



KANSAS CORPORATION COMMISSION 1093964  
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: Joe Smith  
Phone: ( 620 ) 275-2963  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Jeff Lawer  
Purchaser: NRCA

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 (Corr, 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 #: \_\_\_\_\_

<u>08/11/2012</u>	<u>08/17/2012</u>	<u>08/31/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-179-21317-00-00

Spot Description: \_\_\_\_\_  
SW SW NE NE Sec. 11 Twp. 10 S. R. 26  East  West  
1020 Feet from  North /  South Line of Section  
1300 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: Sheridan  
Lease Name: E. Bittel Well #: 4

Field Name: \_\_\_\_\_  
Producing Formation: Lansing

Elevation: Ground: 2576 Kelly Bushing: 2581  
Total Depth: 4202 Plug Back Total Depth: 4146

Amount of Surface Pipe Set and Cemented at: 217 Feet  
Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 2191 Feet  
If Alternate II completion, cement circulated from: 2191  
feet depth to: 0 w/ 150 sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)

Chloride content: 14000 ppm Fluid volume: 60 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 Gantner Date: 09/20/2012



1093964

Operator Name: American Warrior, Inc. Lease Name: E. Bittel Well #: 4  
 Sec. 11 Twp. 10 S. R. 26  East  West County: Sheridan

**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 type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhy</td> <td>2209'</td> <td>+397</td> </tr> <tr> <td>B/Anhy</td> <td>2244'</td> <td>+337</td> </tr> <tr> <td>Topeka</td> <td>3590'</td> <td>-1009</td> </tr> <tr> <td>Heebner</td> <td>3'804'</td> <td>-1223</td> </tr> <tr> <td>Lansing</td> <td>3842'</td> <td>-1261</td> </tr> <tr> <td>Stark</td> <td>4035'</td> <td>-1454</td> </tr> <tr> <td>B/KC</td> <td>4074'</td> <td>-1493</td> </tr> </table>	Name	Top	Datum	Anhy	2209'	+397	B/Anhy	2244'	+337	Topeka	3590'	-1009	Heebner	3'804'	-1223	Lansing	3842'	-1261	Stark	4035'	-1454	B/KC	4074'	-1493
Name	Top	Datum																							
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Stark	4035'	-1454																							
B/KC	4074'	-1493																							

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	12.250	8.625	20	217	Common	150	
Production	7.875	5.50	15.5	4169	EA-2	125	

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	4007' to 4010'		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>4139'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>09/11/2012</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>5</u>	Gas Mcf <u>0</u> Water Bbls. <u>5</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-1B.)</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>4007' to 4010'</u>
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	E. Bittel 4
Doc ID	1093964

All Electric Logs Run

Dual Induction
Porosity
Sonic
Micro

Scale 1:240 Imperial

Well Name: E. BITTEL #4  
Surface Location: SW SW NE NE 11-10S-26W  
Bottom Location:  
API: 15-179-21317-0000  
License Number: 4058  
Spud Date: 8/11/2012 Time: 11:00 PM  
Region: SHERIDAN  
Drilling Completed: 8/17/2012 Time: 4:05 AM  
Surface Coordinates: 1020' FNL & 130' FEL  
Bottom Hole Coordinates:  
Ground Elevation: 2576.00ft  
K.B. Elevation: 2581.00ft  
Logged Interval: 3200.00ft To: 4202.00ft  
Total Depth: 4200.00ft  
Formation:  
Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: AMERICAN WARRIOR INC.  
Address: 3118 CUMMINGS ROAD  
GARDEN CITY, KS 67846  
Contact Geologist: CECIL O'BRATE  
Contact Phone Nbr: (620) 275-2963  
Well Name: E. BITTEL #4  
Location: SW SW NE NE 11-10S-26W API: 15-179-21317-0000  
Pool: CUSTER WEST  
State: KANSAS Country: USA

**SURFACE CO-ORDINATES**

Well Type: Vertical  
Longitude: -100.1867692 Latitude: 39.2017578  
N/S Co-ord: 1020' FNL  
E/W Co-ord: 130' FEL

**LOGGED BY**



Company: SOLUTIONS CONSULTING  
Address: 108 W 35TH  
HAYS, KS 67601  
Phone Nbr: (785)259-3737  
Logged By: Geologist Name: JEFF LAWLER

**CONTRACTOR**

Contractor: WW DRILLING, LLC  
Rig #: 6  
Rig Type: MUD ROTARY  
Spud Date: 8/11/2012 Time: 11:00 PM  
TD Date: 8/17/2012 Time: 4:05 AM  
Rig Release: 8/18/2012 Time: 12:00 AM

**ELEVATIONS**

K.B. Elevation: 2581.00ft Ground Elevation: 2576.00ft  
K.B. to Ground: 5.00ft

**NOTES**

THIS LOCATION WAS A SIEMIC LOCATION. DUE TO ECONOMICAL RECOVERY AND PRESSURES ON ALL THREE DST'S 5 1/2" PRODUCTION CASING WAS RAN.

**PRIMARY PERFORATION RECOMMENDATIONS:**

LANSING-KANSAS CITY: 3844 - 3846  
 3921 - 3927  
 3978 - 3982  
 4007 - 4010

**SECONDARY RECOMMENDATIONS AND PRIOR TO ABANDONMENT:**

TORONTO: 3530 - 3532  
 3591 - 3595  
 3827 - 3829

LKC: 3872 - 3876  
 3931 - 3931  
 4023 - 4025  
 4044 - 4046


ANY OTHER INTERVALS THAT MAY HAVE HAD AN OIL SHOW SHOULD ALSO BE TESTED WITH PERFORATION BEFORE ABANDONMENT.

