



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

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

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

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

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

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

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

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

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



1048301

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Seltman 4
Doc ID	1048301

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Micro
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Seltman 4
Doc ID	1048301

Tops

Name	Top	Datum
Anhydrite	1317	+793
Heebner	3543	-1433
Lansing	3588	-1478
BKC	3899	-1789
Pawnee	3983	-1873
Ft. Scott	4044	-1934
Mississippian	4130	-2020
LTD	4156	-2046



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

TICKET 17939

PAGE 1 OF 1

1. SERVICE LOCATIONS Address City	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	SELMAN #4	NESS	KS	BAZINE, KS	15 May 10	
3. WELL TYPE	DISCOVERY DRILLING	RIG NAME NO.	WELL CATEGORY	SHIPPED VIA	DELIVERED TO	ORDER NO.	
4. REFERRAL LOCATION	OIL	DEVELOPMENT	JOB PURPOSE	WELL PERMIT NO.	LOCATION	WELL LOCATION	
INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 110	20	mi			5.00	100.00
5760D					RUM CHARGE	1	HR	1330	HR	1100.00	1100.00
290					D- AIR	4	sq			35.00	140.00
409					<del>EXHAUSTERS</del> TURBOEXHAUSTERS	4	EA	8 5/8		90.00	360.00
412					BARGE PLATE 8 5/8	1	EA			100.00	100.00
410					TOP PLATE 8 5/8	1	EA			100.00	100.00
281					NUD STANCH	500	sq			1.00	500.00
291					ALUMINUM POL	2	sq			25.00	50.00
270					COCCUR	115	HR			1.50	172.50
330					SOFTWOOD DRUMS STANDARD	450	DR			15.00	6750.00
331					SERVICE CHARGE (rental)	444.29				1.50	666.44
333					DRAYAGE	444.29				1.00	444.29

**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 CUSTOMERS AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*

DATE SIGNED: 15 May 10 TIME SIGNED: 1900  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?	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CUSTOMER DID NOT WISH TO RESPOND

TOTAL

SWIFT OPERATOR: *[Signature]* APPROVAL: *[Signature]*

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 15 APR 10 PAGE NO. 1

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE SELMAN #4 JOB TYPE CEMENT 9 5/8 TICKET NO. 17939

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							ON LOCATION
	1545							START PIPE 8 5/8 - 13"
								NET 1330 SHOE ST. 9.00
								TDS 1330 CEMENTERS 1.3 9 2 1
	1645							CIRCUIT
	1710	6	12		1			Pump 50 DSG 17 1/2 PPG
		6	20		1			Pump 20 PPG KCL FRESH
	1715	6			1			100 CEMENT
			50 1/2		1			100 SRS @ 11.5 PPG
			55		1			150 SRS @ 11.7 PPG
			34		1			100 SRS @ 13 PPG
			26		1			100 SRS @ 14.5 PPG
	1747							RELEASE PLUG
	1748	6			1			DISPLACE PLUG
	1800	6	85		1			PLUG DOWN
								WASH TANK
	1900							JOB COMPLETE
								THANKS #110
								JASCO RIGGER TUB V IAGNE



CHARGE TO: Amesbury, KS  
 ADDRESS: Amesbury, KS  
 CITY, STATE, ZIP CODE: Amesbury, KS 67560

TICKET 17916  
 PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Amesbury, KS WELL/PROJECT NO. 51110 LEASE 51110 COUNTY/PARISH Amesbury STATE KS CITY Amesbury DATE 5-1-10 OWNER  
 2. Amesbury, KS TICKET TYPE  SERVICE CONTRACTOR Amesbury, KS RIG NAME/NO. Amesbury SHIPPED VIA Amesbury DELIVERED TO Amesbury ORDER NO.  
 3. Amesbury, KS WELL TYPE Oil WELL CATEGORY Oil JOB PURPOSE Accounting WELL PERMIT NO. Amesbury WELL LOCATION Amesbury, KS  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
572					MILEAGE TRAVEL	1				5.00	5.00
577					Amesbury, KS	1				1400.00	1400.00
281					Midvale	1				50.00	50.00
402					Central Park	1				275.00	275.00
406					Central Park	1				200.00	200.00
407					Central Park	1				275.00	275.00
411					Central Park	1				150.00	150.00

