837	NA	NA	3968', -1837	FL
Pawnee	4041', -1916	NA	NA	4047', -1916	FL
Fort Scott	4124', -1999	4103', -1981	<b>(-18)</b>	4129', -1998	<b>(-1)</b>
Cherokee	4140', -2015	NA	NA	4144', -2013	(-2)
Mississippian	4205', -2080	4195', -2073	(-7)	4220', -2089	(+9)
Osage	4215', -2090	4199', -2077	<b>(-13)</b>	4233', -2102	(+12)

### **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.

# Hard Rock Consulting, Inc.

Jason Alm Petroleum Geologist Hays, KS 67601 P.O. Box 1260

# APT#15-135-25027-0000

LEASE Sc	OPERATOR _		
hnicap	merican	DRILLIN	
LEASE Schnicpp WELL NO. 2-31/1/E	OPERATOR American Warrior Inc	DRILLING TIME AND SAMPLE LOG	GEOLOGIST'S REPORT
NE	Inc.	IPLE LOG	8

SEC. 31 COUNTY Ness LOCATION 7ZO FNL & 760 FE . ⊒\P:\_ 185 STATE RGE ZIW Konsos

FIELD Wildcat

COMM: 4-1-10 RTD 4233 MUD UP 3400' SAMPLES SAVED FROM CONTRACTOR \_ GEOLOGICAL SUPERVISION FROM SAMPLES DAMINED FROM DRILLING TIME KEPT FROM Remark Deilling, Lls 3500 10 -- COMPL 3500 3500 3700,70 . | 4232 | | | | RTO . 경 Rig #1 RTO RTO RID

- TYPE MUD ...

