



KANSAS CORPORATION COMMISSION 1070129  
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 # 4058  
Name: American Warrior, Inc.  
Address 1: 3118 Cummings Rd  
Address 2: PO BOX 399  
City: GARDEN CITY State: KS Zip: 67846 + \_\_\_\_\_  
Contact Person: Scott Corsair  
Phone: ( 785 ) 398-2270  
CONTRACTOR: License # 33323  
Name: Petromark Drilling, LLC  
Wellsite Geologist: Jason Alm  
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 #: \_\_\_\_\_

03/26/2011    04/04/2011    05/17/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-135-25199-00-00

Spot Description: \_\_\_\_\_  
SE NW NW NE Sec. 21 Twp. 18 S. R. 22  East  West  
538 Feet from  North /  South Line of Section  
2114 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Ness

Lease Name: Larry Stieben Well #: 2-21

Field Name: Walnut Hill

Producing Formation: NA

Elevation: Ground: 2227 Kelly Bushing: 2233

Total Depth: 4468 Plug Back Total Depth: 4416

Amount of Surface Pipe Set and Cemented at: 223 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1517 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: 25000 ppm Fluid volume: 180 bbls

Dewatering method used: Evaporated

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: Deanna Gerlach Date: 12/13/2011



1070129

Operator Name: American Warrior, Inc. Lease Name: Larry Stieben Well #: 2-21  
 Sec. 21 Twp. 18 S. R. 22  East  West County: Ness

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Dual Induction, Dual Compensated Porosity, Microresistivity Borehole Compensated Sonic, Dual Receiver Cement Bond	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	223	Common	160	2%CC, 3% Gel
Production	7.875	5.5	15.5	4464	EA-2	175	1/4# Flocele

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
4	4320-4330	500 gallons MOD 202	4320-4330
		5000# Sand Frac	4320-4330

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) (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	Larry Stieben 2-21
Doc ID	1070129

Tops

Anhydrite	1523	710
Heebner	3692	-1459
Lansing	3738	-1505
BKC	4058	-1825
Pawnee	4136	-1503
Ft. Scott	4224	-1991
Cherokee	4244	-2011
Mississippian	4410	-2177
Gilmore City	4444	-2211
LTD	4468	-2235

# ALLIED CEMENTING CO., LLC. 038734

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Acres 2... 1st

DATE <u>3-20-11</u>	SEC. <u>30</u>	TWP. <u>18</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:15 am</u>	JOB FINISH <u>11:45</u>
LEASE <u>Pablo</u>		WELL # <u>4-30</u>		LOCATION <u>Barne Xs Just to Rd AA 3 north</u>		COUNTY	STATE
OLD OR NEW (Circle one) <u>NEW</u>				<u>Just into</u>			

CONTRACTOR Petromark Drilling  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D. 223  
CASING SIZE 8 3/8 DEPTH 222  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15 FT  
PERFS.  
DISPLACEMENT

EQUIPMENT  
PUMP TRUCK CEMENTER Bob Oc  
# 366 HELPER Bob Oc  
BULK TRUCK  
# 341 DRIVER Mark Russell  
BULK TRUCK  
# DRIVER

REMARKS:  
Pipe on bottom heat circulation with cog mud  
Shut down hook up to cement line (can 566)  
Spent min 160 sec Class A 3% cc 2% gel  
Displace 12.5 bbls fresh water that cement did circulate

OWNER American Well Co  
CEMENT  
AMOUNT ORDERED 160 sq can 3% cc 2% gel

COMMON <u>160 can</u>	@	
POZMIX	@	
GEL <u>3 gal</u>	@	
CHLORIDE <u>6 gal</u>	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		
TOTAL		

SERVICE  
DEPTH OF JOB 222  
PUMP TRUCK CHARGE  
EXTRA FOOTAGE @  
MILEAGE @  
MANIFOLD @  
@  
@  
TOTAL

CHARGE TO: American Well Co  
STREET  
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT  
@  
@  
@  
@  
@  
TOTAL

To Allied Cementing Co., 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.

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

PRINTED NAME Jerry Duer  
SIGNATURE Jerry Duer



CHARGE TO: **AMERICAN WATER INC.**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
20655

PAGE 1 OF 2

SERVICE LOCATIONS: 1. **NESS CITY, KS**

WELL/PROJECT NO.: **2-21** LEASE: **LARRY STEIBEN** COUNTY/PARISH: **NESS** STATE: **Ks** CITY: DATE: **4-4-11** OWNER: **SAME**

TICKET TYPE:  SERVICE  SALES CONTRACTOR: **PETROMARK DRUG #1** RIG NAME/NO.: SHIPPED VIA: **CT** DELIVERED TO: **LOCATION** ORDER NO.:

WELL TYPE: **Oil** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **5 1/2" LONGSTREAS** WELL PERMIT NO.: WELL LOCATION: **BOONE, KS - 3W, 2W, W, W2W**

REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			UM		UM	
575		1			MILEAGE # 110	20	ME		5.00	100.00
578		1			PUMP CHARGE	1	JOB	4464	14.00	1400.00
221		1			LIQUID KCL	2	GAL		25.00	50.00
281		1			MUD FLUSH	500	GAL		1.00	500.00
402		1			CENTRALIZERS	8	EA	5'6"	65.00	520.00
403		1			CEMENT BASKETS	2	EA		230.00	460.00
404		1			PORT COLLAR TOPT # 71	1	EA	1517	2100.00	2100.00
406		1			LATCH DOWN PLUG - BAFFLE	1	EA		225.00	225.00
407		1			INSERT FLOAT SHOE w/AUTO FILL	1	EA		300.00	300.00
419		1			ROTATING HEAD RENTAL	1	JOB		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.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				#1	5805.00
WE UNDERSTOOD AND MET YOUR NEEDS?				#2	4070.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub-total	9875.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	495.34
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	10,370.34

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

X **Scott**  
 DATE SIGNED: **4-4-11** TIME SIGNED: **1930**  A.M.  P.M.



JOB LOG

SWIFT Services, Inc.