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 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS  
 X Amesbury, KS DATE SIGNED 5-1-10 TIME SIGNED 11:00  A.M.  P.M.  
**REMIT PAYMENT TO:**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300  
 CUSTOMER DID NOT WISH TO RESPOND  
 SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  AGREE  UN-DECIDED  DIS-AGREE  
 WE UNDERSTOOD AND MET YOUR NEEDS?  AGREE  UN-DECIDED  DIS-AGREE  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  AGREE  UN-DECIDED  DIS-AGREE  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  AGREE  UN-DECIDED  DIS-AGREE  
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO  
 TAX 400.00  
 TOTAL 2600.00

SWIFT OPERATOR Amesbury, KS APPROVAL Amesbury, KS  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 Thank You!



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

TICKET CONTINUATION

TICKET No. 17916

CUSTOMER American Superior Inc.  
WELL Saltman #4

DATE 5-21-10 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	QTY		UNIT		UNIT PRICE	AMOUNT	
		LOC	ACCT			QTY	UNIT	QTY	UNIT			
325					Standard Cement EA-2	175	cks			12.00	2100.00	
276					Floccle	45	lbs			1.50	67.50	
283					Self	900	lbs			0.15	135.00	
284					Cal Seal	8	cks			30.00	240.00	
290					D-Air	2	cks			35.00	70.00	
292					Halod 322	125	lbs			7.00	875.00	
581					SERVICE CHARGE					1.50	26.25	
582					MEASUREMENT CHANGE					2.50	250.00	
					TOTAL WEIGHT	18220		LOADED MILES	25			
					CUBIC FEET	175		TON MILES				

CONTINUATION TOTAL 4000.00



**JOB LOG**

**SWIFT Services, Inc.**

DATE 5-21-10 PAGE NO. 1

CUSTOMER American Well WELL NO. 4 LEASE Seltman JOB TYPE Cement 5 1/2" casing TICKET NO. 17916

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							On Location 5 1/2" 15.5# Cent. 1, 2, 3, 4, 77 TD 4156' R.A. 4 TP 4155' R- ST-42'
	1215							Start 5 1/2" casing
	1410							Break Circulation
	1520	6 3/4	12	✓			200	Pump 500 gal Mud Flush + 200 lb KCL
	1525	3	7	✓				Plug Rat Hole 30 sks
	1530	3	5	✓				Plug Mouse Hole 20 sks
	1535	4 1/2		✓			200	Start Cement 125 sks @ 15.5 spg
	1545		30					Shut Down Release Plug Wash Pumps
	1550	6 3/4		✓			200	Start Displacement
		6 3/4	83	✓			300 750	Lift Cement Max Lift
	1605		97.8				1500	Land Plug-Release Hold Wash Truck
	1630							Job Complete Thank you - H. White + Rob



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

TICKET 17925  
 PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness City, KS  
 2. Ness City, KS  
 3. Ness City, KS  
 4. Ness City, KS

WELL/PROJECT NO: 9  
 TICKET TYPE: SERVICE  
 CONTRACTOR: Selman  
 RIG NAME/NO.: Ness  
 COUNTY/PARISH: Ness  
 STATE: KS  
 CITY: Ness City  
 DATE: 6-1-10  
 OWNER:

WELL TYPE: OIL  
 WELL CATEGORY: Development  
 JOB PURPOSE: Cement Between 8' & 5 1/2'  
 DELIVERED TO: Razine  
 WELL PERMIT NO.:  
 WELL LOCATION: Razine 4E 2N11EKS

