



KANSAS CORPORATION COMMISSION 1048301  
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 # 31548  
Name: Discovery Drilling  
Wellsite Geologist: Jason Alm  
Purchaser: NCRA

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_  
05/14/2010    05/21/2010    09/13/2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-135-25059-00-00  
Spot Description: \_\_\_\_\_  
NW NE SE NW Sec. 24 Twp. 18 S. R. 21  East  West  
1,453 Feet from  North /  South Line of Section  
2,200 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ness  
Lease Name: Seltman Well #: 4  
Field Name: Pabst  
Producing Formation: Cherokee  
Elevation: Ground: 2102 Kelly Bushing: 2110  
Total Depth: 4156 Plug Back Total Depth: 4154  
Amount of Surface Pipe Set and Cemented at: 1330 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: 26000 ppm Fluid volume: 240 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: Deanne Garrison Date: 12/17/2010



1048301

Operator Name: American Warrior, Inc. Lease Name: Seltman Well #: 4  
 Sec. 24 Twp. 18 S. R. 21  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 checked="" type="checkbox"/> Yes <input 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: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
---	--

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	1330	SMD	450	1/4# Flocele
Production	7.875	5.5	15.5	4155	EA-2	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-2200	SMD	150	1/4# Flocele

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4072-4076 & 4083-4087	15,000# 16/30 gelled water	4072-4076 & 4083-4087
		sand frac	

TUBING RECORD: Size: <u>2.375</u> Set At: <u>4050</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>10/15/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>20</u>	Gas Mcf _____	Water Bbls. <u>80</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" 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: <u>4072-4076</u> <u>4083-4087</u>
---	--	--

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

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 WARRIOR  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 17939

PAGE 1 OF 1

SERVICE LOCATIONS 1. NESS CITY	WELL/PROJECT NO.	LEASE SELTMAN #4	COUNTY/PARISH NESS	STATE KS.	CITY BAZINE, KS	DATE 15 MAY 10	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR DISCOVERY DRILLING	RIG NAME/NO. RIG #3	SHIPPED VIA	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE CEMENT 8 5/8	WELL PERMIT NO.	WELL LOCATION HEIN 1 1/2 E 35 W 110		
4. 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	MIL	5	100	100
576D		1			PUMP CHARGE	1	1330 FT.	1100	100	1100
290		1			D-AIR	4	392	35	100	140
409		1			<del>CONNECTORS</del> TURBOIZERS	4	EA	90	100	360
412		1			BAGGIE PLATE 8 5/8	1	EA	100	100	100
410		1			TOP PLUG 8 5/8	1	EA	100	100	100
281		1			MUD FLUSH	500	Gal	1	100	500
221		1			KIDNEY PCL	2	Gal	25	100	50
276		1			FLOCCUL	115	100	1	150	172
330		1			SUNFILL MULTI DENSITY STANDARD	450	SKS	15	100	6750
331		1			SERVICE CHARGE MEMENT	450	SKS	1	150	675
233		1			DRAVAGE	441.29	115	441.29	100	441.29

**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 CUSTOMER'S 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	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	10488	79
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?				TAX		
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 15 APR 12 PAGE NO. 1

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE SELWIND #4 JOB TYPE CEMENT 9 1/2" 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 7/8" - 13"
								WELL 1330 SHOP ST. 9.00
								TISC 1330 CEMENTING 13 9/21
	1645							CIRCUIT
	1710	6	12		✓			Pump 500GPM 1710 PUMP
		6	20		✓			Pump 20 PPM KCL PUMP
	1715	6			✓			100 CEMENT.
			50 1/2		✓			100 SRS @ 11.5 PPM
			55		✓			150 SRS @ 12.7 PPM
			34		✓			100 SRS @ 13 PPM
			26.		✓			100 SRS @ 14.5 PPM
	1747							RELEASE PLUG
	1748	6			✓			DISPLACE PLUG
	1800	6	85		✓			PLUG DOWN.
								WASH TUB
	1900							JOB COMPLETE
								THANKS #110
								JASON RIGER TUB & WAGNER



CHARGE TO: Am...  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET  
17916