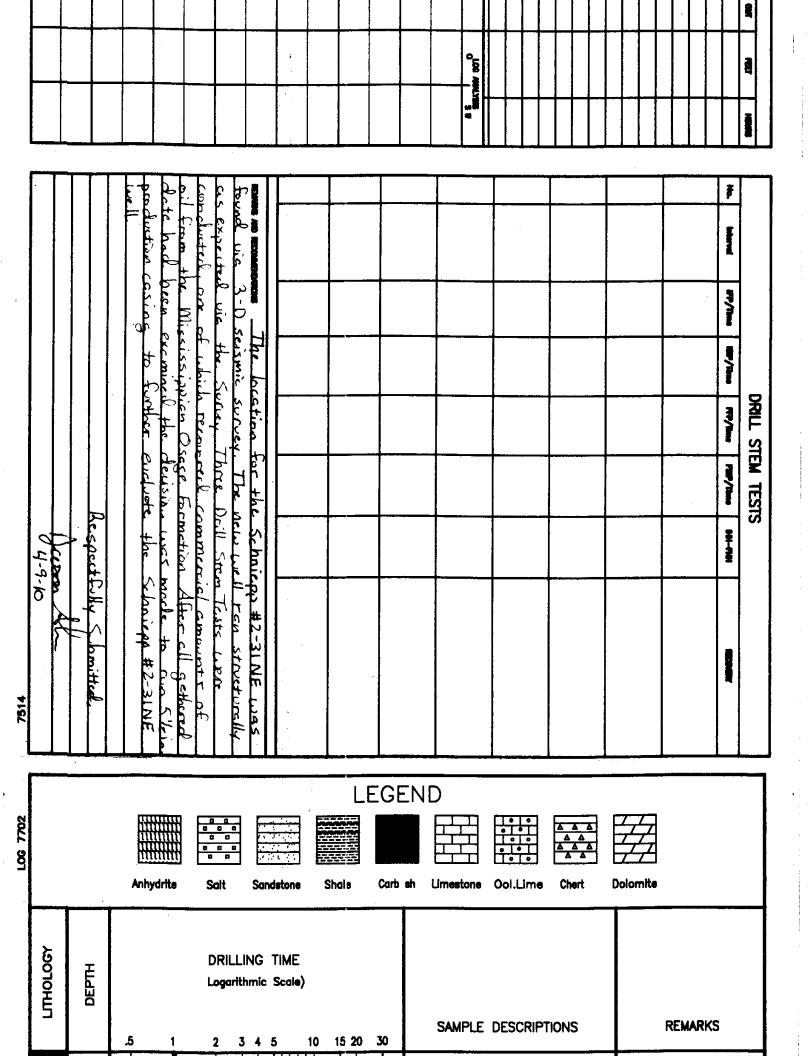
Chemics

FORMATION	TOP LOG DATUM	TOP DATUM	STRUCT.
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Rese	1404 + 721	1903 + 722	- 1
Her piner	35% - 1471	3597-1412	2-
Lebsine	3641-1516	3644-1516	7 -
BKC 0	3962'-1837	3567-1842	73
Polismer		H045'-1920	73
Fort Scott	4124' - 1599	HIZH'- 1999	1-
Cherokec	7170 - 2012	4141, - 2016	-2
Mississippien	4705'-7080	H210' - 2085	184
Osose	4215'-20 <del>9</del> 0	4218 - 20931	<b>≯1</b> 2
TatePhenth	4232'-2107	4233' -2108	
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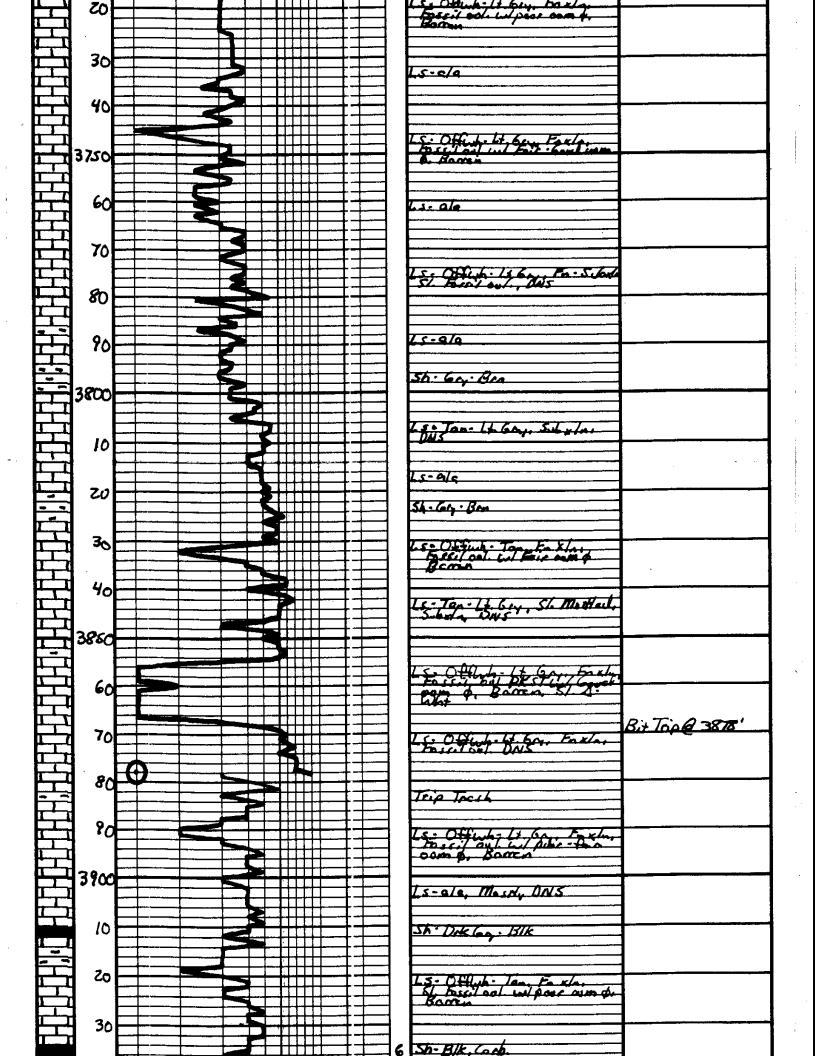
REFERENCE WELL FOR STRUCTURAL COMPARISON Schniepp #2-31 NE ZISO'FNL & SOO'FEL Sec. 31 TIRS RZIW America Warrier Tru

718s R21w	ELECTRICAL SURVEYS  LOG TECH  CNL/COL, OIL	CASING RECORD SURFACE 8 % @ 1386' PRODUCTION 5 1/2 1/2 2/2 31'	ELEVATION  KB_ZIZS'  OF  GL_ZII9'  Measurements Are All  From Kally Bushins
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American Warrior