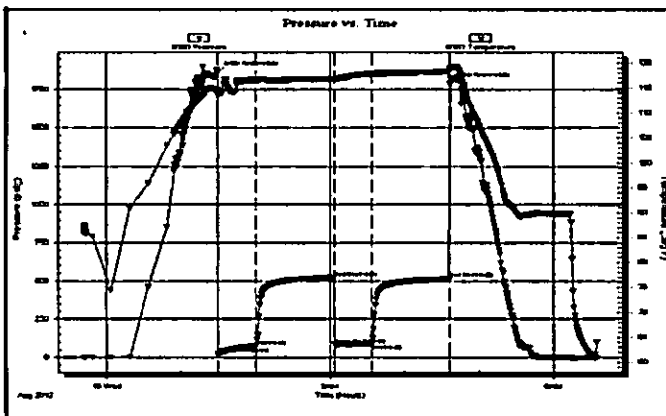
RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

**WELL COMPARISON SHEET**

		P&A NOV. 2007				P&A NOV. 2007				P&A NOV. 2007				P&A NOV. 2007							
		PETROLEUM INC.				PETROLEUM INC.				PETROLEUM INC.				ENERGY DEPOSITION INC.							
		E BITTEL #2				E BITTEL #1				E BITTEL #3				W.E. BITTEL #1							
		SE NE NE 11-10-26				NW NE NE 11-10-26				NW SE NE 11-10-26				S2 SW NE 11-10-26							
		2581				2571				2547				2593				2547			
FORMATION	DEPTH	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM
ANHYDRITE TOP	2209	2208	373	2198	373	0	2174	373		0	2221	372		1	2230	317		56			
BASE	2244	2232	349	2232	339	10	2207	340		9	2253	340		9	2263	284		65			
TOPEKA	3290	3280	999	3266	995	4	3250	1009		4	3600	1007		8	3608	1001		62			
HEEDNER SHALE	3804	3803	-1222	3786	-1215	7	3763	-1216		6	3812	-1219		5	3823	-1276		54			
TORONTO	3826	3831	-1250	3807	-1236	14	3784	-1237		13	3834	-1241		9	3844	-1297		47			
LKC	3842	3846	-1265	3823	-1252	19	3801	-1254		11	3850	-1257		8	3859	-1312		47			
LKCH	3978	3986	-1405	3952	-1386	19	3938	-1391		14					4053	-1506		101			
STARK SHALE	4035	4041	-1460	4011	-1440	20	3992	-1445		15	4040	-1447		13	4095	-1548		88			
BKC	4074	4077	-1496	4053	-1482	14	4034	-1487		9	4084	-1491		5	4151	-1604		108			
RTD		4200	-1619	4092	-1521	98	4070	-1523		96	4125	-1532		87							
LTD	4282																				

**DST #1 TORONTO LKC A-B 3800' - 3865'**

 <p><b>TRILOBITE TESTING, INC.</b></p>	<p><b>DRILL STEM TEST REPORT</b></p>	
	<p>American Warrior</p> <p>PO Box 399 Garden City KS 67846</p> <p>ATTN: Jeff Lawler</p>	<p>11-10s-26w Sheridan, KS</p> <p>E. Bittel #4</p> <p>Job Ticket: 48820      <b>DST#: 1</b></p> <p>Test Start: 2012.08.14 @ 23:42:00</p>
<p><b>GENERAL INFORMATION:</b></p>		
<p>Formation: Toronto / LKC " A</p> <p>Deviated: No Whipstock      ft (KB)</p> <p>Time Tool Opened: 01:29:40</p> <p>Time Test Ended: 06:34:39</p>	<p>Test Type: Conventional Bottom Hole (Initial)</p> <p>Tester: WJ MacLean</p> <p>Unit No: 40</p>	<p>Reference Elevations: 2581.00 ft (KB)</p> <p>2576.00 ft (CF)</p> <p>KB to GRACF: 5.00 ft</p>
<p>Interval: 3800.00 ft (KB) To 3865.00 ft (KB) (TVD)</p> <p>Total Depth: 3865.00 ft (KB) (TVD)</p> <p>Hole Diameter: 7.88 inches Hole Condition: Good</p>	<p>Serial #: 8360      Inside</p> <p>Press@RunDepth: 89 87 psig @ 3801.00 ft (KB)</p> <p>Start Date: 2012.08.14      End Date: 2012.08.15</p> <p>Start Time: 23:42:00      End Time: 06:34:39</p>	
<p>Capacity: 8000.00 psig</p> <p>Last Calib: 2012.08.15</p> <p>Time On Btm: 2012.08.15 @ 01:29:25</p> <p>Time Off Btm: 2012.08.15 @ 04:36:24</p>	<p><b>TEST COMMENT:</b> F- Surface Blow Built to 4 1/4"</p> <p>IS- No Blow</p> <p>FF- Weak Surface Blow Built to 1"</p> <p>FS- No Blow</p>	



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.42	114.73	Initial Hydro-static
1	21.22	113.54	Open To Flow (1)
31	73.67	116.52	Shut-in(1)
94	523.67	116.77	End Shut-in(1)
95	83.91	116.64	Open To Flow (2)
124	89.87	117.60	Shut-in(2)
187	515.61	118.30	End Shut-in(2)
187	1769.31	118.93	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	100% m with Oil Spots	0.30
60.00	100% m with Oil Spots	0.30
35.00	100m	0.48

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mc/Kd)