INVOICE INSTRUCTIONS: 21-1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY	UM	QTY	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE TRK #114	25	mi			5.00	125.00
577					Pump Charge	1	ea			850.00	850.00
581					Service Charge Cement	150	sts			1.50	225.00
582					Minimum Drayage Charge	1	ea			250.00	250.00
330					Swift Multi-Mensity Standard	150	sts			15.00	2250.00
276					Flocelc	40	lbs			1.50	60.00
290					D-Air	2	gal			35.00	70.00

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

DATE SIGNED: 6-1-10  
 TIME SIGNED: 1530  
 SIGNATURE: Scott

**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: 3830.00

TOTAL: 3956.14

SWIFT OPERATOR: Swift (01881)

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

APPROVAL: Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 6-1-10 PAGE NO.

CUSTOMER American Warrior WELL NO. 4 LEASE Setzman JOB TYPE Cement Retention Ticket No. 17925

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1530							On Location R 5/8 X 5 1/2
	1600				✓			500 Pressure 5 1/2 Casing - Shut in
	1605	3			✓			200 Injection Rate
	1615	3			✓			200 Start Cement 75sks @ 13.0ppg
		3	25		✓			200 Cement 75sks @ 12.0ppg
			57					- Shut Down - Shut in
								Was h Truck
								Job Complete Thank you Brett, David & Jason

# **Geological Report**

American Warrior, Inc.  
**Seltman #4**  
1453' FNL & 2200' FWL  
Sec. 24 T18s R21w  
Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Seltman #4  
1453' FNL & 2200' FWL  
Sec. 24 T18s R21w  
Ness County, Kansas  
API # 15-135-25059-0000

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

Geologist: Jason Alm

Spud Date: May 14, 2009

Completion Date: May 21, 2009

Elevation: 2102' Ground Level  
2110' Kelly Bushing

Directions: Alexander KS, West ½ mi. on Hwy 96 to  
McCracken Rd. North 1½ mi. West via county rd.  
1½ mi. Southwest into location.

Casing: 1330' 8 5/8" surface casing  
4155' 5 1/2" production casing

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

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "Jared Long"  
CNL/CNL, DIL, MEL

Drillstem Tests: One, Trilobite Testing, Inc. "Brian Fairbank"

Problems: None

Remarks: None

## Formation Tops

	<b>American Warrior, Inc.</b> <b>Seltman #4</b> <b>Sec. 24 T18s R21w</b> <b>1453' FNL &amp; 2200' FWL</b>
<b>Formation</b>	
Anhydrite	<b>1317', +793</b>
Base	<b>1351', +760</b>
Heebner	<b>3543', -1433</b>
Lansing	<b>3588', -1478</b>
BKc	<b>3899', -1789</b>
Pawnee	<b>3983', -1873</b>
Fort Scott	<b>4044', -1934</b>
Cherokee	<b>4060', -1950</b>
Mississippian	<b>4130', -2020</b>
LTD	<b>4156', -2046</b>
RTD	<b>4155', -2045</b>

## Sample Zone Descriptions

- Cherokee A Sand (4070', -1960):**      **Covered in DST #1**  
 Ss – Quartz, fine grained, well sorted, well-rounded, poorly cemented with fair to good inter-granular porosity, good oil stain and saturation in cluster, show of free oil, light odor, many random grains, good cut fluorescents 74 units hotwire.
- Cherokee B Sand (4094', -1984):**      **Not Tested**  
 Ss – Quartz, medium to coarse grained, fairly sorted, poorly cemented, sub-rounded, with fair to good inter-granular porosity, light to heavy oil stain and saturation, good show of free oil, light odor, fair cut fluorescents, heavy chert, multicolored, fresh.

**Drill Stem Tests**  
 Trilobite Testing, Inc.  
 "Brian Fairbanks"

**DST #1**

**Cherokee A Sand**

Interval (4058' – 4080') Anchor Length 22'

IHP	– 2010 #	
IFP	– 30" – B.O.B. 16 min.	23-52 #
ISI	– 45" – Dead	435 #
FFP	– 30" – B.O.B. 12 min.	50-70 #
FSI	– 45" – Dead	412 #
FHP	– 1966 #	
BHT	– 115°F	

Recovery: 315' GIP  
 15' CGO  
 75' MGO 70% Oil  
 60' GOCM 10% Oil

**Structural Comparison**

<b>Formation</b>	<b>American Warrior, Inc.</b> <b>Seltman #4</b> Sec. 24 T18s R21w 1453' FNL & 2200' FWL	Shields R W Pabst #1 Sec. 24 T18s R21w SE SE NW	American Warrior, Inc. Seltman #1 Sec. 24 T18s R21w 1200' FNL & 1600' FWL
Anhydrite	<b>1317', +793</b>	NA	1315', +799
Base	<b>1351', +760</b>	NA	NA
Heebner	<b>3543', -1433</b>	3522', -1426	3545', -1431
Lansing	<b>3588', -1478</b>	3566', -1470	3590', -1476
BKc	<b>3899', -1789</b>	NA	NA
Pawnee	<b>3983', -1873</b>	NA	NA
Fort Scott	<b>4044', -1934</b>	NA	4044', -1930
Cherokee	<b>4060', -1950</b>	4055', -1959	4062', -1948
Mississippian	<b>4130', -2020</b>	4118', -2022	4132', -2018

## **Summary**

The location for the Seltman #4 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Cherokee A Sand Formation. After all gathered data had examined the decision was made to run 5 1/2 inch production casing to further evaluate the Seltman #4 well.

## **Recommended Perforations**

<b>Cherokee A Sand:</b>	<b>(4070' – 4076')</b>	<b>DST #1</b>
-------------------------	------------------------	---------------

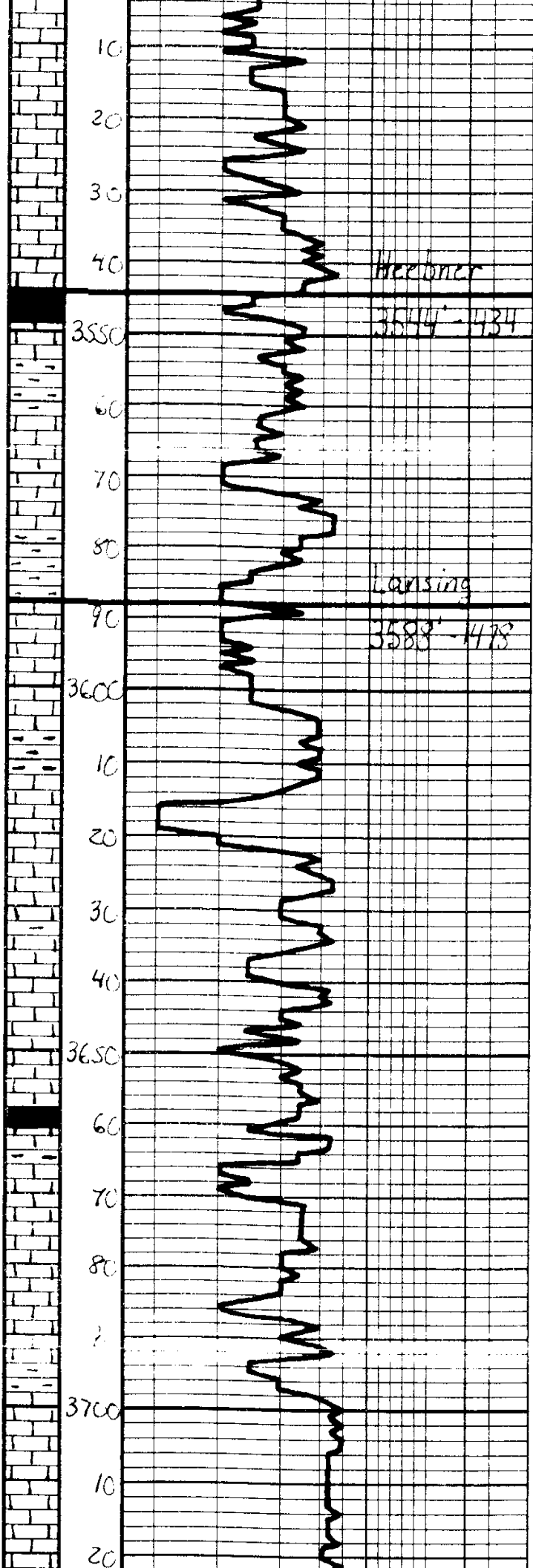
Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.