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Ness City, KS</u>	WELL/PROJECT NO. <u>4</u>	LEASE <u>S...</u>	COUNTY/PARISH <u>Al...</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>5-17-10</u>	OWNER
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>...</u>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <u>Alexander</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>...</u>	JOB PURPOSE <u>...</u>	WELL PERMIT NO.	WELL LOCATION <u>...</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
375		1			MILEAGE T.R. 4/14	25				5.00	125.00
578		1			Pump Change/ing	1				1400.00	1400.00
241		1			Liquid RCL	25				2.00	50.00
281		1			Mudfl...	500				1.00	500.00
402		1			Centralizer	5				55.00	275.00
403		1			Cement Packet	1				200.00	200.00
406		1			Latex Down Pump + Rifle	1				7.50	7.50
407		1			...	1				275.00	275.00
419		1			Rotating Head (New)	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

[Signature]  
 DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_  
 A.M.  P.M.

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

<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	<b>PAGE TOTAL</b>	3200.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					4000.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<b>TAX</b>	
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				<b>TOTAL</b>	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR: [Signature] APPROVAL: \_\_\_\_\_

Thank You!





**JOB LOG**

**SWIFT Services, Inc.**

DATE 5-2-11 PAGE NO. 1

CUSTOMER Amesbury Well WELL NO. 4 LEASE Saltman 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# Cement 1, 2, 3, 4, 77 TD 4156' R. H. 4 TP 4155' P. DJ 42'
	1245							Start 5 1/2" casing
	1430							Break Circulation
	1520	6 3/4	72	✓		200		Pump 500 gal Mudfluct + 20161 KCL
	1525	3	7	✓				Plug Rat Hole 30sks
	1530	3	5	✓				Plug Mouse Hole 20sks
	1535	4 1/2		✓		200		Start Cement 175sks @ 15.5 spg
	1545		30					Shutdown Release Plug with Pumps
	1550	6 3/4		✓		200		Start Displacement
		6 3/4	83	✓		300		Lift Cement
						750		Max Lift
	1605		97.8			1500		Land Plug - Release Hold
								Work Trench
	1630							Job Complete
								Thank you Bill, Dave + Rob



CHARGE TO: American Warrior I 1c.  
 ADDRESS: \_\_\_\_\_  
 CITY: STATE: ZIP: CODE: \_\_\_\_\_

TICKET  
17925

PAGE 1 OF \_\_\_\_\_

SERVICE LOCATIONS: 1. Ness City KS WELL/PROJECT NO: 4 LEASE: Seltman COUNTY/PARISH: Ness STATE: KS CITY: Ness City DATE: 6-1-10 OWNER: \_\_\_\_\_  
 2. TICKET TYPE:  SERVICE  SALES CONTRACTOR: \_\_\_\_\_ RIG NAME/NO: \_\_\_\_\_ SHIPPED VIA: \_\_\_\_\_ DELIVERED TO: Barine ORDER NO.: \_\_\_\_\_  
 3. WELL TYPE: Oil WELL CATEGORY: Development JOB PURPOSE: Cement Between 8 5/8" + 5 1/2" WELL PERMIT NO.: \_\_\_\_\_ WELL LOCATION: Barine 4E 2N, 18E KS  
 4. REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM.		UNIT PRICE	AMOUNT
		LOC.	ACCT.	DF.							
575		1			MILEAGE Trk #114	25	mi			5.00	125.00
577		1			Pump Charge	1	lea			850.00	850.00
581		1			Service Charge Cement	150	skt			1.50	225.00
582		1			Minimum Drayage Charge	1	lea			250.00	250.00
330		1			Swift Multi-Density Standard	150	skt			15.00	2250.00
276		1			Flocele	40	16s			1.50	60.00
290		1			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  
 X Scott  
 DATE SIGNED: 6-1-10 TIME SIGNED: 1530 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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				3830.00
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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

TAX: 15.3% 126.14  
 TOTAL: 3956.14

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



# **Geological Report**

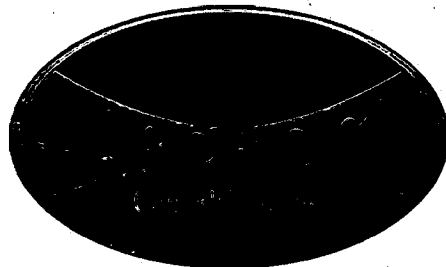
American Warrior, Inc.