Schniepp #2-31

Job Ticket: 38531

Garden City Ks 67846 PO Box 399

ATTN: Jason Alm

Sec31Twp18sRge21w

DST#: 1

Test Start: 2010.04.07 @ 11:50:54

Unit No:

**GENERAL INFORMATION:** 

Formation: Cher.Sand

Deviated: No Whipstock: ft (KB) Test Type: Bottom Hole
Time Tool Opened: 14:07:54
Tester: Brett Dickinson

Time Test Ended: 17:10:54

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 @ RunDepth: 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

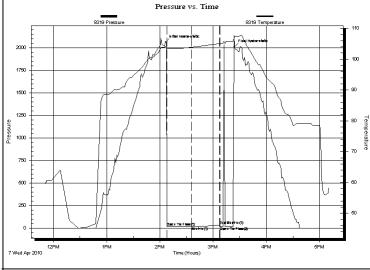
 Start Time:
 11:50:59
 End Time:
 17:10:53
 Time On Btm:
 2010.04.07 @ 14:06:24

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

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.00
<b>-</b>		

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

Trilobite Testing, Inc Ref. No: 38531 Printed: 2010.04.08 @ 09:16:55 Page 1



**FLUID SUMMARY** 

American Warrior

Schniepp #2-31

Garden City Ks 67846 PO Box 399 Sec31Twp18sRge21w

Job Ticket: 38531

Serial #:

DST#: 1

ATTN: Jason Alm

Test Start: 2010.04.07 @ 11:50:54

### **Mud and Cushion Information**

9.99 in<sup>3</sup>

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 58.00 sec/qt Cushion Volume: bbl

Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 9100.00 ppm Filter Cake: inches

### **Recovery Information**

Water Loss:

### Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.005

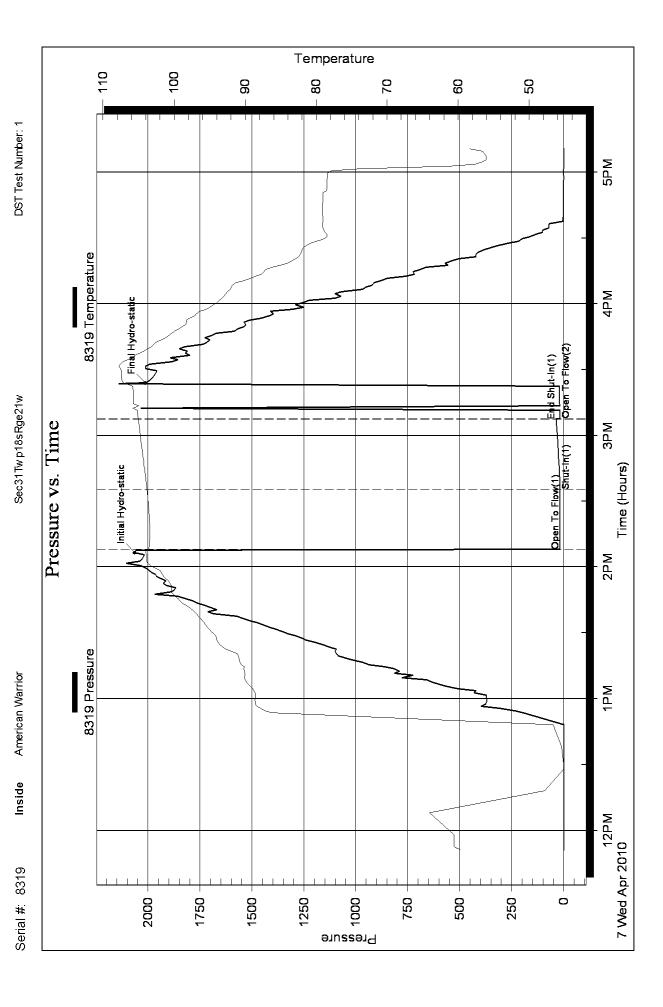
Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 38531 Printed: 2010.04.08 @ 09:16:56 Page 2