DATE 4-4-11 PAGE NO. 1

CUSTOMER AMERICAN WIRELINE TX WELL NO. 2-21 LEASE LARRY STEWEN JOB TYPE 5/2 LOGS/26 TICKET NO. 20655

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1930							ON LOCATION
	2030							START 5/2" CASING IN WELL
								TD-4468 SET = 4464
								TP-4464 5/2" 15.5
								ST-42'
								CENTERS - 1, 2, 3, 4, 5, 6, 7, 70
								CMT BSRS - 8, 71
								POST COLAR = 1517' TOP JT = 71
	2025							DROP BALL - CIRCULATE ROTATE
	2250	6	12		✓		400	PUMP 500 GAL MUDFLUSH "
	2252	6	20		✓		400	PUMP 20 BRIS KCL - FLUSH "
	2257		7					PLUG RH (3050)
	2300	4	35		✓		250	MIX CEMENT (145 SLS EA-2 @ 15.5 PPG) "
	2310							WASH OUT PUMP - LINES
	2312							RELEASE LATCH DOWN PLUG
	2315	7	0		✓			DISPLACE PLUG "
	2330	6	105.2				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	2332						OK	RELEASE PSE - HELD
								WASH TRUCK
	2400							JOB COMPLETE

THANK YOU  
WAYNE, JEFF, JOE



CHARGE TO: **AMERICAN WARRIOR**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
**20791**

PAGE **1** OF **1**

1. SERVICE LOCATION <b>NESS CITY, KS.</b>	WELL/PROJECT NO.	LEASE <b>LARRY STIEBEN 2-21</b>	COUNTY/ARISH <b>NESS</b>	STATE <b>KS.</b>	CITY <b>BAZINE, KS.</b>	DATE <b>17 MAY 11</b>	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <b>H DOILFIELD SERV.</b>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <b>LOCATION</b>	ORDER NO.	
3.	WELL TYPE <b>OIL</b>	WELL CATEGORY <del>ABANDON</del>	JOB PURPOSE <b>PTA.</b>	WELL PERMIT NO.	WELL LOCATION <b>3W, 2N WIUTO</b>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <b>Development</b>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #110	20		MIL		5.00	100.00
576P		1			PUMP CHARGE			158		750.00	750.00
288		1			SAND 20/40 BRADY	10		SX		22.00	220.00
290		1			D-AIR	3		72		35.00	105.00
328-4		1			160/40 Pozmix 4% GEL	200		SX		9.75	1950.00
581		1			SERVICE CHARGE CEMENT	200		SX		1.50	300.00
582		1			MINIMUM DRAINAGE	16140	161.4	161.4	Ton	250.00	250.00

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

x **Scott**  
 DATE SIGNED **17 MAY 11** TIME SIGNED **11:30**  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	<b>3675.00</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?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	<b>3818.33</b>

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES  
 SWIFT OPERATOR **Scott** APPROVAL

Thank You!





# **Geological Report**

American Warrior, Inc.  
**Larry Stieben #2-21**  
480' FNL & 2180' FEL  
Sec. 21 T18s R22w  
Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Larry Stieben #2-21  
480' FNL & 2180' FEL  
Sec. 21 T18s R22w  
Ness County, Kansas  
API # 15-135-25199-0000

Drilling Contractor: Petromark.Drilling, LLc Rig # 1

Geologist: Jason Alm

Spud Date: March 26, 2011

Completion Date: April 4, 2011

Elevation: 2227' Ground Level  
2233' Kelly Bushing

Directions: Bazine KS, 3 mi. West on Hwy 96 to AA rd. North  
2 mi. to 150 rd. West into location.

Casing: 223' 8 5/8" surface casing  
4468' 5 1/2" production casing

Samples: 10' wet and dry, 3600' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Log-Tech, Inc. "Kenyon Bange"  
CNL/CNL, DIL, MEL, BHCS

Drillstem Tests: Three, Trilobite Testing, Inc. "Shane McBride"

Problems: Trip out of hole to fix drilling nipple and flowline  
@ 3687'. Bit Trip was conducted @ 4416'.

Remarks: DST #2 was pulled early due to similar weak blow  
during DST #1.

## Formation Tops

Formation	American Warrior, Inc. Larry Stieben #2-21 Sec. 21 T18s R22w 480' FNL & 2180' FEL
Anhydrite	1523', +710
Base	1556', +677
Heebner	3692', -1459
Lansing	3738', -1505
BKc	4058', -1825
Pawnee	4136', -1903
Fort Scott	4224', -1991
Cherokee	4244', -2011
Basil Cher. Sand	4318', -2085
Mississippian	4410', -2177
Gilmore City	4444', -2211
LTD	4470', -2237
RTD	4468', -2235

## Sample Zone Descriptions

**Basil Cher. Sand (4318', -2085):**      **Covered in DST #1,2,3**  
 Ss – Very fine to course grained, mostly well sorted, sub-angular to sub-rounded, fairly to well cemented with poor to fair inter-granular porosity, friable in part, light to fair scattered oil stain in cluster, show of free oil when broken, light odor, light to fair yellow cut fluorescents, few random large pebbles in tray, 55-100 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Shane McBride"

**DST #1**      **Basil Cherokee Sand**  
Interval (4272' – 4333') Anchor Length 61'  
IHP    – 2184 #  
IFP    – 45" – Built to 2 ¾ in.                      19-33 #  
ISI     – 45" – Dead                                    1180 #  
FFP    – 45" – Built to 2 in.                        42-48 #  
FSI    – 45" – Dead                                    1146 #  
FHP    – 2119 #  
BHT    – 111°F

Recovery:    70' OCM      20% Oil

**DST #2**      **Basil Cherokee Sand**  
Interval (4271' – 4338') Anchor Length 67'  
IHP    – 2209 #  
IFP    – 45" – Built to 2 in.                      26-50 #  
ISI     – 45" – Dead                                    1155 #  
FFP    – 15" – Built to ½ in.                        55-60 #  
FHP    – 2101 #  
BHT    – 105°F