Ls. Tan-grey, fine gr. Mottled Chalky

Leon Lenticula  
@ 1:00p.m. 5-18-2010

Ls. chq. sh. fossil

Heelbner  
3544' - 434'

Sh. Blk, Lach

Sh. Grey-Bla. Lach

Ls. Tan-grey, fine gr. Fossiliferous  
pp. small, irregular & wavy pr.  
lenticula

Lansing  
3588' - 478'

Sh. Grey-Bla. Lach

Ls. Tan-grey, fine gr. Fossiliferous  
cal. w/ fair conc. of Barren

Sh. Grey-Bla

Ls. Tan-grey, fine gr. Fossiliferous  
cal. w/ small conc. of Barren

Ls. chq. Divs

Sh. Grey

Ls. Off-wh. to grey, Fossiliferous  
Fossiliferous, w/ small conc. of  
Barren. Lenticula: T. Lach.

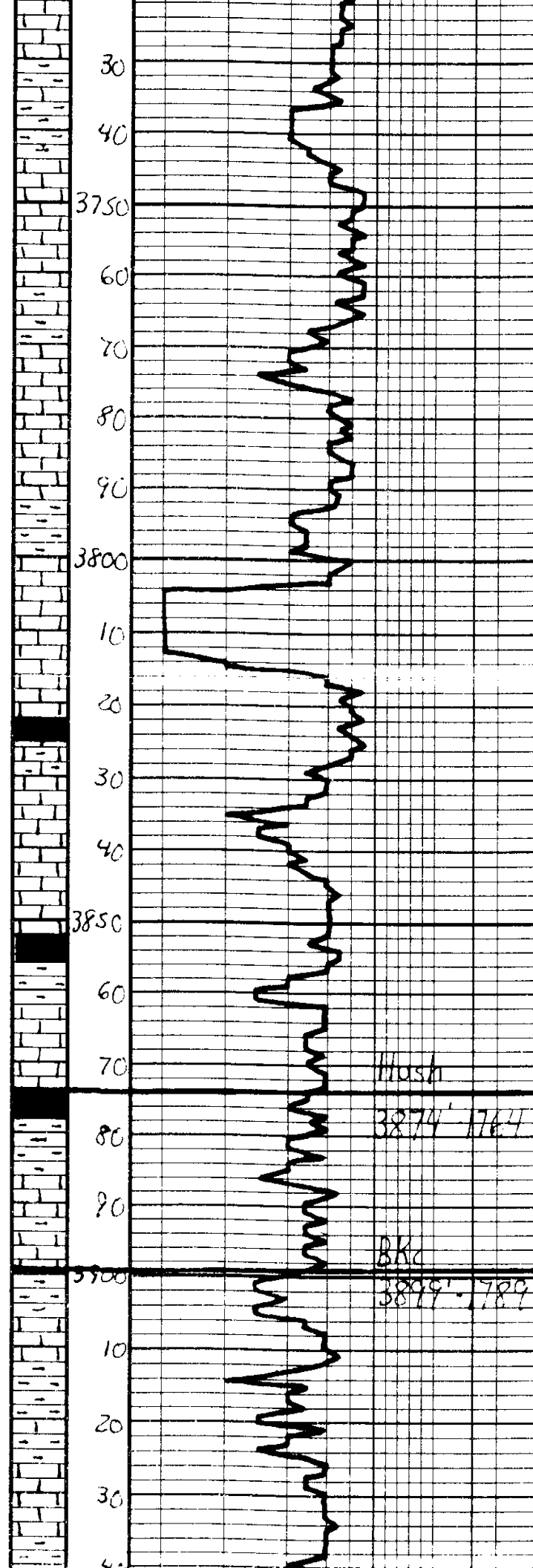
Sh. Dk. Grey - Blk

Ls. Tan-grey, fine gr. Fossiliferous  
cal. w/ small conc. of Barren

Ls. chq.

Sh. Grey-Bla

Ls. Tan-grey, Mottled, Subdiv  
DIVS



Ls. - ala

Sh. - Dek. Gray - BkK