**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

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

## 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**

	American Warrior, Inc. Seltman #4 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	
<b>Formation</b>					
Anhydrite	1317', +793	NA	NA	1315', +799	(-6)
Base	1351', +760	NA	NA	NA	NA
Heebner	3543', -1433	3522', -1426	(-7)	3545', -1431	(-2)
Lansing	3588', -1478	3566', -1470	(-8)	3590', -1476	(-2)
BKc	3899', -1789	NA	NA	NA	NA
Pawnee	3983', -1873	NA	NA	NA	NA
Fort Scott	4044', -1934	NA	NA	4044', -1930	(-4)
Cherokee	4060', -1950	4055', -1959	(+9)	4062', -1948	(-2)
Mississippian	4130', -2020	4118', -2022	(+2)	4132', -2018	(-2)

## 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>
-------------------------	------------------------	---------------

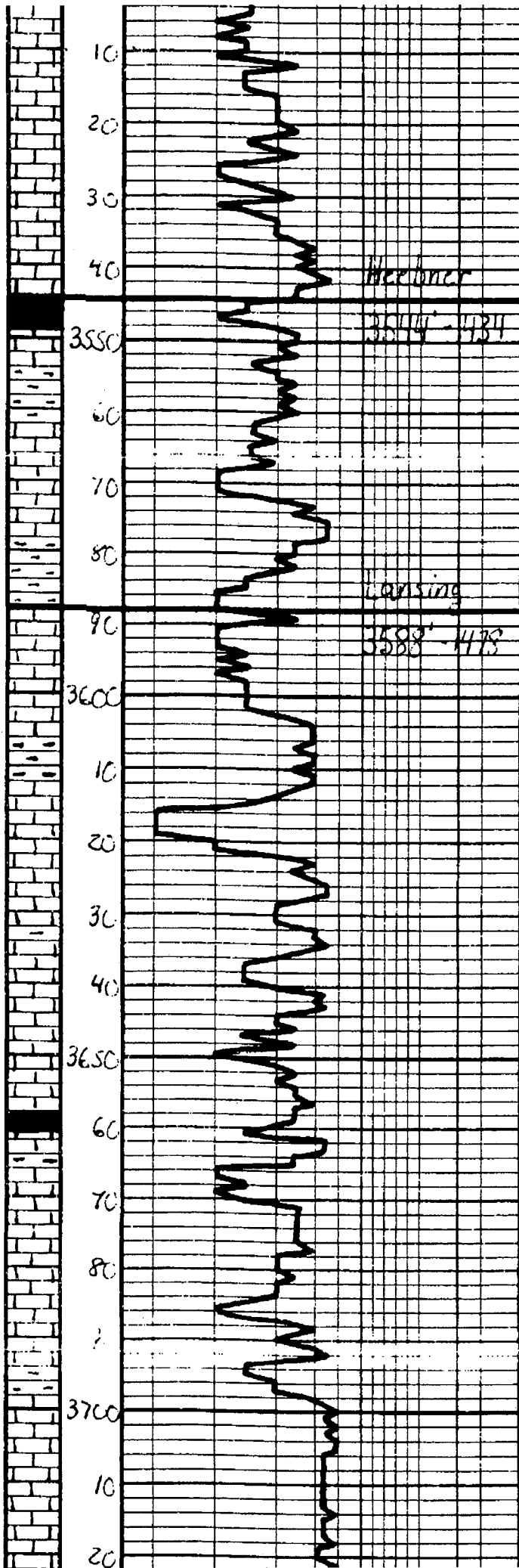
Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.