Printed: 2010.04.08 @ 09:16:57 Page 3 38531 Ref. No: Trilobite Testing, Inc



American Warrior

Schniepp #2-31

Garden City Ks 67846 PO Box 399 Sec31Twp18sRge21w

Job Ticket: 38492

DST#: 2

2125.00 ft (KB)

ATTN: Jason Alm Test Start: 2010.04.08 @ 01:24:13

### **GENERAL INFORMATION:**

Formation: Miss

Total Depth:

Deviated: No Whipstock: ft (KB) Test Type: Bottom Hole
Time Tool Opened: 03:28:13 Tester: Jeff Brown

Time Test Ended: 08:56:13 Unit No: 47

Interval: 4218.00 ft (KB) To 4225.00 ft (KB) (TVD) Reference Elevations:

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 8319 Inside

Press@RunDepth: 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

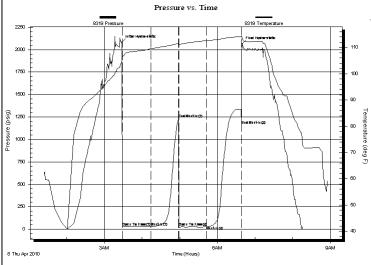
 Start Time:
 01:24:18
 End Time:
 08:56:12
 Time On Btm:
 2010.04.08 @ 03:27:43

Time Off Btm: 2010.04.08 @ 06:39:12

TEST COMMENT: IFP-Weak blow built to 1 1/4 in

4225.00 ft (KB) (TVD)

ISI-Dead no blow back FFP-Dead no blow FSI-Dead no blow back



	PRESSURE SUMMARY				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	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)	
7	90	1234.38	111.48	End Shut-In(1)	
empe	91	27.79	111.20	Open To Flow (2)	
rature	135	37.00	112.62	Shut-In(2)	
Temperature (deg F;	191	1163.15	114.12	End Shut-In(2)	
Ð	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 Ref. No: 38492 Printed: 2010.04.08 @ 09:15:08 Page 1



**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 ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 58.00 sec/qt Cushion Volume: bbl

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

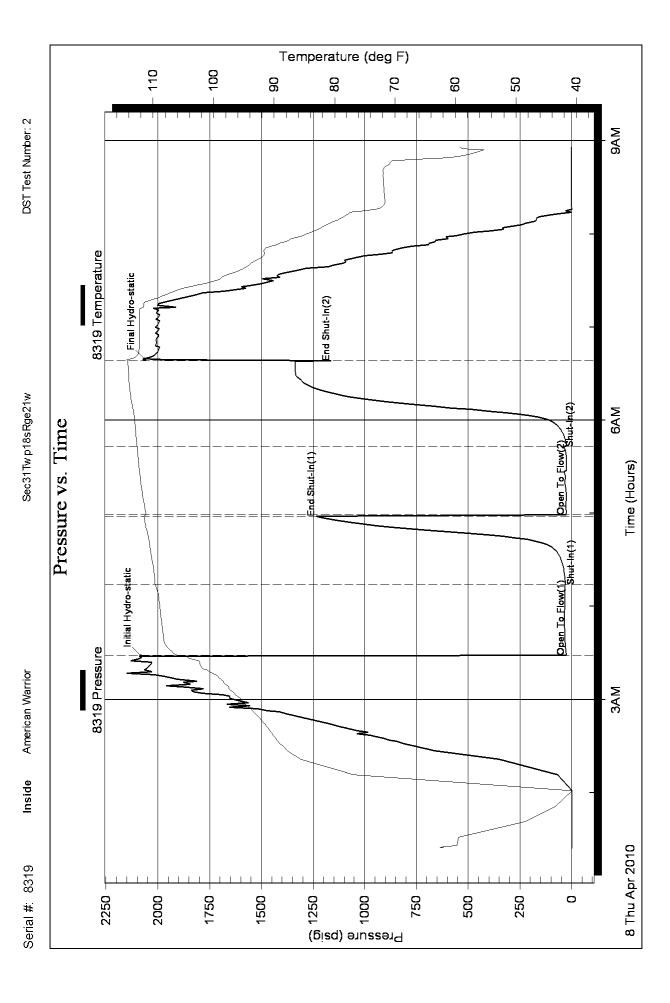
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

as Bombs: 0 Serial #:

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American Warrior

rden City Ks Sec31Twp18sRge21w

Garden City Ks 67846 PO Box 399

ATTN: Jason Alm

Job Ticket: 38493 **DST#: 3** 

Schniepp #2-31

Unit No:

Test Start: 2010.04.08 @ 16:27:29

### **GENERAL INFORMATION:**

Formation: Miss

Deviated: No Whipstock: ft (KB) Test Type: Bottom Hole
Time Tool Opened: 18:32:59
Tester: Brett Dickinson

Time Test Ended: 22:32:59

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

Total Depth: 4162.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2125.00 ft (KB)

2119.00 ft (CF) KB to GR/CF: 6.00 ft

Serial #: 8319 Inside

Press@RunDepth: 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

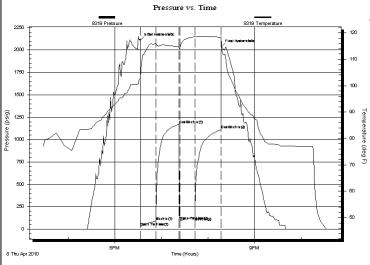
 Start Time:
 16:27:34
 End Time:
 22:32:58
 Time On Btm:
 2010.04.08 @ 18:32:29

 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

Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	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)
empe	51	99.08	113.89	Open To Flow (2)
Temperature (deg	71	134.27	118.55	Shut-In(2)
(deg	104	1111.69	118.31	End Shut-In(2)
J	105	2036.87	115.21	Final Hydro-static
				-

### Recovery

Length (ft)	Description	Volume (bbl)
217.00	217.00 Clean Oil	
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)
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**FLUID SUMMARY** 

American Warrior

Schniepp #2-31

Garden City Ks 67846 PO Box 399 Sec31Twp18sRge21w

Job Ticket: 38493

Serial #:

DST#: 3

ATTN: Jason Alm

Test Start: 2010.04.08 @ 16:27:29

### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 54.00 sec/qt Cushion Volume: bbl

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 bbl
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

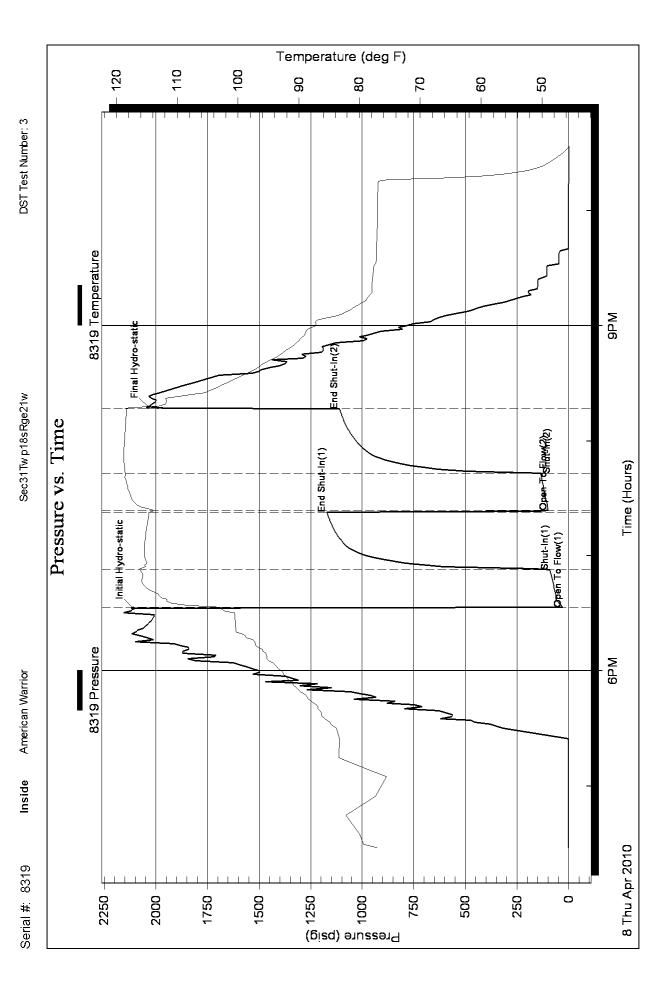
Total Length: 341.00 ft Total Volume: 3.654 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

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