Trilobite Testing, Inc

Ref. No: 48820

Printed: 2012.08.15 @ 08:03:39

**DST #2 LKC C-G 3865' - 3930'**



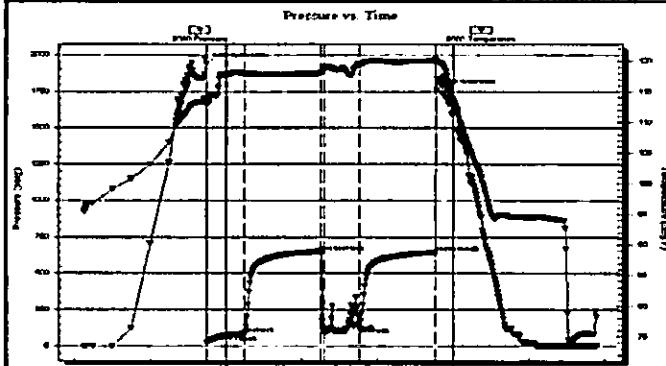
**DRILL STEM TEST REPORT**

American Warrior 11-10s-26w Sheridan Co. KS  
 P.o Box 399 E. Bittel #4  
 Garden City KS 67846 Job Ticket: 48821 DST#: 2  
 ATTN: Jeff Lawler Test Start: 2012.08.15 @ 16:08:00

**GENERAL INFORMATION:**  
 Formation: **LKC "C - G"**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: **17:44:55** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Test Ended: **22:53:54** Tester: **WJ MacLean**  
Unit No: **40**  
 Interval: **3865.00 ft (KB) To 3930.00 ft (KB) (TVD)** Reference Elevations: **2581.00 ft (KB)**  
 Total Depth: **3930.00 ft (KB) (TVD)** **2576.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GRCP: **5.00 ft**

**Serial #: 8360** Inside  
 Press@RunDepth: **124.90 psig @ 3868.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.08.15** End Date: **2012.08.15** Last Calib.: **2012.08.15**  
 Start Time: **16:08:00** End Time: **22:53:54** Time On Btm: **2012.08.15 @ 17:44:40**  
Time Off Btm: **2012.08.15 @ 20:46:39**

**TEST COMMENT:** F- Surface Blow Built to 6 1/4"  
 IS- No Blow  
 FF- Weak Surface Blow Built to 4"  
 FS- No Blow



PRESSURE SUMMARY			
Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.24	113.73	Initial Hydro-static
1	22.60	112.96	Open To Flow (1)
31	84.18	117.90	Shut-in(1)
91	652.34	118.05	End Shut-in(1)
93	99.19	118.79	Open To Flow (2)
122	124.90	119.42	Shut-in(2)
181	643.88	120.08	End Shut-in(2)
182	1756.85	120.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	OGCM 2%oil 9%g 89%m	0.30
60.00	OGCM 3%oil 15%g 82%m	0.30
12.00	OGCM 2%oil 4%g 96%m	0.16
10.00	GO 7%g 93%oil	0.14
0.00	98' of GP	0.00

\* Recovery from multiple tests


Trilobite Testing, Inc

Ref. No: 48821

Printed: 2012.08.16 @ 07:48:42

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

**DST #3 LKC H-J 3972' - 4045'**



**TRILOBITE TESTING, INC**

### DRILL STEM TEST REPORT

**11-10s-26w Sheridan Co. KS**

**E. Bittel #4**

Job Ticket: 48822      **DST#: 3**

Test Start: 2012.08.16 @ 09:20:00

American Warrior

P.O. Box 399  
Garden City KS 67846

ATTN: Jeff Lawler

11-10s-26w Sheridan Co. KS

E. Bittel #4

Job Ticket: 48822      **DST#: 3**

Test Start: 2012.08.16 @ 09:20:00

**GENERAL INFORMATION:**

Formation: **LKC "H-J"**

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

Test Type: **Conventional Bottom Hole (Reset)**

Time Tool Opened: **10:52:10**

Tester: **WJ MacLean**

Time Test Ended: **17:51:24**

Unit No: **40**

Interval: **3972.00 ft (KB) To 4045.00 ft (KB) (TVD)**

Reference Elevations: **2581.00 ft (KB)**

Total Depth: **4045.00 ft (KB) (TVD)**      **2578.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**      **KB to GR/CF: 5.00 ft**

Serial #: **8360**      **Inside**

Press@RunDepth: **349.66 psig @ 3973.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.08.16**      End Date: **2012.08.16**

Start Time: **09:20:00**      End Time: **17:51:24**

2012.08.16      **2012.08.16**

Time On Btm: **2012.08.16 @ 10:51:55**

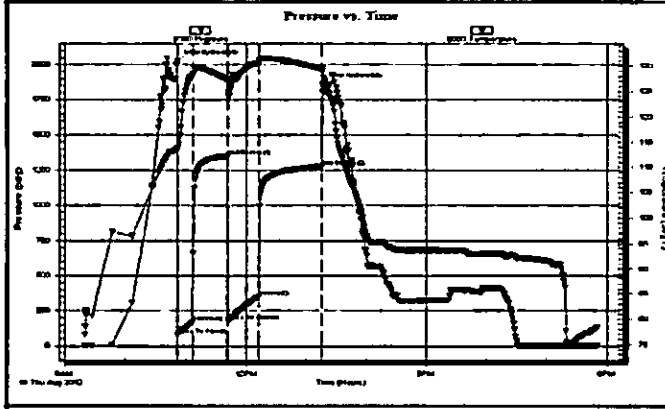
Time Off Btm: **2012.08.16 @ 13:16:10**

**TEST COMMENT:** IF- Strong Surface Blow Built to BOB in 1 3/4min      Gas to Surface in 44min on FSI

IS- Surface Blow Built to BOB in 10 1/2min

FF- Strong Surface Blow Built to BOB in 2min      Reversed oil into a Truck

FSI- Surface Blow Built to BOB in 11 1/4min



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.74	113.82	Initial Hydro-static
1	77.69	113.44	Open To Flow (1)
15	168.34	128.10	Shut-in(1)
50	1351.37	127.37	End Shut-in(1)
51	178.19	124.78	Open To Flow (2)
81	349.66	130.58	Shut-in(2)
144	1276.94	129.53	End Shut-in(2)
145	1859.44	129.69	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	WOGCM 4%w 15%oil 28%g 53%m	0.59
548.00	GO 40%g 60%oil	7.68
183.00	GO 46%g 54%oil	2.57
61.00	OG 47%oil 53%g	0.86
0.00	2924 of GP	0.00

\* Recovery from multiple tests








Trilobite Testing, Inc

Ref. No: 48822

Printed 2012.08.17 @ 00:07:46

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

**ROCK TYPES**

 Dolprim	 Lmst fw7> shale, gm	 Carbon Sh shale, red	 Ss Arg/Shale
 Dolsec	 Lmst fw<7 shale, gry	 Shcol	

**ACCESSORIES**

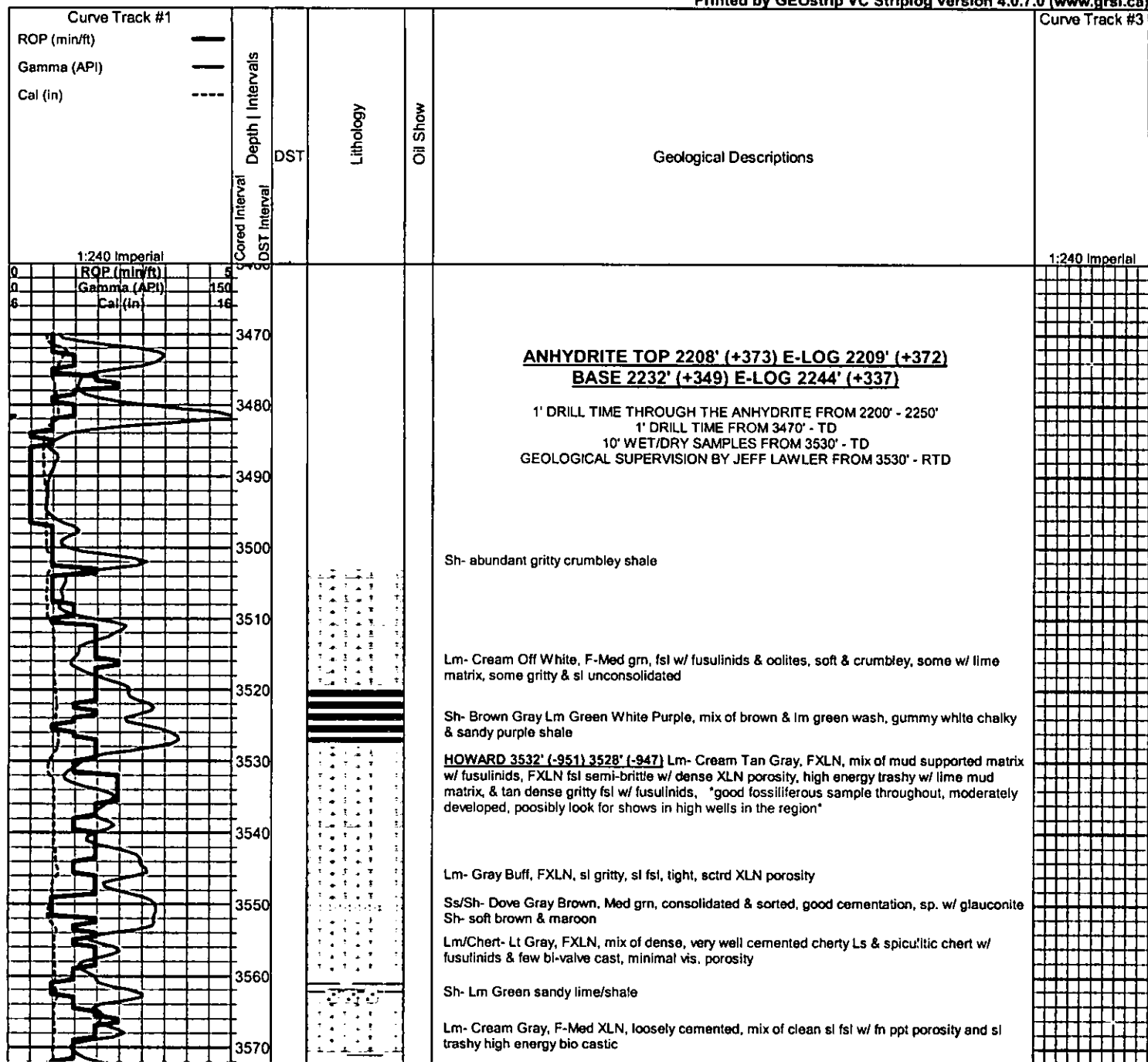
<b>MINERAL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
• Sandy	--- Chert — Shale — red shale	C Chalky

**OTHER SYMBOLS**

**DST**

■ DST Int
■ DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



**ANHYDRITE TOP 2208' (+373) E-LOG 2209' (+372)**  
**BASE 2232' (+349) E-LOG 2244' (+337)**

1' DRILL TIME THROUGH THE ANHYDRITE FROM 2200' - 2250'  
 1' DRILL TIME FROM 3470' - TD  
 10' WET/DRY SAMPLES FROM 3530' - TD  
 GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3530' - RTD

Sh- abundant gritty crumbley shale

Lm- Cream Off White, F-Med grn, fsl w/ fusulinids & oolites, soft & crumbley, some w/ lime matrix, some gritty & sl unconsolidated

Sh- Brown Gray Lm Green White Purple, mix of brown & lm green wash, gummy white chalky & sandy purple shale

**HOWARD 3532' (-951) 3528' (-947)** Lm- Cream Tan Gray, FXLN, mix of mud supported matrix w/ fusulinids, FXLN fsl semi-brittle w/ dense XLN porosity, high energy trashy w/ lime mud matrix, & tan dense gritty fsl w/ fusulinids, \*good fossiliferous sample throughout, moderately developed, possibly look for shows in high wells in the region\*

Lm- Gray Buff, FXLN, sl gritty, sl fsl, tight, sctrd XLN porosity

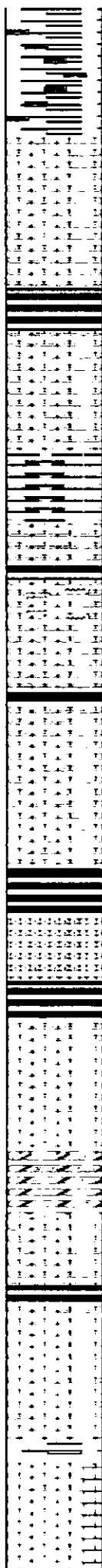
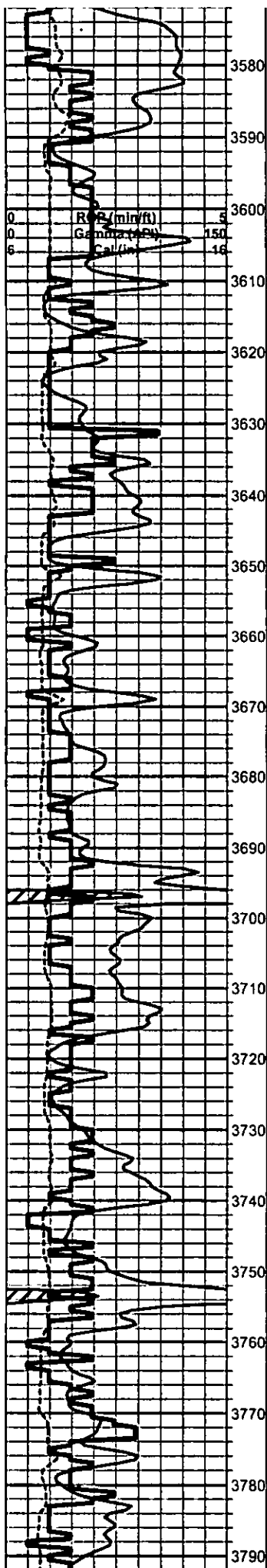
Ss/Sh- Dove Gray Brown, Med grn, consolidated & sorted, good cementation, sp. w/ glauconite  
 Sh- soft brown & maroon

Lm/Chert- Lt Gray, FXLN, mix of dense, very well cemented cherty Ls & spiculitic chert w/ fusulinids & few bi-valve cast, minimal vis. porosity

Sh- Lm Green sandy lime/shale

Lm- Cream Gray, F-Med XLN, loosely cemented, mix of clean sl fsl w/ fn ppt porosity and sl trashy high energy bio castic





Sh- Abundant gray wash, sticky argillaceous

**TOPEKA 3580' (-999) E-LOG 3590' (-1009)** Lm- Cream Tan, F-Med XLN, oolitic, moderately developed, mix of densely packed oolites in mud matrix, soft & crumbley, and Med XLN, oolitic w/ sctrd pearl shaped oolite clusters w/ loose cementation, sctrd fn ppt porosity, clean & barren

Lm- Cream Tan Gray, FXLN, mix of densely packed oolitic micrite in sparry cement, FXLN oolitic w/ mod. development, loosely cemented w/ sctrd fn ppt porosity, no shows noted

Dolomite- Tan, VFXLN, tight, consistant vry fn ppt porosity, clean & barren

Lm/Chert- Gray, mostly FXLN Ls, dense & well cemented, heavily mottled, few chips of cherty Ls & fst bioclastic chert

Lm- Cream Tan, FXLN, dense fenestral XLN porosity & secondary XLN porosity, sl fsl, & gritty FXLN sl dolomitic Ls, no shows noted

Sh- Lm Green White, abundant soft white chalk

Lm/Chert- FXLN, dense, granular & oolitic, lime mud matrix, loosely cemented, sctrd fn ppt porosity, sl dolomitic white chert

A/A, abundant soft white chalk

Lm- Cream, FXLN, dense & well cemented, few w/ sctrd recrystallized veins, very minimal visible porosity, tight & clean

Lm- Cream Tan, FXLN & VF gm., mix of dense, semi-brittle sl siliceous, heavily mottled & dirty and soft calcareous, chalky matrix, sl. mineral flor. no wet cut

Sh- Black Brown, very soft, fissile, carbonaceous

Ss- Dove Gray Off White, soft, very friable, lime matrix, consolidated & sorted

Lm- Off White Cream Buff, mix of FXLN sl cherty fsl Ls, fsl gritty sl dolomitic chert, and VF-FXLN semi-brittle tight w/ no vis. porosity Ls

Lm- Cream Off White, Med XLN, granular, moderately well GD development, fsl w/ fusulnids, consistant ppt por. clean & barren

Lm/Dolomite- VFXLN, densely packed oolites in tight siliceous matrix, VFXLN very well cemented tight dolomite w/ consistant vry fn ppt porosity, abundant white soft chalk & interbedd thin shale lense

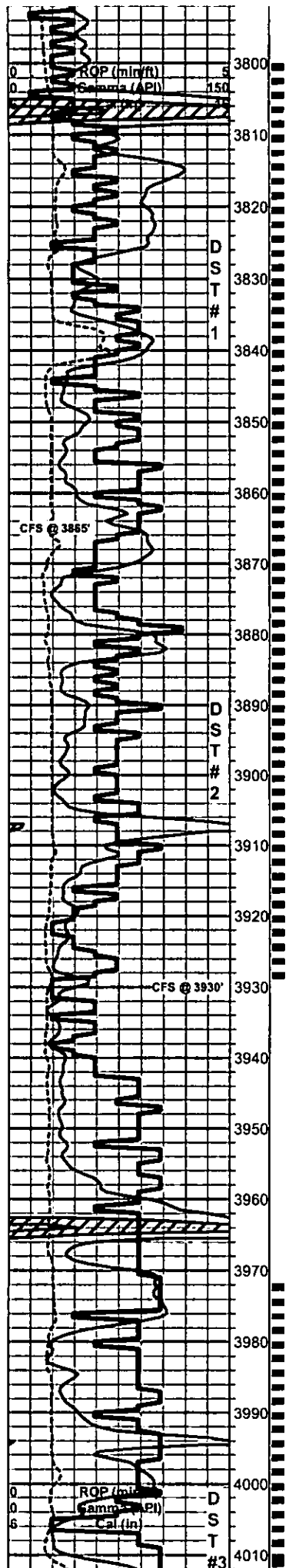
Sh- Black Red Gray, fissile, carbonaceous, soft gritty & earthy

Lm- Cream Buff, VFXLN, dense, very well cemented, some w/ rare XLN porosity, tight, no vis. porosity

Lm- Cream Tan, F-Med XLN, oolitic, mix of densely packed oolites in sparry cement, tight w/ no visible porosity, loosely cemented & crumbley w/ lime matrix, & Med XLN, dense & tight, sctrd fn ppt porosity, clean & barren

Sh- abundant white chalk

Lm- Cream, FXLN, oolitic, well cemented, sl oolitic w/ very little skeletal dissolution, poor intracastic connectivity, sctrd fn ppt porosity, clean & barren



Lm- Cream Tan, VF-FXLN, very well cemented & tight, sctrd XLN porosity

**HEEBNER 3803' (-1222) E-LOG 3804' (-1223) Sh- Black Gray Maroon, fissile & slaty, carbonaceous, gritty & earthy, soft**

**TORONTO 3831' (-1250) E-LOG 3826' (-1245) Lm- VF-FXLN, sctrd development, mix of crypto XLN, sp. w/ pyrite inclusions, FXLN w/ consistant fn ppt porosity, Med XLN, oolitic w/ GD intraoolite porosity, LT GSY STN, SSFO, FNT ODR**

**LKC 3846' (-1265) E-LOG 3842' (-1261) Lm- Cream Tan, Med Coarse XLN, very well developed, oolitic, mix of large speherical pearl shaped oolites w/ GD intra oolite vuggy porosity and Med XLN w/ sctrd ppt porosity, FR intraoolite porosity, both w/ sctrd intraoolite recrystallization, DRK GSY STN, SLSFO, FR ODR**

Lm- White Off White, F-Med XLN, sl fsl w/ sctrd GD ppt porosity LT SCTRD GSY STN, NSFO, VRY FNT ODR at top of bench fair amount of barren porosity, transistions into vry tight, sub-crypto XLN, chalky in part

Lm- White Off White, Med-Crs XLN, fsl w/ sctrd fusulinids, mostly developed w/ dense XLN to sctrd ppt porosity, LT GSY STN, 2-3 CHPS W/ SL GSY FO UPON CRUSH, NO ODR

Lm- VF-FXLN, dense, sl chalky matrix in some, some well cemented, tight w/ minimal visible porosity, clean & barren

Lm- Tan, Med XLN, crumbly, dense XLN & consistant vry fn ppt porosity, very few pcs, LST GSY BRWN STN, NSFO, VRY FNT ODR, DULL FLOR.

Lm- Tan Off White, FXLN, dense, well cemented, sctrd development, mostly along edges w/ fn ppt porosity, fair amount of barren porosity, sctrd recrystallization amongst edge porosity, LT GSY STN, VLSGSYFO, FR GSY ODR

Sh- White soft chalk

Lm- Cream Tan Semi-Translucent, F-Med XLN, oolitic, mostly well to vry well developed, few w/ sctrd pearh shaped oolites, most w/ GD ppt porosity, some w/ sctrd sub-vugular, LT BRWN GSY STN 1-2 CHPS SAT, SL SGYFO, GD GSY SHEEN, FR SULPHURIC ODR, few chps w/ stn along solution veins w/ recrystallization w/in, possible fracturing

Lm- Cream White, FXLN, dense, loosely cemented & crumbly, chps of Med XLN, loosely cemented dolomite w/ consistant ppt porosity, visible rhombs, much soft white chalk

Lm- VF-FXLN, mix of dense brittle sl cherty Ls, sub-crypto XLN, vry minimal vis. porosity, dense calcareous algal Ls and much soft white chalk

Sh- Black Gray Maroon, fissile, smooth, carbonaceous, gritty & earthy

Lm- A/A, more algal Ls, soft, chips of gray sl cherty Ls

**LKC 'H' 3978' (-1397) Lm- Gray Brown, mix of mud supported oolitic, FXLN oolitic biomicrite, sl chalky, 1-2 chps w/ LT SCTRD STN, NSFO, FNT ODR**

Lm- Cream Off White, F-Crs XLN, vry well developed, sl fsl, sctrd XLN to GD vuggy porosity, LT SCTRD STN, SL GSY SHEEN, SL SFO, FR ODR

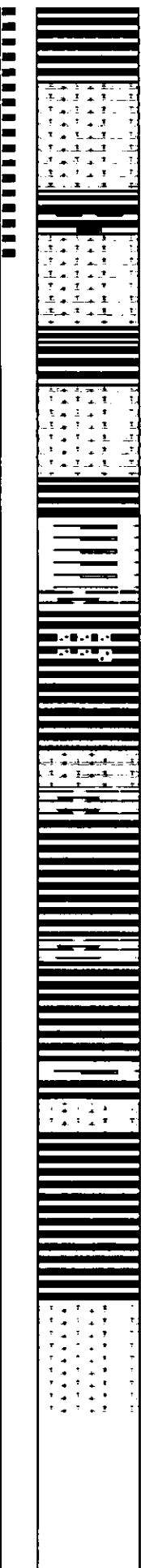
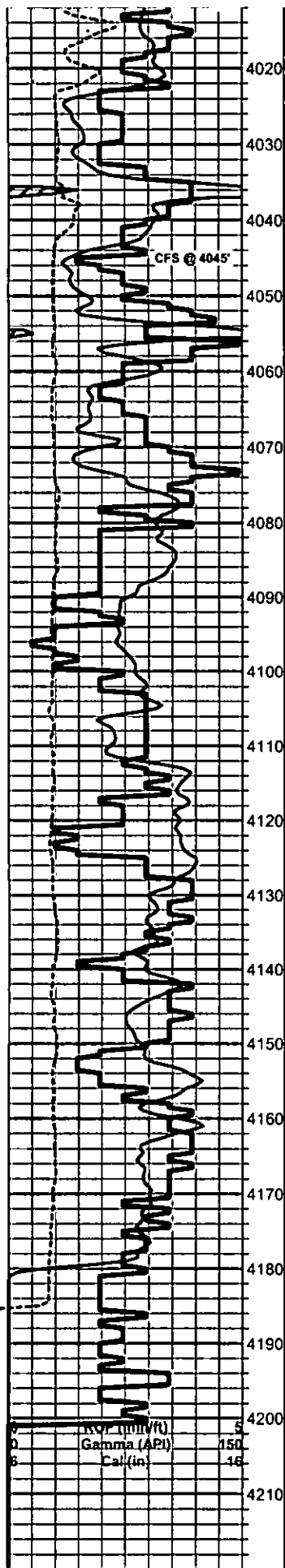
Lm- Tan, Fn Grn - Crs XLN, mix of very well developed, oolitic w/ vuggy intraoolite porosity, dense sl chalky fn grn, crumbly & loosely cemented, and soft calcareous chalk, SAT LT BRWN STN CARRIES THROUGH ENTIRE ZONE, SFO IN OOLITIC DEVELOPMENT, FEW CHIPS W/ BLEEDING SHOW, FR GSY ODR

SHORT TRIP  
SLOPE 1 dgr.  
STRAP 3867.67  
BOARD 3867.67  
STRAP +0.26

DST #1  
LKC A & B  
3865' - 3864'

DST #2  
LKC E-G  
3865' - 3930'

DST #3



Sh- Abundant red wash

Lm- Tan Buff, Med-Coarse XLN, fsl & oolitic, some massive w/ sctrd development & Intraoolite por., ppt - sctrd vuggy porosity, sl recrystallization w/in, DRK STN, SL SFO, FNT ODR

Lm- Lt Gray White, FXLN, mix of loosely cemented FXLN w/ ppt porosity, poorly developed, SCTRD TO SAT BLK STN, 1-2 PCS W/ VSL SFO UPON CRUSH, NO ODR, and abundant soft white calcareous lime mud matrix and soft white chalk, some Lt Gray dense algal Ls

Lm- Cream Off White, VFXLN, dense, mix of sl. chalky & sub-crypto XLN, all tight w/ minimal vis. porosity

**BKC 4077' (-1496) E-LOG 4074' (-1493)** Sh- Red Brown Gray White, sl sandy red shale, sl waxy, blocky & dense, abundant sticky argillaceous white clumps

Sh- Red Gray Lm Green, abundant red wash, sandy red lime, sl waxy lm green

Lm- Cream Off White, FXLN & Fn grn, mix of sl siliceous, semi-brittle, tight FXLN & fn grn algal Ls, 2-3 chips of densely packed small oolites in semi-translucent sparry cement

Sh- Red Lm Green White, abundant red wash, waxy & striated lm green, soft gummy white chalk

Lm- Cream Tan Off White, mix of sl conglomerate, mottled, sl fsl w/ few small fusulinids, few w/ good XLN porosity, mostly tight w/ limited porosity, sl chalky, 1-2 chips w/ BLK GILSONITE TARRY STN, NSFO, SL GSY ODR UPON CRUSH

Sh- Red Gray Brown Lm Green, abundant red wash, waxy & massive brown & lm grn

Lm- Lt Gray Off White, FXLN, tight, dense, sl chalky in part, no vis. porosity

Sh- Red White Gray Lm Green, abundant red wash & sticky agrillaceous white clumps

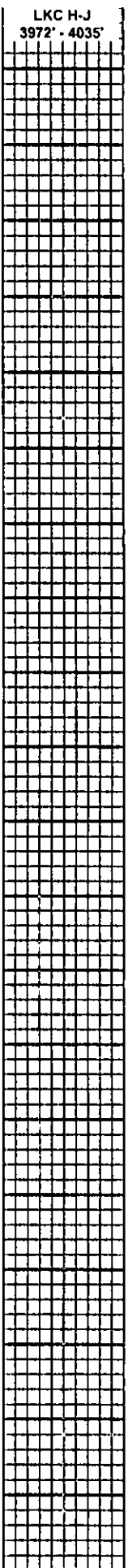
Lm- Off White, FXLN, sl fsl w/ few small fusulinids, crubley & loosely cemented, clean & barren

Sh- Red Gray, very soft, sl waxy, gritty & earthy

Sh- White Red Gray, soft lime mud, gritty & sl sandy, soft red & gray shale

Lm- Cream Buff Lt Gray Off White, mix of FXLN well cemented & gritty, few chips of cherty Ls & sl dolomitic chert, all tight & clean, minimal vis. porosity

**RTD 4200' (-1619) LTD 4202' (-1621) @ 04:05 8/17/2012**







CHARGE TO  
 ADDRESS  
 CITY, STATE, ZIP CODE

**AMERICAN WARRIOR**

TICKET  
 No 23261

PAGE 1 OF 2

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

WELL/PROJECT NO  
**BITTEL #4**

LEASE  
**SHERIDAN**

COUNTY/PARISH  
**KS. ST. PETER, KS.**

STATE  
**KS.**

CITY  
**ST. PETER, KS.**

DATE  
**17 AUG 12**

OWNER

TICKET TYPE  
 SERVICE  
 SALES

CONTRACTOR  
**WWD DRILLING RIG #6**

RIG NAME/NO.

SHIPPED VIA

DELIVERED TO

ORDER NO.

WELL TYPE  
**OIL**

WELL CATEGORY  
**DEVELOPMENT**

JOB PURPOSE  
**5/2 LONGSTRACK**

WELL PERMIT NO.

WELL LOCATION  
**LOW, 1N 3/4 E TUTO**

REFERRAL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #110	80		ML		600	48000
578					Pump CHARGE	1	4168	FT		1500	150000
402					CENTRAUZERS	9		EA		700	63000
403					CEMENT BASKETS	2		EA		250	50000
404					PORT COLLAR	1	2182	FT		2400	240000
406					LATCH DOWN PLUG & BAFFLE	1		EA		250	25000
407					INSERT FLOAT SHOEW/AUTO FILL	1		EA		350	35000
281					MUD FLUSH	500		GA		125	62500
221					LIQUID KCL	2		PKL		25	50000
419					ROTATING HEAD RENTAL	1		JOB		200	20000

**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  
 DATE SIGNED **17 AUG 12** TIME SIGNED **2200**  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	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	698500
WE UNDERSTOOD AND MET YOUR NEEDS?				2	495400
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	11,93900
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Sheridan TAX 8.3%	73675
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	12,675.97
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

SWIFT OPERATOR

*[Signature]*

APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 23261

CUSTOMER AMERICAN WARRIOR WEL BITTEL #4  
DATE 17 Aug 12 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		PRICE	AMOUNT
		LOG	ACCT	DF			QTY.	UM		
276						FLOCELE	44	lbs.	2.00	88.00
283						SALT	900	lbs.	20	180.00
284						CALSEAL	8	bx	35.00	280.00
292						HALAD 322	124	lbs	7.25	900.00
325						STANDARD CEMENT EA-2	175	bx	13.50	2362.50
581						SERVICE CHARGE		CUBIC FEET	2.00	350.00
583						OVERHEAD CHARGE	18318	TOTAL WEIGHT	1.00	732.73
							80	LOADED MILES		
								TON MILES		

CONTINUATION TOTAL 4954.23

JOB LOG

SWIFT Services, Inc.

DATE \_\_\_\_\_ PAGE NO. \_\_\_\_\_

CUSTOMER: AMERICAN WARRIOR WELL NO. \_\_\_\_\_ LEASE: BIFEL #4 JOB TYPE: 52 LONGSTRING TICKET NO. 232601

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							ON LOCATION
	1810							START PIPE USED 5 1/2" - 14" RTD @ 4200 SET @ 4168 SHOETT. 23' CENTRALIZERS 1, 2, 4, 6, 8, 10, 11, 44, 47 BASKETS 10, 45 PORT QUARTOP OF #46 @ 2182
	2000				✓			DROP BALL CIRCULATE.
	2032	6	12		✓		300	Pump 500 gal MUD FLUSH
		6	20		✓		300	Pump 80 BBL KCL FLUSH
	2038		7					PLUG RA (30sx)
	2040	4	35		✓			MIX #145 SX EA 2
	2054							WASH OUT PUMP & LINES
	2058	6			✓			START PLUG DISPLACEMENT
	2115	0	101		✓		1500	PLUG DOWN PSI UP LATCH PLUG IN
	2118				✓			RELEASE PSI - DRY
	2120							WASH TRUCK
	2200							JOB COMPLETE.
								THANKS #110
								JASON JEFF DOUG



CHARGE TO  
*American Wellbore, Inc*

ADDRESS

CITY STATE, ZIP CODE

TICKET  
No 21868

PAGE 1 OF 1

1. SERVICE LOCATIONS <i>Hanna, KS</i>	WELL/PROJECT NO <i>E#4</i>	LEASE <i>Bittle</i>	COUNTY/PARISH <i>Sheridan</i>	STATE <i>Ks</i>	CITY	DATE <i>8-28-12</i>	OWNER
2. <i>Ness City, KS</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Express</i>	RIG NAME/NO. <i>(Verba)</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>W/ St. Peter, KS</i>	ORDER NO.	
3.	WELL TYPE <i>Dil</i>	WELL CATEGORY <i>in Well</i>	JOB PURPOSE <i>Cement Port Collar</i>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	60	mi			6.00	360.00
576 D		1			Pump Charge - cement Port Collar	1	pa	2196	ft	1250.00	1250.00
290		1			D-Air	2	gal			35.00	70.00
104		1			Port Collector Rental	1	ea	5 1/2	in	250.00	250.00
330		2			Sand Cement	200	sb			16.50	3300.00
276		2			Floccle	50	lbs			2.00	100.00
581		2			Service Charge - cement	225	sb	22390	lbs	2.00	750.00
583		2			<del>Service Charge - cement</del>	60	mi	676.7	mi	1.00	676.70

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

X *Joe S. by Don L.*

DATE SIGNED *8-28-12* TIME SIGNED *2:30*  AM  PM

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?					6451.70
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	6766.46

*Sheridan TAX E. 3/2*

SWIFT OPERATOR *Don L...* APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

Thank You!