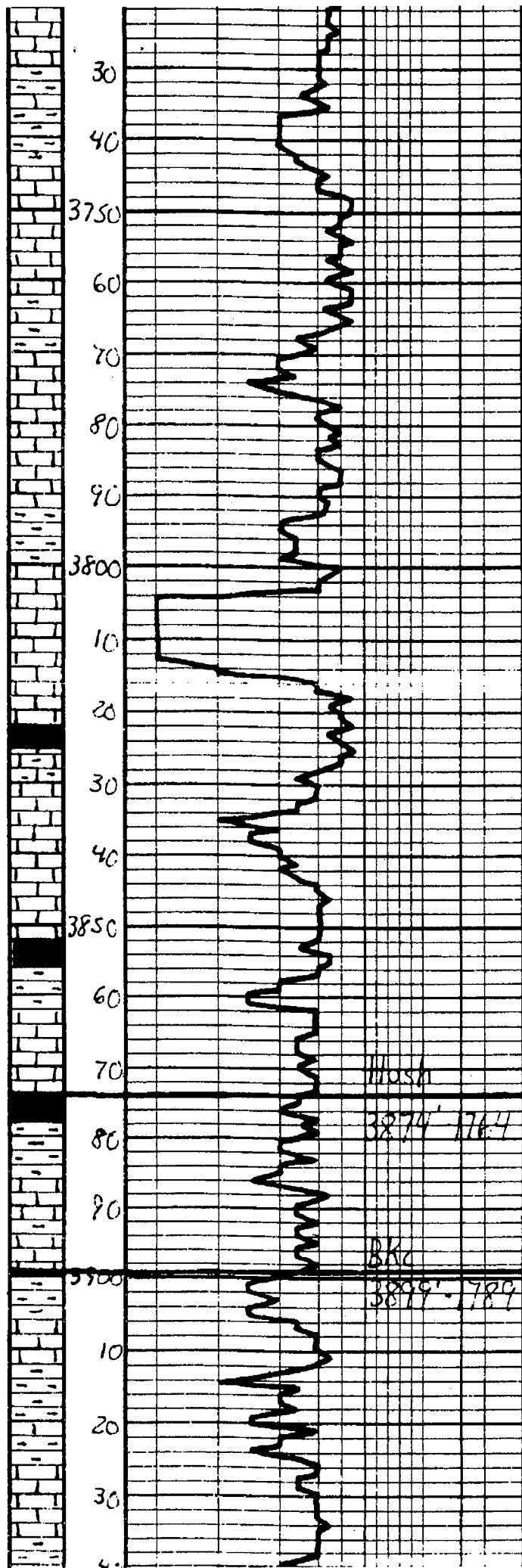




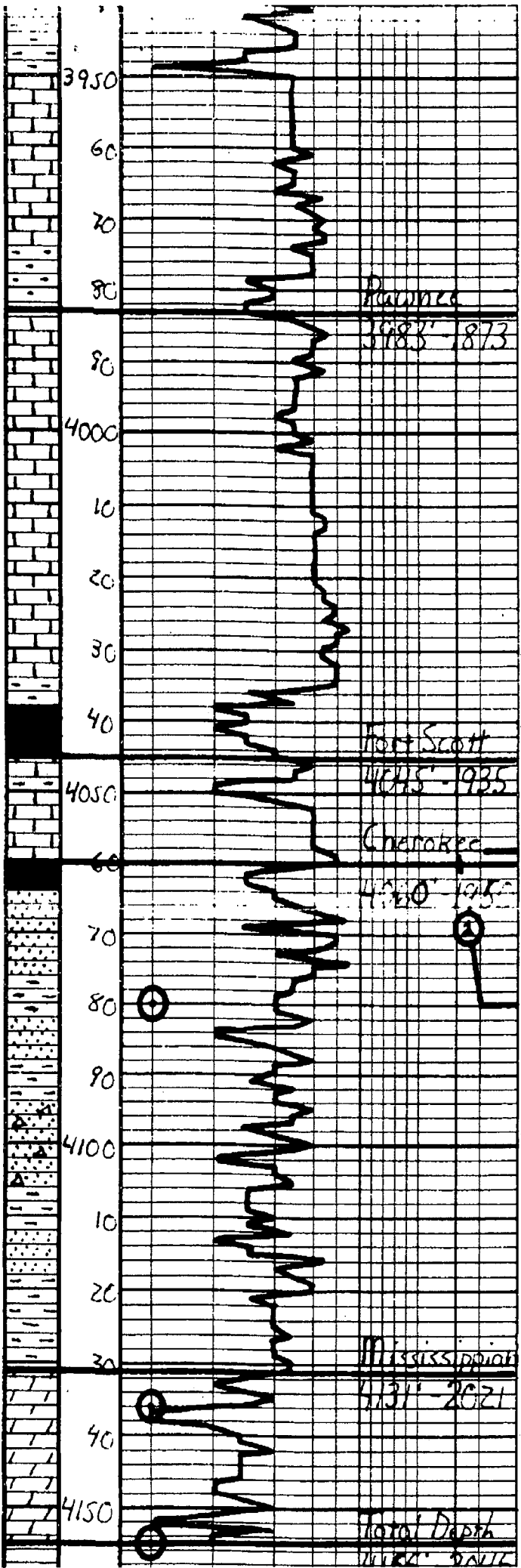


15 - Tan - gray, fine gr. Mottled chalky	3550
15 - clay, sil. fossil	
Sh - Blk. Carb.	
Sh - Gray - Bla. - carb.	
15 - Tan - gray, fine gr. Mottled chalky, sil. fossil, sil. fossil, sil. fossil, sil. fossil	
Sh - gray - Bla. - carb.	
15 - Tan - gray, fine gr. Mottled chalky, sil. fossil, sil. fossil, sil. fossil, sil. fossil	
Sh - Gray - Bla.	
15 - Tan - gray, fine gr. Mottled chalky, sil. fossil, sil. fossil, sil. fossil, sil. fossil	
15 - clay, sil. fossil	
15 - Off white - Lt. gray, fine gr. Mottled chalky, sil. fossil, sil. fossil, sil. fossil, sil. fossil	
Sh - Dark gray - Blk.	
15 - Tan - Lt. gray, fine gr. Mottled chalky, sil. fossil, sil. fossil, sil. fossil, sil. fossil	
15 - white	
Sh - Gray - Bla.	
15 - Tan - gray, fine gr. Mottled chalky, sil. fossil, sil. fossil, sil. fossil, sil. fossil	

Leona Louisa  
 @ 1:00 p.m. 5-19-2010



LS. ala	
Sh. Ddk Gray - Blk	
LS. Tan - Lt Gray, Subaltr. DNS	
Sh. Ddk Gray - Gray	
LS. Offwh. Lt Gray, Fossiliferous, fossiliferous, w/ poor conch. f. Barren	
LS. Tan - Lt Gray, Fossiliferous, Subaltr. DNS	
Sh. Gray - Ben	
LS. Offwh. Lt Gray, Fossiliferous, fossiliferous, w/ poor conch. f. Barren	