Recovery:    60' Mud w/ oil scum

**DST #3**      **Basil Cherokee Sand**  
Interval (4271' – 4345') Anchor Length 74'  
IHP    – 2200 #  
IFP    – 45" – Built to 3 ½ in.                      24-59 #  
ISI     – 45" – Dead                                    1078 #  
FFP    – 45" – Built to 1 ¼ in.                        63-81 #  
FSI    – 45" – Dead                                    1067 #  
FHP    – 2075 #  
BHT    – 107°F

Recovery:    120' Oil Spotted Mud

## Structural Comparison

	American Warrior, Inc. Larry Stieben #2-21 Sec. 21 T18s R22w 480' FNL & 2180' FEL	American Warrior, Inc. Larry Stieben #1-21 Sec. 21 T18s R22w 1030' FNL & 1660' FEL		Pickrell Drilling Co. Wegele A #1 Sec. 22 T18s R22w C NW SW	
<b>Formation</b>					
Anhydrite	1523', +710	1525', +709	(+1)	1456', +717	(-7)
Base	1556', +677	1558', +676	(+1)	Not Available	NA
Heebner	3692', -1459	3690', -1456	(-3)	3625', -1452	(-7)
Lansing	3738', -1505	3736', -1502	(-3)	3666', -1493	(-12)
BKc	4058', -1825	4052', -1818	(-7)	Not Available	NA
Pawnee	4136', -1903	4130', -1896	(-7)	4068', -1895	(-8)
Fort Scott	4224', -1991	4214', -1980	(-9)	4153', -1980	(-11)
Cherokee	4244', -2011	4236', -2002	(-9)	4172', -1999	(-12)
Basil Cher. Sand	4318', -2085	Not Encountered	NE	4238', -2065	(-20)
Mississippian	4410', -2177	4305', -2071	(-106)	4278', -2105	(-72)
Gilmore City	4444', -2211	Not Reached	NR	Not Reached	NR

## Summary

The location for the Larry Stieben #2-21 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three drill stem tests were conducted all of which were inconclusive. After all gathered data had examined the decision was made to run 5 1/2 inch production casing to further evaluate the Larry Stieben #2-21 well.

## Recommended Perforations

**Basil Cherokee Sand      (4318' – 4330')      DST #1,2,3**

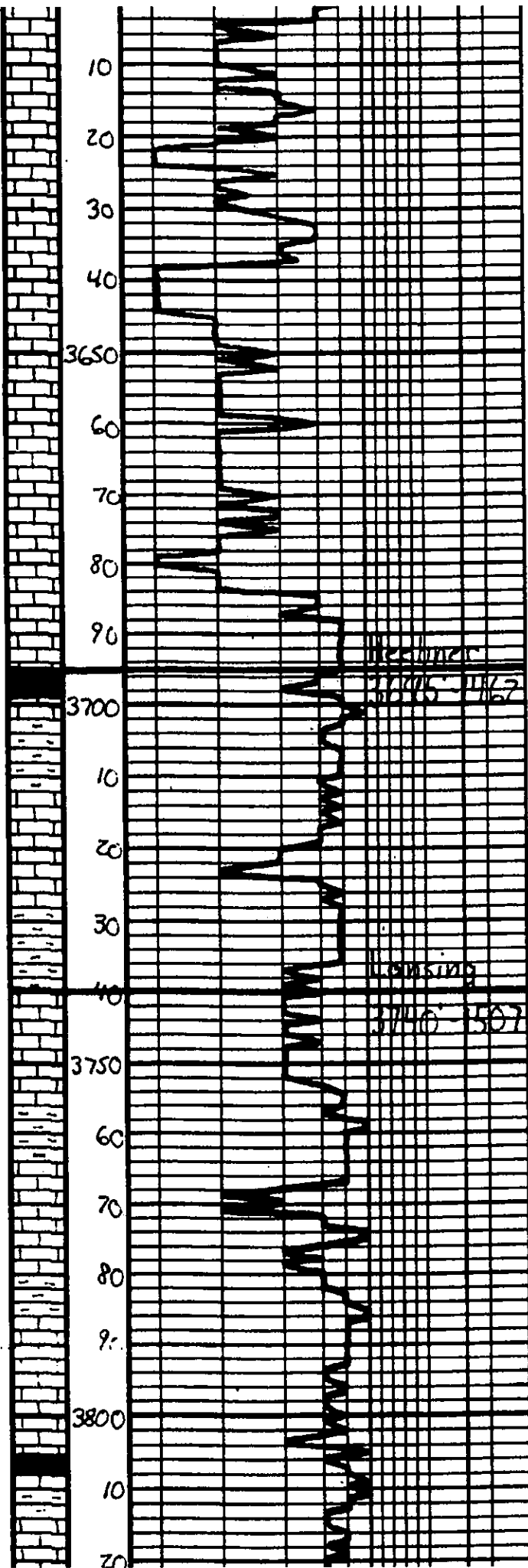
Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.