Ls. - Tan - Lt. Gray, Subalar, DNS

Sh. - Dek. Gray - Gray

Ls. - Offwhite - Lt. Gray, Fossiliferous, Fossiliferous, with some corals, Barren

Ls. - Tan - Lt. Gray, Fossiliferous, Subalar, DNS

Sh. - Gray - Bca

Ls. - Offwhite - Lt. Gray, Fossiliferous, Fossiliferous, with some corals, Barren

Sh. - BkK - Carb.

Ls. - Offwhite - Lt. Gray, Fossiliferous, Fossiliferous, with some corals, Barren

Ls. - Offwhite - Lt. Gray, Subalar, DNS

Sh. - Dek. Gray - BkK

Ls. - Tan - Gray, Subalar, DNS

Sh. - Gray - Bca - Gen

Ls. - Tan - Lt. Gray, Subalar, DNS

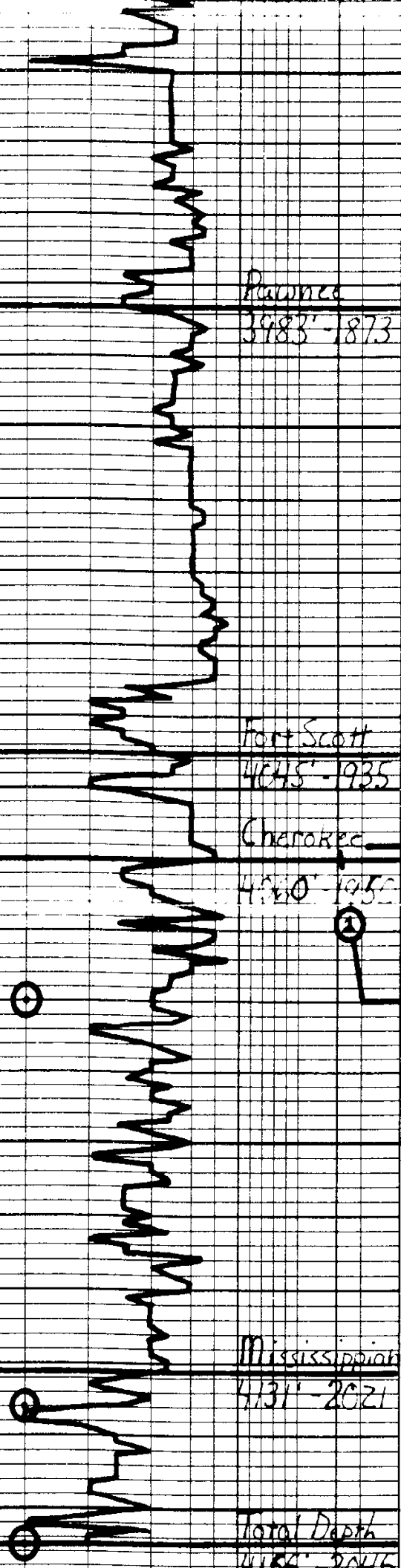
Sh. - Gray - Bca - Gen

Ls. - Tan - Gray, Subalar, DNS

Sh. - Gray - Bca

Ls. - Tan - Gray - Sh. Mottled, Subalar, DNS

3950  
60  
70  
80  
80  
4000  
10  
20  
30  
40  
4050  
60  
70  
80  
90  
4100  
10  
20  
30  
40  
4150



Pawnee  
3983' - 1873'

Fort Scott  
4045' - 1935'

Cherokee  
4058' - 4080'

Mississippian  
4131' - 2021'

Total Depth  
4150' - 2016'

Ls. Tan - Lt. Gray, Subaltr. DWS  
Sl. Whit - Tan, Sl. Barren

Ls. - s/a

Sh. Gray - Green

Ls. Tan - Lt. Gray, Subaltr. DWS  
Sl. Lt. Gray - Whit

Ls. - s/a

Ls. - s/a, Sl. Mottled

Ls. - s/a

Sh. Blk. Carb.

Ls. Tan - Lt. Gray, Ea. Subaltr.  
Sl. Whit - Tan, DWS

Sh. Dark Gray - Blk

74 SS - Gtz. Ea. Gr. Well Sorted, Barren  
Cemented, Well Rounded, w/ Bone  
- Gtz. in place, gr. & small oil st.  
- Gtz. in place, S.F. Lt. Green  
- Many Remains Gr. Small Cut Flints  
Sl. Lt. Gray - Green

SS - Gtz. Ea. - Med. Gr. - Coarse Gr.  
Fairly Sorted, Fairly Cemented,  
Sub. Rounded, w/ Bone - w/ small oil st.  
- Gtz. in place, S.F. Lt. Green, No Flints

SS - A - Gtz. Med. - Coarse Gr.  
Fairly Sorted, Poorly Cemented,  
Sub. Rounded, w/ Bone - w/ small oil st.  
- Gtz. in place, S.F. Lt. Green, No Flints

Sh. Gray - Green, Sl. Whit - Tan - Green

SS - Gtz. Ea. Gr. Well Sorted,  
Fairly Well Cemented, Well  
Rounded, w/ Bone - w/ small oil st.  
- Barren

Sh. Gray - Ben - Green, Sl. Whit - Tan

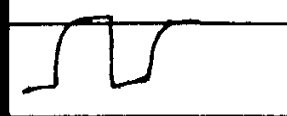
Dolo - AD - Offwhite - Lt. Gray, Ea.  
w/ no apparent waxy oil st.  
- Gtz. in place, S.F. Lt. Green, No Flints  
- Mostly Fresh, Barren

AD - Dolo - Offwhite - Lt. Gray, Ea.  
w/ no apparent waxy oil st.  
- Gtz. in place, S.F. Lt. Green, No Flints  
- Mostly Barren

**DST#1**

Cherokee "A" Sand  
4058' - 4080'  
30" - 45" - 30" - 45"

IH	2010#
IF	23-52# 808 16 min.
ISI	435# Dead
FF	50-70# 808 12 min.
FSI	412# Dead
FH	1966#
BNT	115°F
Recovery:	315' GIP 15' Clean Oil 75' MCO 70% Oil 60' 60CM 10% Oil



Respectfully,  
Horton  
5-22-2016







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Am Warrior  
P.O. Box 399  
Garden City, Ks  
67846  
ATTN: Jason Alm

**Seltman #4**  
**24-18s-21w/**  
Job Ticket: 38461      **DST#: 1**  
Test Start: 2010.05.20 @ 07:45:01

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.55 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5200.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20%G, 10%O, 70%M	0.559
75.00	MO 70%O, 30%M	1.052
15.00	FREE OIL 95%O, 5%M	0.210
0.00	315 GIP	0.000

Total Length: 150.00 ft      Total Volume: 1.821 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



# Pressure vs. Time