Sh. Blk Carb.	
LS. Offwh. Lt Gray, Fossiliferous, fossiliferous, w/ poor conch. f. Barren	
LS. Offwh. Lt Gray, Subaltr. DNS	
Sh. Ddk Gray - Blk	
LS. Tan - Gray, Subaltr. DNS	
Sh. Gray - Ben - Gen	
LS. Tan - Lt Gray, Subaltr. DNS	
Sh. Gray - Ben - Gen	
LS. Tan - Gray, Subaltr. DNS	
Sh. Gray - Ben	
LS. Tan - Gray - Sh. Mottled, Subaltr. DNS	



L.S. Tan - Lt. gray, Subal. Div. 5  
S. Whit - Tan, Sh. Brown

L.S. - a/a

Sh - Gray - Green

L.S. Tan - Lt. gray, Subal. Div. 5  
S. Whit - Tan, Sh. Brown

L.S. - a/a

L.S. - a/a, Sl. Mottled

L.S. - a/a

Sh - Blk. Carb.

L.S. Tan - Lt. gray, Ea. Subal.  
S. Whit - Tan, Sh. Brown

Sh - Darker - Blk

74  
SS - Gtz. Fm. In Well Suetech, Borden  
Cemented, Well cemented, in Borden  
- (partly) in place, in Borden  
- Set in place, in Borden  
- Many thin layers of, in Borden  
- Sh. - in place

SS - Gtz. Fm. - Med. Gr. - Fractured,  
Partly Suetech, Borden  
- Sub. cemented, in Borden  
- of 1/2" - 1" heavy oil - set, in Borden  
- of Oil, Fract. in place, in Borden

Sh - Gray - Ben - Green, Lt. Whit - Yellow

SS - Gtz. Fm. In Well Suetech  
- Fractured, in Borden  
- Cemented, in Borden  
- of 1/2" - 1" heavy oil - set, in Borden  
- of Oil, Fract. in place, in Borden