Geo on location  
5:00p.m. 3-30-2011

3687' Trip out  
hole to fix flowline &  
nipple

Sh. Blk. Leds

Sh. Gray. Sandstone

LS. Thin. Lt. Gray. Fine grained  
Frac. sandstone with some sh. Barren  
Chert

Sh. Gray. Sandstone

LS. Tan. Lt. Gray. Fine gr. Calc.  
with frac. some sh. Barren

Sh. Gray. Sandstone

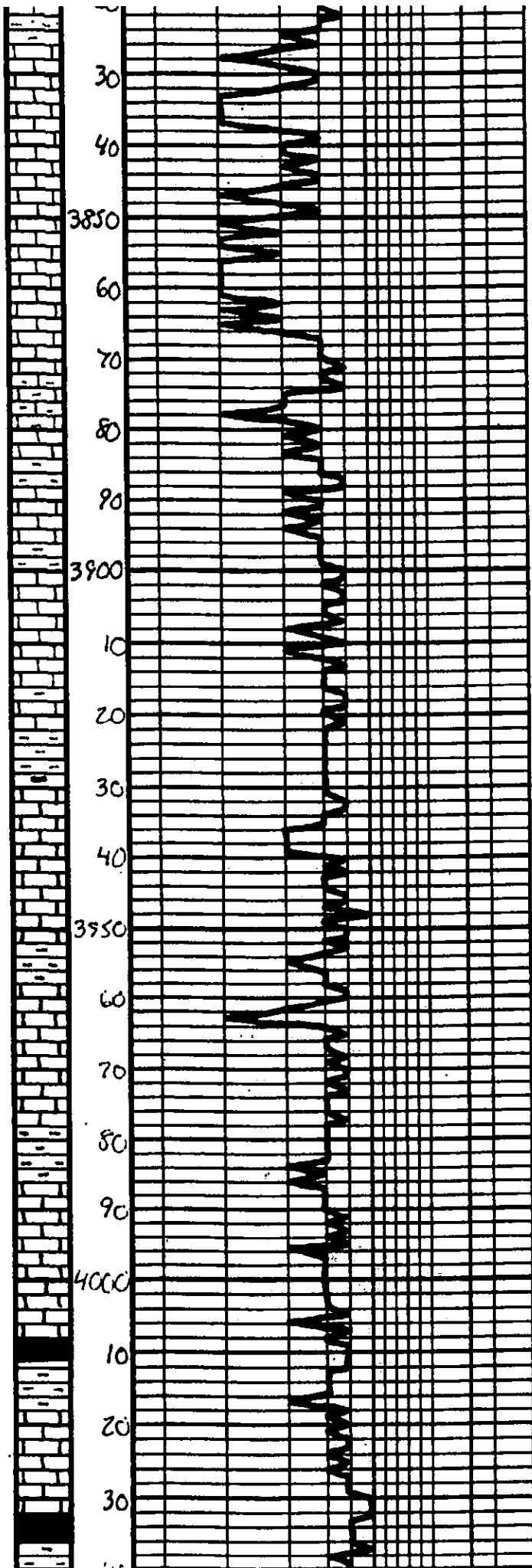
LS. Tan. Lt. Gray. Fine grained  
Frac. sandstone with some sh. Barren

Sh. Gray. Sandstone

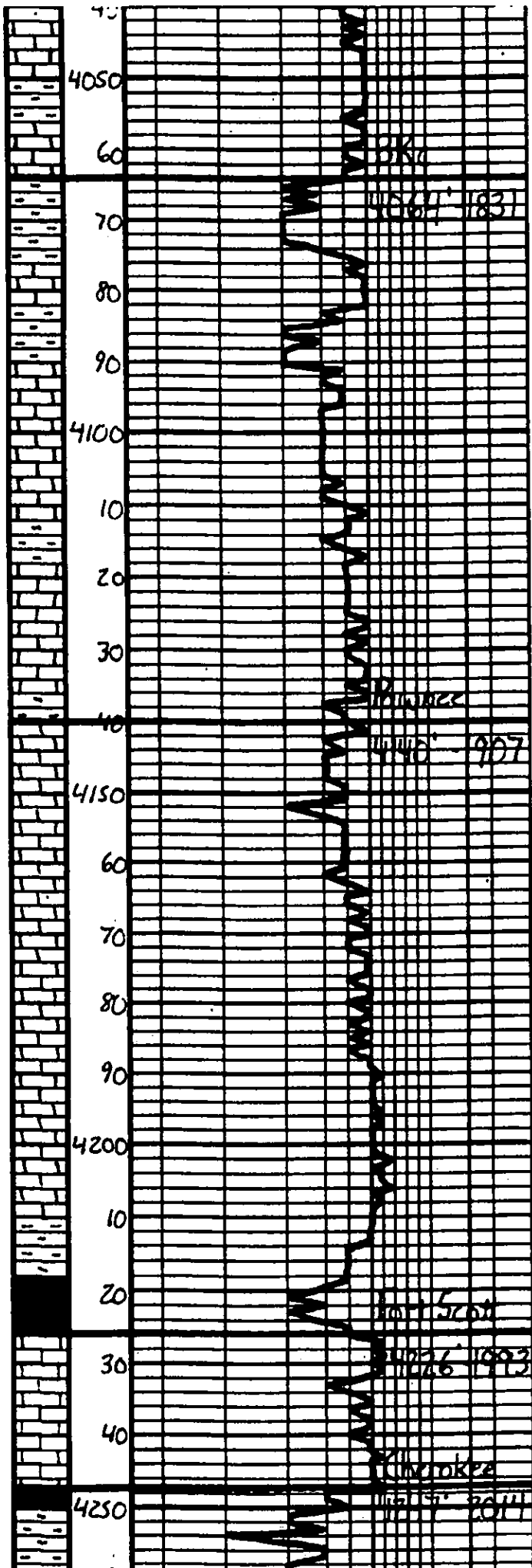
LS. Light. Lt. Gray. Fine gr. Calc.  
with frac. some sh. Barren  
Barren, & little Gray

Sh. Ddk. Gray

LS. Tan. Lt. Gray. Sub. DNE



LS. Tan. D.B. Sub. Early. Out w/ Fair. Good. cam. of. Basin
LS. ala. D.B. D.B.T.
LS. ala
LS. Tan. Lt. Gray. Substa. Out w/ Poor. cam. of. Basin
Sh. Gray. Bas.
Sh. ala
LS. Tan. Lt. Gray. Substa. Out w/ Poor. cam. of. Basin
Sh. Gray. Bas.
LS. Tan. Lt. Gray. Substa. Out w/ Poor. cam. of. Basin
Sh. Gray. Bas.
LS. D.B. Sub. Lt. Gray. Early Out. D.B.T. w/ Good. cam. of. Basin
LS. ala. DNS
Sh. Gray. Bas.
LS. D.B. Sub. Tan. Substa. DNS Sl. Out.
Sh. Blk. Carb.
LS. Tan. Lt. Gray. Substa. DNS. Sl. Out.
Sh. Blk. Carb.
LS. ala. Bas.



LS - Tan - Gray, Substr. DMS	
LS - o/s	
Sh - Gray - Ben - Gen	
LS - Tan - Gray, Substr. DMS	
Sh - Gray - Ben - Gen	
LS - Lt. Gray, Substr. DMS	
Sh - Gray - Ben	
LS - Off-white, Lt. Gray, Substr. DMS St. 1.1 in.	
Sh - Gray - Tan	
LS - Off-white, Lt. Gray, Ben - Substr. Mud. DMS	
LS - Gray - Lt. Gray, Substr. DMS	
LS - o/s	
LS - o/s	
Sh - Dark Gray	
33 Sh - Bk. Carb.	
45 LS - Tan - Off. Wh. Ben - Substr. and Base sat. imp. in 17' Sand. oil sat. in 4' St. 1.1 in. Ben D. 1.1 in. lowest in flow	
8 Sh - Dk. Gray, Bk.	
Sh - Gray - Tan - Gen	
<b>DST #1</b>	
Basil Chec. Sand	
8122' - 4333'	
45° 45' - 45° 45"	
IN	2184 #
IF	19.33 # Built to 2 3/4 in.
ISI	1180 # Dead
FF	42.48 # Built to 2 in.
FSI	1146 # Dead
FH	2119 #
BHT	111°F
Recovery:	76.00% 20% Oil
<b>DST #2</b>	
Basil Chec. Sand	
4271' - 4338'	
45° 45' - 15"	
IN	2207 #
IF	26.50 # Built to 2 in.
ISI	1155 # Dead
FF	55.60 # Built to 1/2 in.
FH	2101 #
BHT	105°F
Recovery:	60' Mod. wt oil sum

# DST #3

Basil Chee Sand  
4271' - 4345'  
45° 45' 45" 45"

IN 2200#  
IF 24-59#  
But to 3.5...  
SSI 1000#  
Dena  
FF 63-81#  
But to 1400  
FSI 1067#  
Deade  
FH 2015#  
BHT 107°F  
Recovery:

120 Oil spot. mud

LS - Tan - Lt. Gray, Substr.

LS - ala

Sh - Gray - Red - Green

LS - Tan - Gray - Mottled, Substr., DMS

Sh - Mottled, "Fossils"  
Sh - Mottled, "Fossils"

SS - Or. Cl. Fr. - Lt. Gr. (w/lt)  
Silty, Substr. with (fossils)  
Fossiliferous, Shaly, DMS, sil  
oil stain, DMS, Lt. Col. Fine  
SS - ala, Med. Coars. Top, Shaly  
Silty, Fair oil stain, cherty.

SS - Or. Fr. - Med. Coars. Top  
Shaly, Substr. with (fossils), sub-  
fossiliferous, w/lt. oil stain, DMS,  
oil stain, DMS, Lt. Col. Fine  
SS - ala, Med. Coars. Top, Shaly  
Silty, Fair oil stain, cherty.

SS - ala, Med. Coars. Top, Shaly

SS - Or. Fr. - Med. Coars. Top  
Shaly, Substr. with (fossils), sub-  
fossiliferous, w/lt. oil stain, DMS,  
oil stain, DMS, Lt. Col. Fine  
SS - ala, Med. Coars. Top, Shaly  
Silty, Fair oil stain, cherty.

SS - Or. Fr. - Med. Coars. Top, Shaly

SS - Or. Fr. - Med. Coars. Top, Shaly

SS - ala

B.T. Trip (4416')

Dolo - Lt. - White - Tan, Substr.  
"Fossils" Shaly, DMS, oil  
Bore Samples, Bore

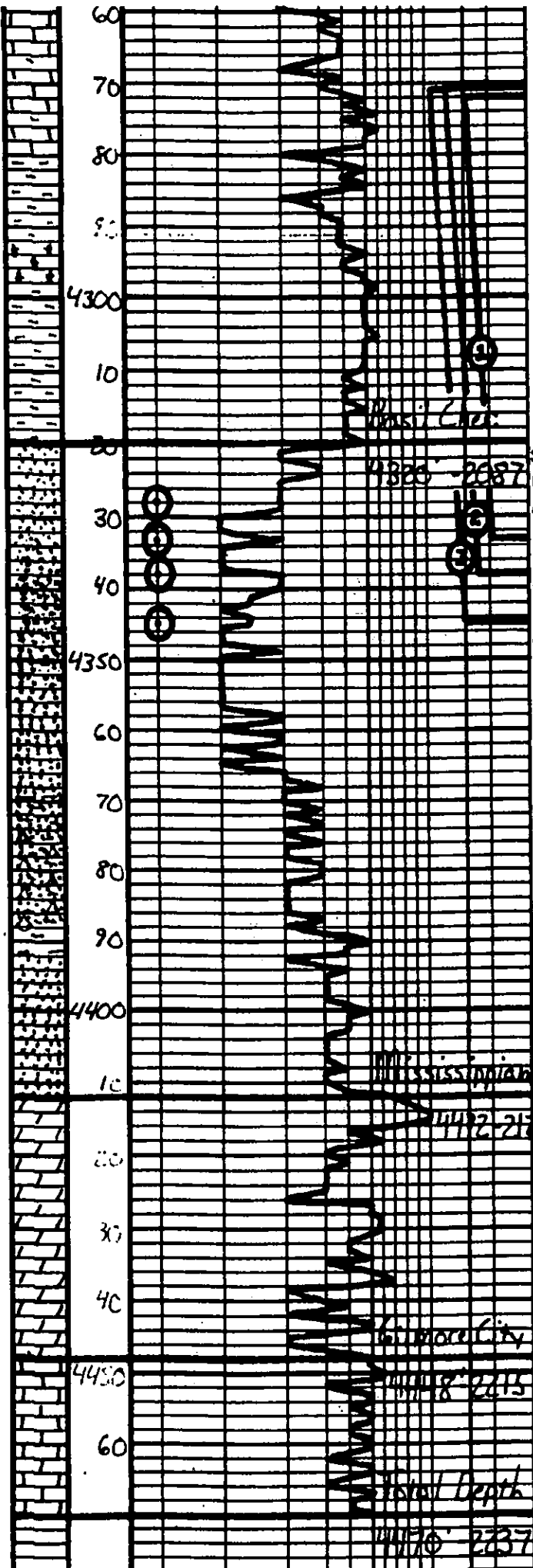
Bore Samples  
Very Shaly / Sandy

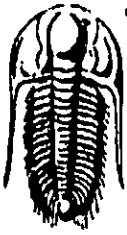
Dolo - Lt. - White - Tan, Substr.

LS - Tan - Lt. Gray, Substr. DMS

LS - ala

Recent II.





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior Inc

**Larry Stieben #2-21**

3118 Cummings Rd  
Garden City, Ks  
67846

**21-18-22 Ness, Ks**

Job Ticket: 042183

DST#: 1

ATTN: Jason Alm

Test Start: 2011.04.02 @ 01:15:22

### GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:07

Time Test Ended: 09:10:37

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 55

Interval: **4272.00 ft (KB) To 4333.00 ft (KB) (TVD)**

Reference Elevations: 2233.00 ft (KB)

Total Depth: 4333.00 ft (KB) (TVD)

2227.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 6667**

Inside

Press@RunDepth: 47.97 psig @ 4273.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.02

End Date: 2011.04.02

Last Calib.: 2011.04.02

Start Time: 01:15:22

End Time: 08:54:37

Time On Btm: 2011.04.02 @ 04:13:52

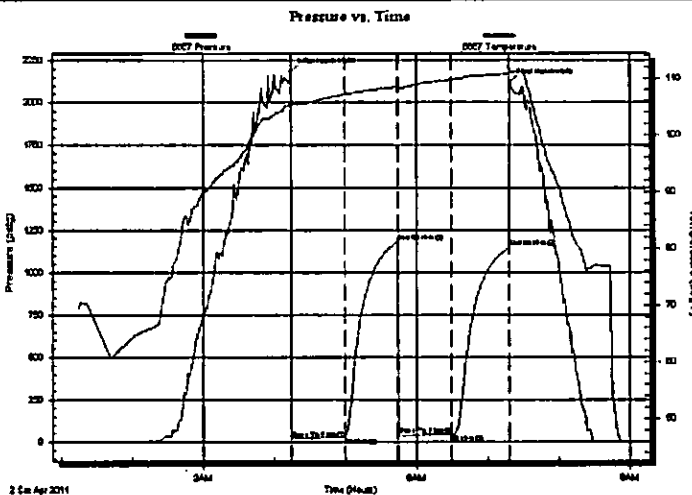
Time Off Btm: 2011.04.02 @ 07:19:07

**TEST COMMENT:** 2 3/4" in blow

No return

2" in blow

No return



### PRESSURE SUMMARY

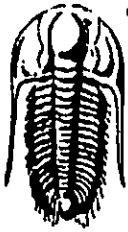
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.65	105.91	Initial Hydro-static
1	18.97	105.18	Open To Flow (1)
46	32.50	107.17	Shut-In(1)
90	1180.40	108.43	End Shut-In(1)
91	42.07	108.18	Open To Flow (2)
136	47.97	109.80	Shut-In(2)
184	1145.52	110.83	End Shut-In(2)
186	2118.93	111.18	Final Hydro-static

### Recovery

Length (ft)	Description	Volumes (bbl)
70.00	o c m 20% o 80% m	0.34
0.00	6" in free oil on top	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

American Warrior Inc

Larry Stieben #2-21

3118 Cummings Rd  
Garden City, Ks  
67846

21-18-22 Ness, Ks

Job Ticket: 042183

DST#: 1

ATTN: Jason Alm

Test Start: 2011.04.02 @ 01:15:22

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.34 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	o c m 20% o 80% m	0.344
0.00	6" in free oil on top	0.000

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

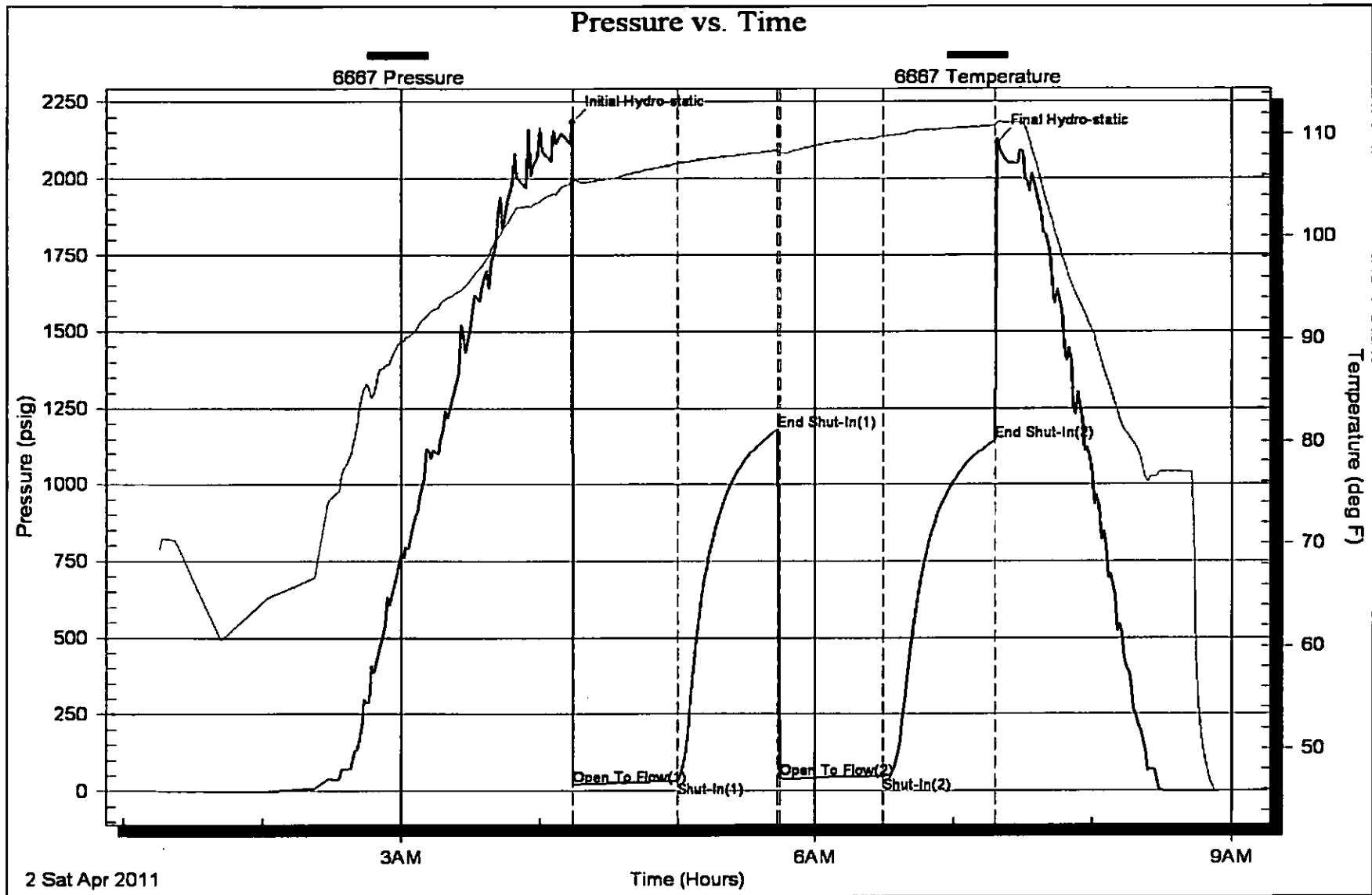
Num Gas Bombs: 0

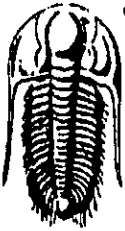
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

### DRILL STEM TEST REPORT

American Warrior Inc  
3118 Cummings Rd  
Garden City, Ks  
67846  
ATTN: Jason Alm

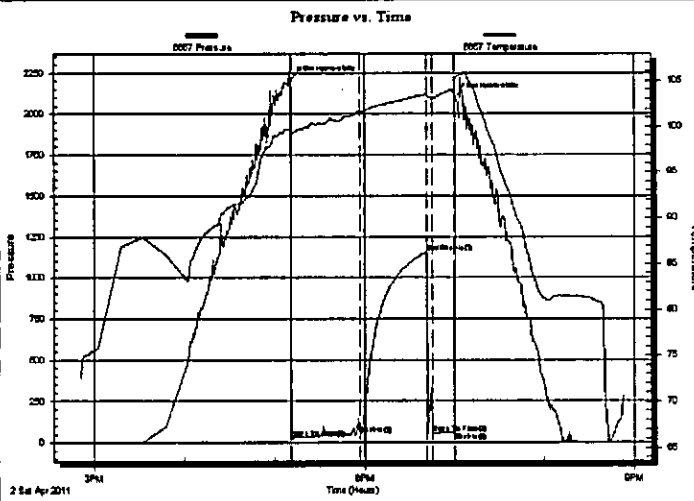
**Larry Stieben #2-21**  
**21-18-22 Ness, Ks**  
Job Ticket: 042184      DST#: 2  
Test Start: 2011.04.02 @ 14:51:02

**GENERAL INFORMATION:**

Formation: **Cherokee Sand**  
Deviated: **No** Whipstock:                                      ft (KB)  
Time Tool Opened: 17:11:17  
Time Test Ended: 21:15:17  
Test Type: **Conventional Bottom Hole**  
Tester: **Shane McBride**  
Unit No: **55**  
Interval: **4271.00 ft (KB) To 4338.00 ft (KB) (TVD)**  
Reference Elevations: **2233.00 ft (KB)**  
Total Depth: **4338.00 ft (KB) (TVD)**  
**2227.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
KB to GR/CF: **6.00 ft**

**Serial #: 6667**      **Inside**  
Press@RunDepth:      50.03 psig @      4272.00 ft (KB)      Capacity:                                      8000.00 psig  
Start Date:              2011.04.02                      End Date:                                      2011.04.02      Last Calib.:                                      2011.04.02  
Start Time:              14:51:02                      End Time:                                      20:53:17      Time On Btm:      2011.04.02 @ 17:11:02  
Time Off Btm:      2011.04.02 @ 19:01:02

**TEST COMMENT:** 2" in blow  
No return  
1/2" in blow after 15 min. pull tool



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.59	99.95	Initial Hydro-static
1	25.82	99.18	Open To Flow (1)
46	50.03	101.69	Shut-In(1)
91	1154.86	103.51	End Shut-In(1)
95	55.28	103.02	Open To Flow (2)
109	60.20	103.65	Shut-In(2)
110	2100.66	105.15	Final Hydro-static

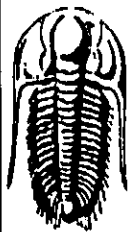
**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	heavy thick mud w /oil scum 100%m	0.30

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**Larry Stieben #2-21**

3118 Cummings Rd  
Garden City, Ks  
67846

**21-18-22 Ness, Ks**

Job Ticket: 042184

**DST#: 2**

ATTN: Jason Alm

Test Start: 2011.04.02 @ 14:51:02

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	heavy thick mud w/oil scum 100%m	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

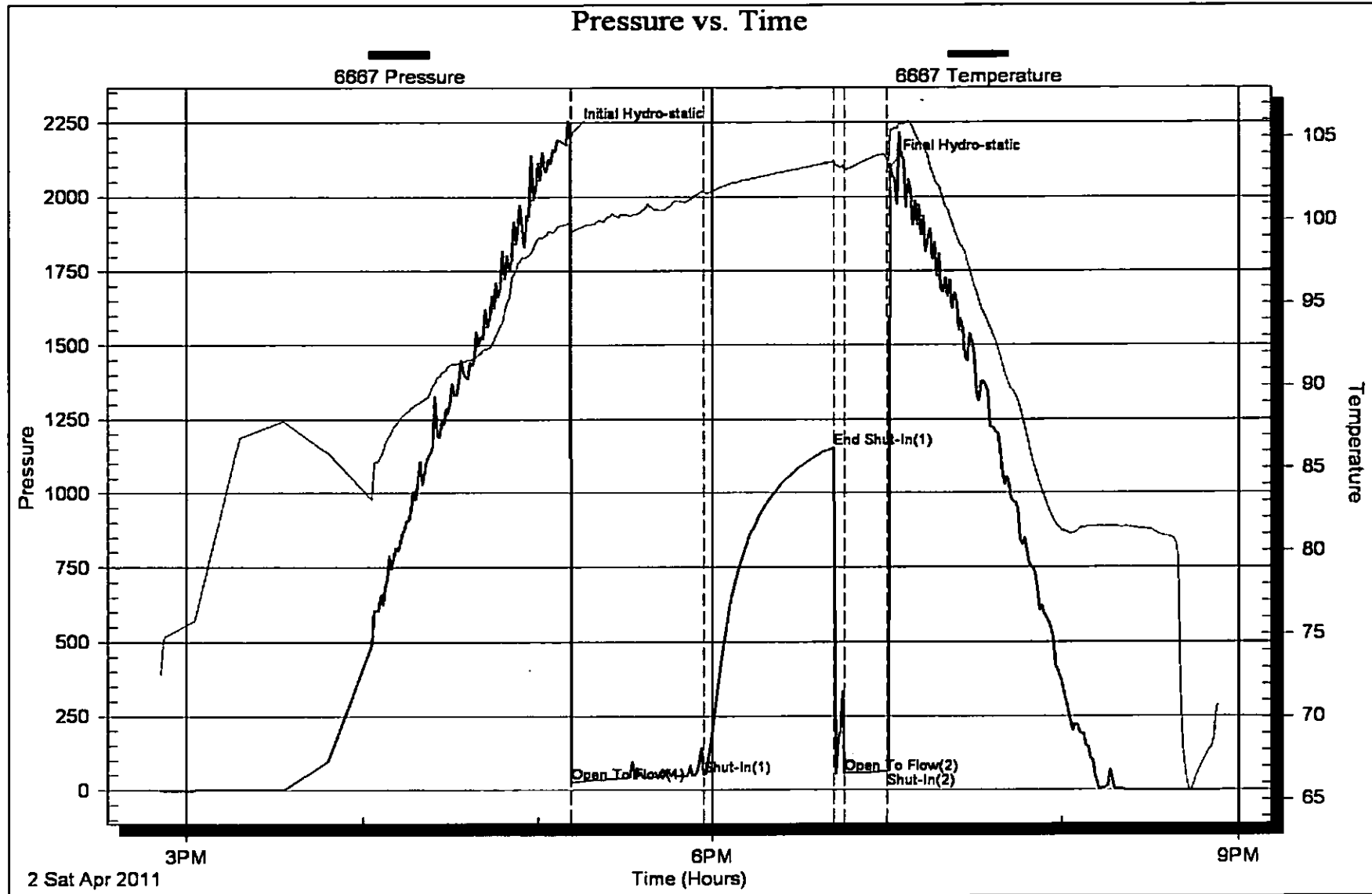
Num Gas Bombs: 0

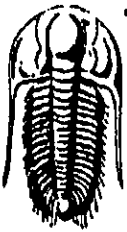
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc

**Larry Stieben #2-21**

3118 Cummings Rd  
Garden City, Ks  
67846

**21-18-22 Ness, Ks**

Job Ticket: 042185

**DST#: 3**

ATTN: Jason Alm

Test Start: 2011.04.03 @ 03:55:58

## GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:23:58

Time Test Ended: 11:25:43

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **55**

Interval: **4271.00 ft (KB) To 4345.00 ft (KB) (TVD)**

Reference Elevations: **2233.00 ft (KB)**

Total Depth: **4345.00 ft (KB) (TVD)**

**2227.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **6.00 ft**

**Serial #: 6667**

**Inside**

Press@RunDepth: **81.07 psig @ 4272.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.04.03**

End Date: **2011.04.03**

Last Calib.: **2011.04.03**

Start Time: **03:55:58**

End Time: **11:06:43**

Time On Btm: **2011.04.03 @ 06:22:58**

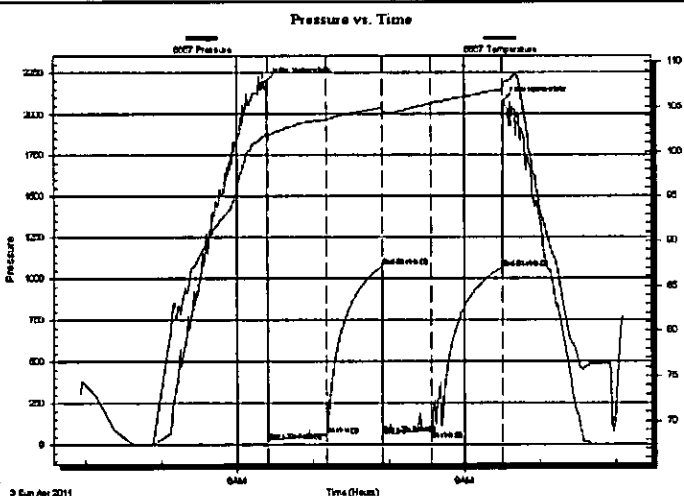
Time Off Btm: **2011.04.03 @ 09:31:13**

**TEST COMMENT:** 3 3/4" in blow

No return

1 1/4" in blow

No return



## PRESSURE SUMMARY

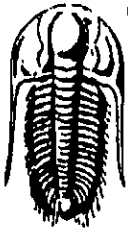
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.34	101.72	Initial Hydro-static
1	24.93	101.71	Open To Flow (1)
48	59.43	103.54	Shut-In(1)
92	1078.00	104.88	End Shut-In(1)
92	63.73	104.42	Open To Flow (2)
131	81.07	105.36	Shut-In(2)
188	1067.68	106.88	End Shut-In(2)
189	2075.56	107.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud w/oil spots	0.59
0.00	show of free oil; on top	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc  
3118 Cummings Rd  
Garden City, Ks  
67846  
ATTN: Jason Alm

**Larry Stieben #2-21**  
**21-18-22 Ness, Ks**  
Job Ticket: 042185      **DST#: 3**  
Test Start: 2011.04.03 @ 03:55:58

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.96 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud w/oil spots	0.590
0.00	show of free oil; on top	0.000

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