Sh - Gray - Ben - Green, Lt. Whit - Yellow

Dk. - AV - Oil - in place, in Borden  
- Fract. in place, in Borden  
- of 1/2" - 1" heavy oil - set, in Borden  
- of Oil, Fract. in place, in Borden

AV - Dk. - Oil - in place, in Borden  
- Fract. in place, in Borden  
- of 1/2" - 1" heavy oil - set, in Borden  
- of Oil, Fract. in place, in Borden

**DST #1**  
Cherokee "A" Sand  
4058' - 4080'  
30" - 45" - 30" - 45"

IW	2010#
IF	23-52# 808 1/6 Min.
ISL	435# Dead
FF	50-70# 808 1/2 Min.
FSI	412# Dead
PH	1966#
BHT	115°F
Recovery:	
	315' GIP
	15' Clean Oil
	75' MLO 70% Oil
	60' GOCM 10% Oil

Respectfully,  
Newton  
11-5-77-2010





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

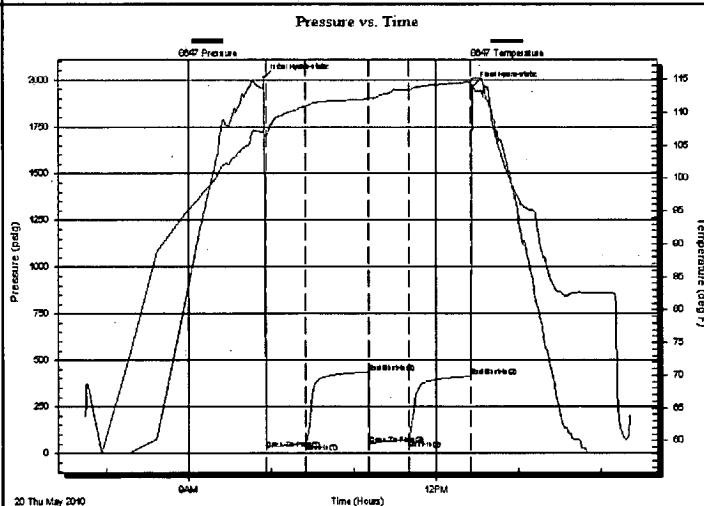
**Seltman #4**  
**24-18s-21w/**  
Job Ticket: 38461      **DST#: 1**  
Test Start: 2010.05.20 @ 07:45:01

### GENERAL INFORMATION:

Formation: **Cher "A" Sand**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 09:56:26  
Time Test Ended: 14:21:55  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
Interval: **4058.00 ft (KB) To 4080.00 ft (KB) (TVD)**  
Reference Elevations: 2110.00 ft (KB)  
Total Depth: 4080.00 ft (KB) (TVD)                      2102.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition:                      KB to GR/CF: 8.00 ft

**Serial #: 8647      Inside**  
Press@RunDepth: 70.40 psig @ 4062.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.05.20      End Date: 2010.05.20      Last Calib.: 2010.05.20  
Start Time: 07:45:01      End Time: 14:21:55      Time On Btm: 2010.05.20 @ 09:55:26  
Time Off Btm: 2010.05.20 @ 12:26:55

TEST COMMENT: IFP - BOB 16 min.  
ISI - no blow back  
FFP - BOB 12 min.  
FSI - no blow back



### PRESSURE SUMMARY

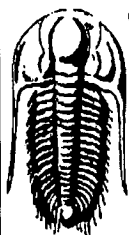
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.58	106.91	Initial Hydro-static
1	23.48	106.14	Open To Flow (1)
30	52.47	110.89	Shut-In(1)
75	435.13	111.97	End Shut-In(1)
76	49.98	112.14	Open To Flow (2)
105	70.40	113.33	Shut-In(2)
150	411.57	114.53	End Shut-In(2)
152	1965.67	115.06	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%G, 10%O, 70%M	0.56
75.00	MO 70%O, 30%M	1.05
15.00	FREE OIL 95%O, 5%M	0.21
0.00	315 GIP	0.00

### Gas Rates

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



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

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Am Warrior

**Seltman #4**

P.O. Box 399  
Garden City, Ks  
67846

**24-18s-21w/**

Job Ticket: 38461

**DST#: 1**

ATTN: Jason Alm

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:

bbbl

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:



