



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220709  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW     Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD                  Permit #: \_\_\_\_\_
- ENHR                Permit #: \_\_\_\_\_
- GSW                 Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

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

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

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

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

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

Total Vertical 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

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

1220709

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Handy 10
Doc ID	1220709

Tops

Name	Top	Datum
Heebner	4411'	-1667
Toronto	4439'	-1695
Lansing	4560'	-1816
Marmaton	5255'	-2511
Morrow	5794'	-3050
Morrow sand	5849'	-3105
Chester	5952'	-3208
St.Gen	6256'	-3512
St.Louis	6351'	-3607







**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 04830 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <i>08-04-14</i>	DISTRICT <i>1717 Liberal</i>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:	
CUSTOMER <i>Palmer D. / American Warrior</i>		LEASE <i>Hardy</i>		10-29 WELL NO.				
ADDRESS		COUNTY <i>Seward</i>		STATE <i>KS</i>				
CITY		STATE		SERVICE CREW <i>Roger - Carlos - Norma - Santiago</i>				
AUTHORIZED BY <i>Serry Bonnett</i>		JOB TYPE: <i>242 5 1/2" LS</i>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
<i>38750-19842</i>	<i>6</i>					<i>08-04-14</i>	<i>AM</i>	<i>0500</i>
<i>21755</i>	<i>6</i>					ARRIVED AT JOB	<i>11</i>	<i>AM</i>
<i>30963-19566</i>	<i>6</i>					START OPERATION	<i>11</i>	<i>AM</i>
<i>19827-19883</i>	<i>6</i>					FINISH OPERATION	<i>11</i>	<i>AM</i>
						RELEASED	<i>11</i>	<i>AM</i>
						MILES FROM STATION TO WELL	<i>15</i>	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Emilio Rojas*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AA2 Cement	SK	450		8190 00
CL103	60/40 P22	SK	50		600 00
CC113	Gypsum	lb.	2115		1586 25
CC111	SAT	lb.	2490		1245 00
CC103	C-15	lb.	254		3175 00
CC105	C-41-P	lb.	106		424 00
CC201	Eilsowite	lb.	2250		1507 50
CF1251	Auto Fill Plots shoe 5 1/2"	EA	1		360 00
CF607	Catch Down Plug and Baffle 5 1/2"	EA	1		400 00
CF4452	Economizer Flanged, Welded Connections - Turbopis	EA	12		900 00
CF3000	Industrial Rubber Thread Lock Kit	EA	1		34 00
CC155	Superflush II	gal	500		765 00
E101	Heavy Equipment Mixture	mi	45		315 00
CE240	Blending & Mixing Service Charge	SK	500		700 00
E113	Proppant and Bulk Delivery Charges	TWMI	350		768 90
CE207	Depth Change 6001-7000'	4 hrs	1		3240 00
CE504	Plug Container Utilization Charge	job	1		250 00
E100	Unit Mixture Change - Pick up	mi	15		63 75
S003	Service Supervision, first 8 hrs on loc	EA	1		175 00
SUB TOTAL					18166 86
TOTAL					17916 86

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE *Roger Brown*  
FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Emilio Rojas*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)





# Cement Report

Customer <i>Paloma Oil / American Warrior</i>		Lease No. <i>10-29</i>		Date <i>08-04-14</i>				
Lease <i>Handy</i>		Well # <i>1029</i>		Service Receipt <i>1717-04830 A</i>				
Casing <i>5 1/2"</i>		Depth <i>6553'</i>		County <i>Sevier</i> State <i>KS</i>				
Job Type <i>5 1/2" LS</i>		Formation		Legal Description <i>29-34-31</i>				
Pipe Data			Perforating Data			Cement Data		
Casing size <i>5 1/2"</i>			Tubing Size			Lead		
Depth <i>6553'</i>			Depth			From		
Volume			Volume			To		
Max Press			Max Press			From		
Well Connection			Annulus Vol.			To		
Plug Depth <i>6530</i>			Packer Depth			From		
						To		
						Tail in <i>450 sks 14.8 spgs</i>		
						<i>AA2-Cement 5# gilsonite</i>		
						<i>1.5% W-60</i>		
						<i>1.0% salt</i>		
						<i>1.0% C-15</i>		
						<i>1.4% Deformer</i>		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log			
<i>0430</i>					<i>Called Dnt</i>			
<i>0600</i>					<i>On Location</i>			
<i>0620</i>					<i>Safety Meeting</i>			
<i>0640</i>					<i>Set up</i>			
<i>1110</i>					<i>On Bottom Line</i>			
<i>1130</i>					<i>Mix Rat Hole &amp; Mouse Hole Cement</i>			
<i>1140</i>	<i>100</i>		<i>12</i>	<i>4</i>	<i>Pump 12 Bbls Surfactant</i>			
<i>1144</i>	<i>100</i>		<i>121</i>	<i>5</i>	<i>Mix &amp; pump Cement 14.8 spgs</i>			
					<i>Finished Mixing Cement</i>			
					<i>Washup</i>			
					<i>Drop Plug</i>			
<i>1230</i>			<i>155</i>	<i>6-2</i>	<i>Displace</i>			
<del><i>1230</i></del>	<i>1200</i>				<i>Land Plug 1200psi</i>			
<i>1300</i>					<i>Release</i>			
					<i>Hoops Held</i>			
					<i>Breakup</i>			
					<i>Job Completed</i>			
					<i>THANKS</i>			
Service Units	<i>21755</i>	<i>38150-19842</i>	<i>30463-19866</i>	<i>19827-19883</i>				
Driver Names	<i>Rogen</i>	<i>Carlos</i>	<i>Wanda</i>	<i>Shandy</i>				

*Emilio Rojas*  
Customer Representative

*Jeray Bonnett*  
Station Manager

*Rogen Brown*  
Cementer





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Wyatt Urban

**Handy #10-29**

**29-34s-31w Seward,KS**

Start Date: 2014.07.27 @ 15:05:00

End Date: 2014.07.27 @ 22:08:15

Job Ticket #: 56666                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.05 @ 13:06:35



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56666

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.07.27 @ 15:05:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:11:15

Time Test Ended: 22:08:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 71

**Interval: 4394.00 ft (KB) To 4467.00 ft (KB) (TVD)**

Reference Elevations: 2744.00 ft (KB)

Total Depth: 4467.00 ft (KB) (TVD)

2731.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

**Serial #: 8355 Outside**

Press@RunDepth: 771.36 psig @ 4395.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.27

End Date:

2014.07.27

Last Calib.:

2014.07.27

Start Time: 15:05:05

End Time:

22:08:14

Time On Btm:

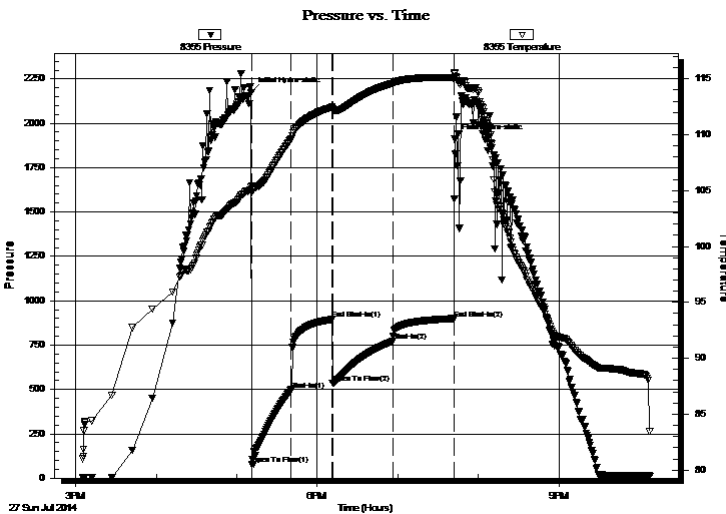
2014.07.27 @ 17:11:00

Time Off Btm:

2014.07.27 @ 19:42:30

**TEST COMMENT:** 30: B.O.B in 4 mins.  
30: Weak Surface Blow Died in 5 min.  
45: B.O.B in 4 mins.  
45: No Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.84	105.38	Initial Hydro-static
1	78.17	104.77	Open To Flow (1)
30	497.84	109.62	Shut-In(1)
60	894.25	112.45	End Shut-In(1)
61	535.07	112.34	Open To Flow (2)
106	771.36	114.60	Shut-In(2)
151	899.42	115.08	End Shut-In(2)
152	1911.27	115.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1646.00	mcw 10% m 90% w	21.49
189.00	mcw 40% m 60% w	2.65
0.00	60' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56666

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.07.27 @ 15:05:00

## Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4394.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4368.00	
Shut In Tool	5.00			4373.00	
Hydraulic tool	5.00			4378.00	
Jars	5.00			4383.00	
Safety Joint	2.00			4385.00	
Packer	5.00			4390.00	27.00 Bottom Of Top Packer
Packer	4.00			4394.00	
Stubb	1.00			4395.00	
Recorder	0.00	8355	Outside	4395.00	
Recorder	0.00	8674	Inside	4395.00	
Perforations	2.00			4397.00	
Change Over Sub	1.00			4398.00	
Drill Pipe	63.00			4461.00	
Change Over Sub	1.00			4462.00	
Bullnose	5.00			4467.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56666

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.07.27 @ 15:05:00

## 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:

70000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.72 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1646.00	mcw 10%m 90%w	21.486
189.00	mcw 40%m 60%w	2.651
0.00	60' GIP	0.000

Total Length: 1835.00 ft      Total Volume: 24.137 bbl

Num Fluid Samples: 0

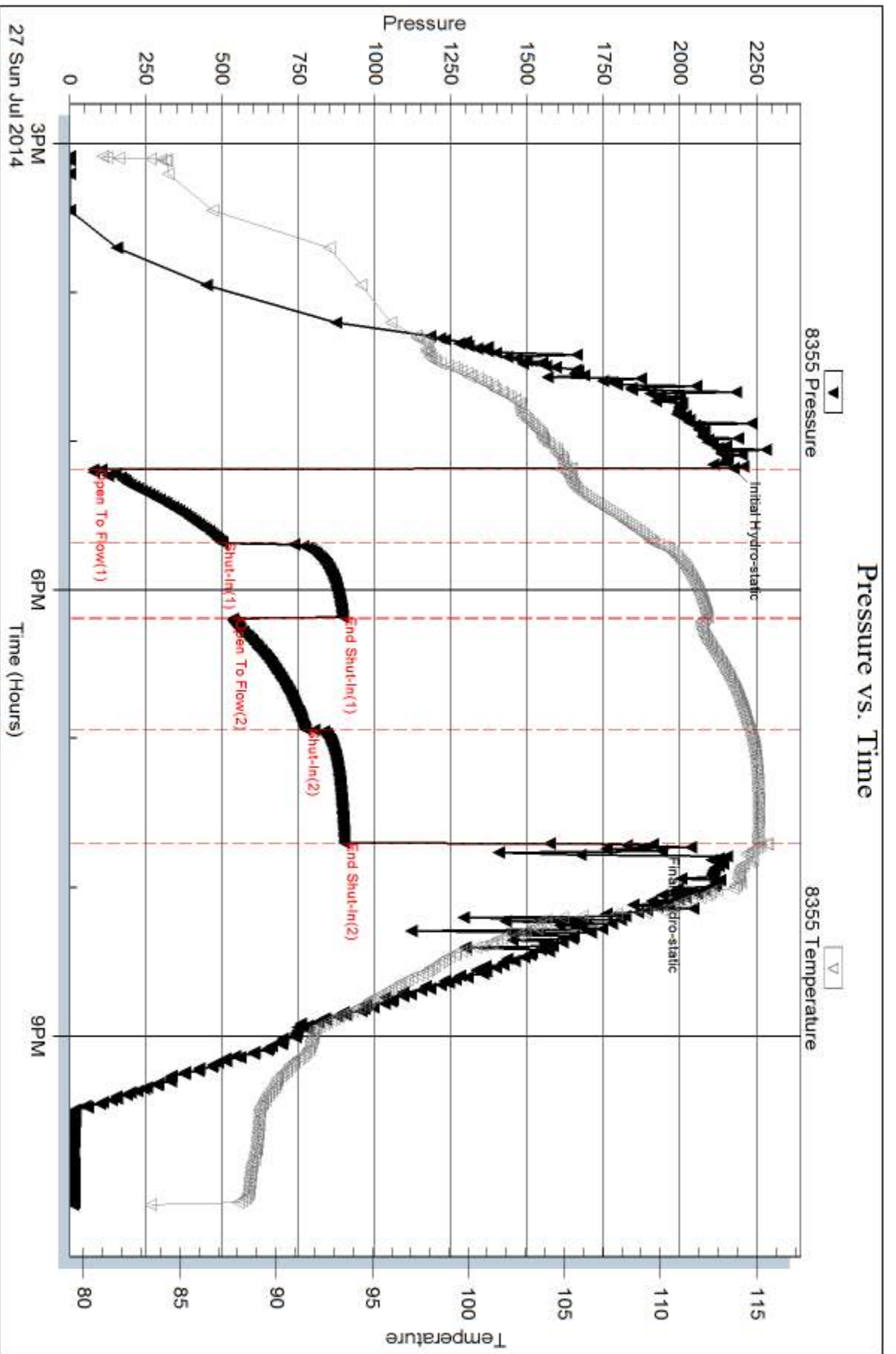
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



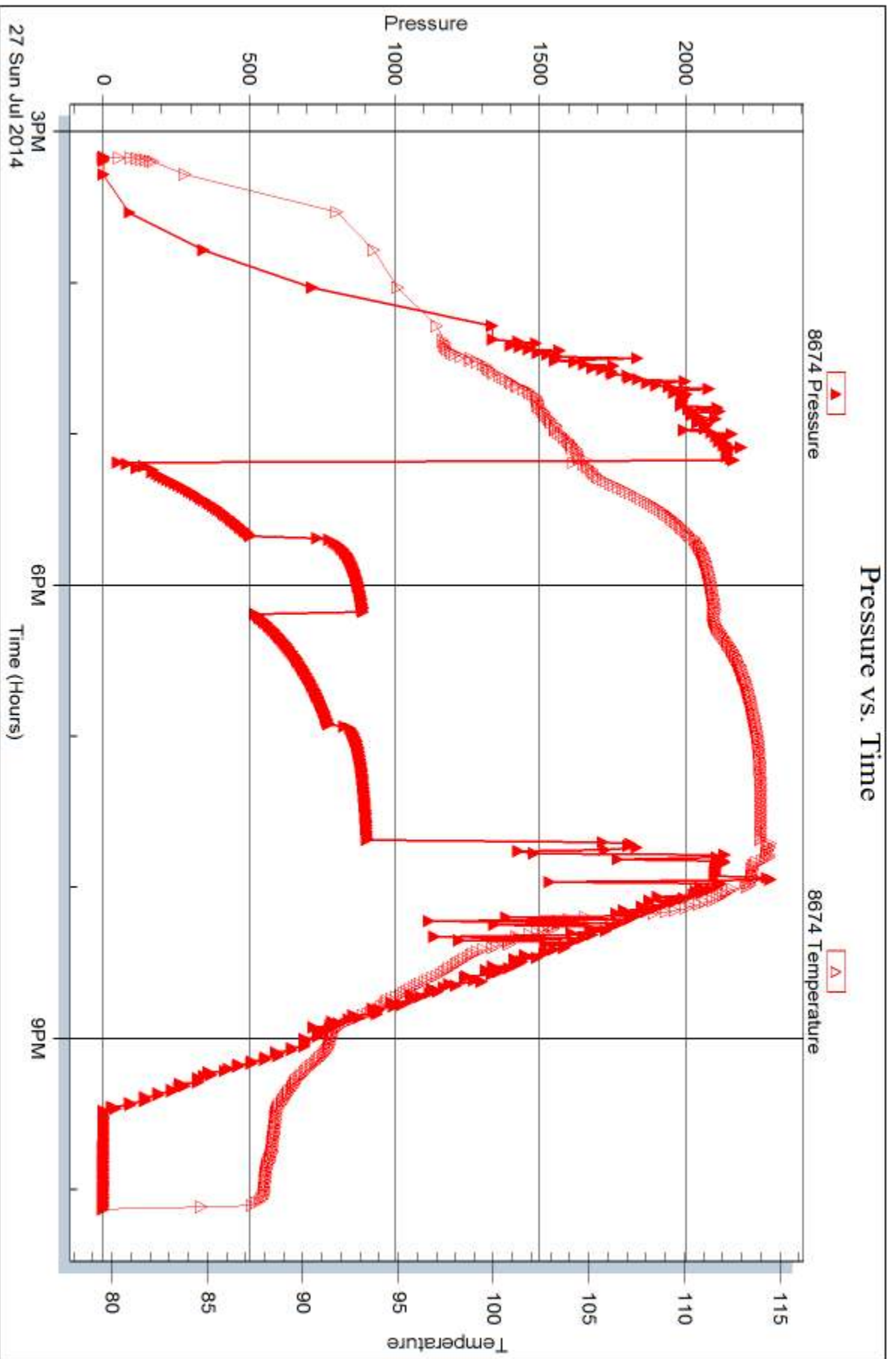
Serial #: 8674

Inside

American Warrior Inc.

Handy #10-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56666

Printed: 2014.08.05 @ 13:06:37



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Wyatt Urban

**Handy #10-29**

**29-34s-31w Seward,KS**

Start Date: 2014.07.30 @ 16:14:00

End Date: 2014.07.31 @ 01:09:45

Job Ticket #: 56553                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.05 @ 13:04:31





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Wyatt Urban

**29-34s-31w Seward,KS**

**Handy #10-29**

Job Ticket: 56553

**DST#: 2**

Test Start: 2014.07.30 @ 16:14:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:17:30  
 Time Test Ended: 01:09:45  
 Interval: **5274.00 ft (KB) To 5373.00 ft (KB) (TVD)**  
 Total Depth: 5373.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cornelio Landa III  
 Unit No: 67  
 Reference Elevations: 2744.00 ft (KB)  
 2731.00 ft (CF)  
 KB to GR/CF: 13.00 ft

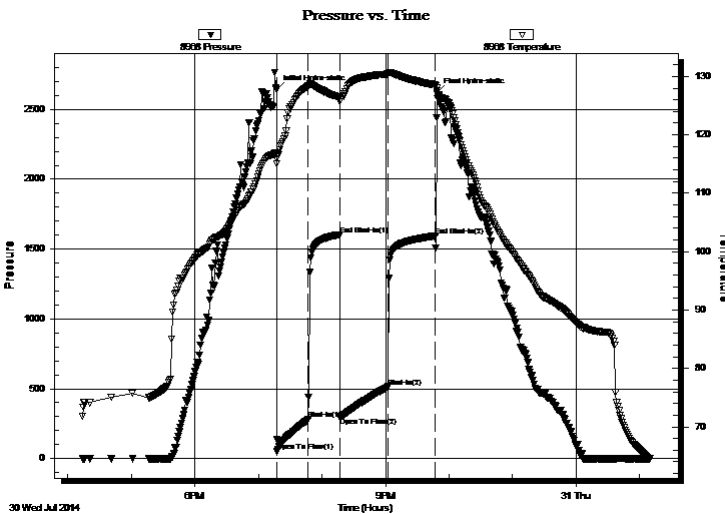
**Serial #: 8968**

**Outside**

Press@RunDepth: 513.53 psig @ 5277.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.30 End Date: 2014.07.31 Last Calib.: 2014.07.31  
 Start Time: 16:14:05 End Time: 01:09:45 Time On Btm: 2014.07.30 @ 19:17:00  
 Time Off Btm: 2014.07.30 @ 21:48:30

TEST COMMENT: IF: BOB in 8 min.  
 IS: Bled off in 2 min.-Surface blow back-Built to 1/8"  
 FF: BOB in 9 min  
 FS: Bled off in 2 min.- Weak surface blow back-Died in 25 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2641.30	116.92	Initial Hydro-static
1	52.87	115.91	Open To Flow (1)
30	279.29	128.28	Shut-In(1)
60	1599.66	126.41	End Shut-In(1)
60	292.44	125.70	Open To Flow (2)
106	513.53	130.41	Shut-In(2)
150	1593.58	128.51	End Shut-In(2)
152	2621.79	127.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
181.00	Mcw 5m 95w	0.89
567.00	Mcw 30m 70w	7.95
126.00	Gw cm 5g 5w 90m w /oil spots	1.77
0.00	GIP=126	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56553

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2014.07.30 @ 16:14:00

## Tool Information

Drill Pipe:	Length: 5088.00 ft	Diameter: 3.80 inches	Volume: 71.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 72.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5274.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.00 ft			
Tool Length:	126.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5248.00	
Shut In Tool	5.00			5253.00	
Hydraulic tool	5.00			5258.00	
Jars	5.00			5263.00	
Safety Joint	2.00			5265.00	
Packer	5.00			5270.00	27.00 Bottom Of Top Packer
Packer	4.00			5274.00	
Stubb	1.00			5275.00	
Perforations	1.00			5276.00	
Change Over Sub	1.00			5277.00	
Recorder	0.00	8969	Inside	5277.00	
Recorder	0.00	8968	Outside	5277.00	
Drill Pipe	63.00			5340.00	
Change Over Sub	1.00			5341.00	
Perforations	29.00			5370.00	
Bullnose	3.00			5373.00	99.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>126.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56553

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2014.07.30 @ 16:14:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
181.00	Mcw 5m 95w	0.890
567.00	Mcw 30m 70w	7.954
126.00	Gw cm 5g 5w 90m w/oil spots	1.767
0.00	GIP=126	0.000

Total Length: 874.00 ft      Total Volume: 10.611 bbl

Num Fluid Samples: 0

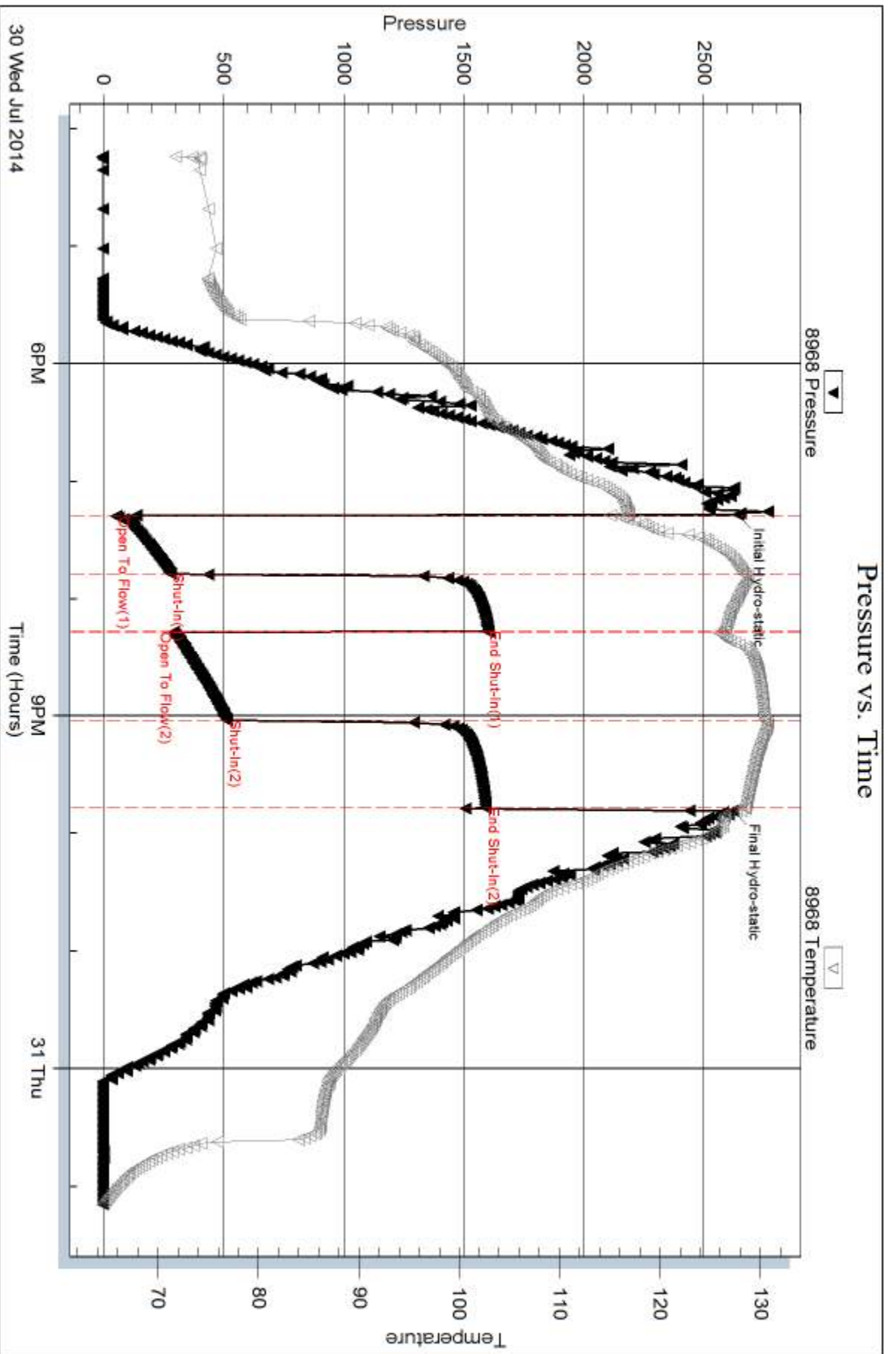
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .38 @ 64.5=18500



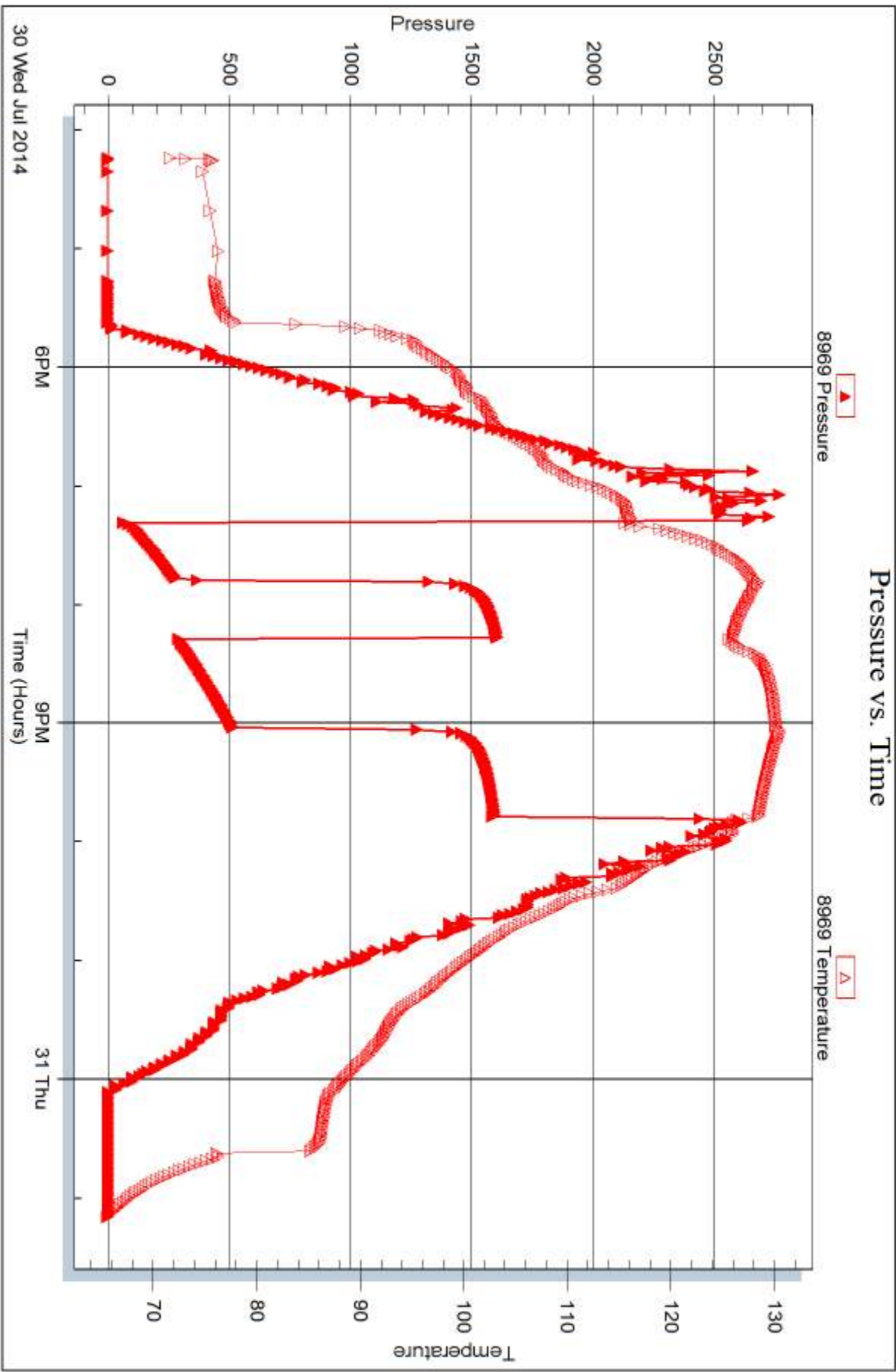
Serial #: 8969

Inside

American Warrior Inc.

Handy #10-29

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56553

Printed: 2014.08.05 @ 13:04:33



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Wyatt Urban

**Handy #10-29**

**29-34s-31w Seward,KS**

Start Date: 2014.08.01 @ 21:37:00

End Date: 2014.08.02 @ 06:02:00

Job Ticket #: 56554                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.05 @ 13:13:03



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc.  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Wyatt Urban

**29-34s-31w Seward,KS**

**Handy #10-29**

Job Ticket: 56554      **DST#: 3**  
 Test Start: 2014.08.01 @ 21:37:00

## GENERAL INFORMATION:

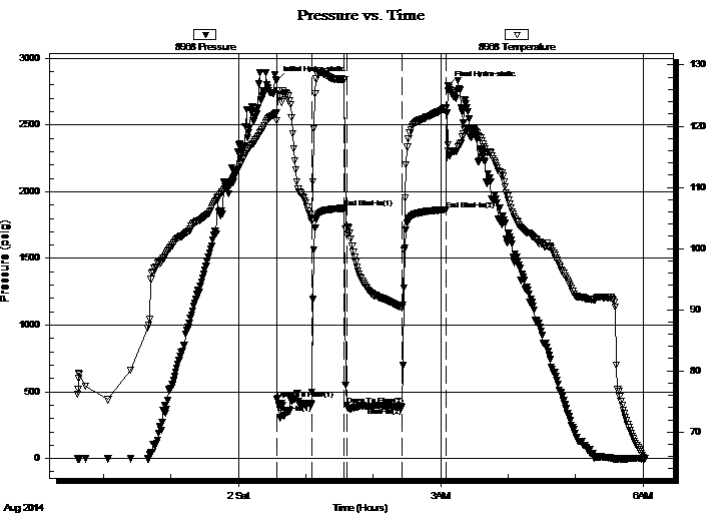
Formation: **Morrow Sands**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:34:15  
 Time Test Ended: 06:02:00  
 Interval: **5783.00 ft (KB) To 5875.00 ft (KB) (TVD)**  
 Total Depth: 5875.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cornelio Landa III  
 Unit No: 67  
 Reference Elevations: 2744.00 ft (KB)  
 2731.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 8968

**Outside**

Press@RunDepth: 387.45 psig @ 5786.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.08.01      End Date: 2014.08.02      Last Calib.: 2014.08.02  
 Start Time: 21:37:05      End Time: 06:01:59      Time On Btm: 2014.08.02 @ 00:34:00  
 Time Off Btm: 2014.08.02 @ 03:06:45

**TEST COMMENT:** IF: BOB in 25 seconds-G.T.S. in 4 min.-Gauged Gas 10 min. into Open  
 IS: Bled off 15 min.-BOB Immediately  
 FF: BOB Immediately- G.T.S.-Gauged Gas 5 min. into open  
 FS: Bled off 15 min.- BOB Immediately



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2832.85	122.20	Initial Hydro-static
1	446.20	120.94	Open To Flow (1)
31	409.50	104.51	Shut-In(1)
61	1876.65	127.66	End Shut-In(1)
63	397.84	102.22	Open To Flow (2)
112	387.45	90.26	Shut-In(2)
151	1865.43	122.97	End Shut-In(2)
153	2794.56	115.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gcm 40g 60m	0.59
94.00	Gcm 20g 80m	0.76
93.00	Gcm 15g 85m	1.30
0.00	GTS	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	70.00	1318.32
Last Gas Rate	1.00	55.00	1995.17
Max. Gas Rate	0.75	90.00	1630.71







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56554

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2014.08.01 @ 21:37:00

## Tool Information

Drill Pipe:	Length: 5592.00 ft	Diameter: 3.80 inches	Volume: 78.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 79.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	5783.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5757.00	
Shut In Tool	5.00			5762.00	
Hydraulic tool	5.00			5767.00	
Jars	5.00			5772.00	
Safety Joint	2.00			5774.00	
Packer	5.00			5779.00	27.00 Bottom Of Top Packer
Packer	4.00			5783.00	
Stubb	1.00			5784.00	
Perforations	1.00			5785.00	
Change Over Sub	1.00			5786.00	
Recorder	0.00	8969	Inside	5786.00	
Recorder	0.00	8968	Outside	5786.00	
Drill Pipe	63.00			5849.00	
Change Over Sub	1.00			5850.00	
Perforations	22.00			5872.00	
Bullnose	3.00			5875.00	92.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>119.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56554

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2014.08.01 @ 21:37:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 2650.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Gcm 40g 60m	0.590
94.00	Gcm 20g 80m	0.763
93.00	Gcm 15g 85m	1.305
0.00	GTS	0.000

Total Length: 307.00 ft      Total Volume: 2.658 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

American Warrior Inc.

**29-34s-31w Seward,KS**

PO Box 399  
Garden City, KS 67846

**Handy #10-29**

Job Ticket: 56554

**DST#: 3**

ATTN: Wyatt Urban

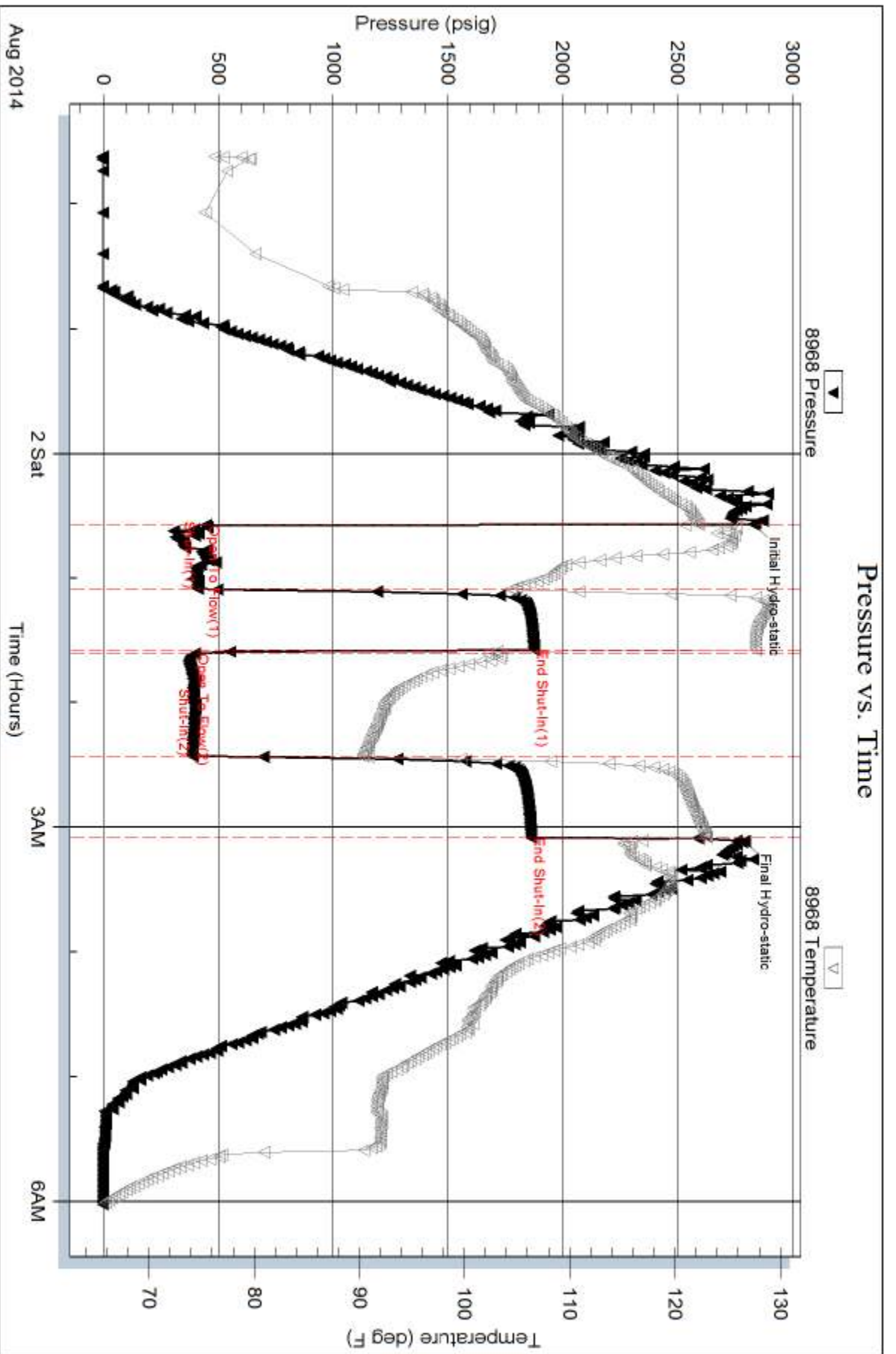
Test Start: 2014.08.01 @ 21:37:00

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.75	70.00	1318.32
1	15	0.75	80.00	1474.51
1	20	0.75	82.00	1505.75
1	25	0.75	88.00	1599.47
1	30	0.75	90.00	1630.71
2	5	1.00	53.00	1937.67
2	10	1.00	55.00	1995.17
2	15	1.00	55.00	1995.17
2	25	1.00	55.00	1995.17
2	35	1.00	55.00	1995.17
2	45	1.00	55.00	1995.17



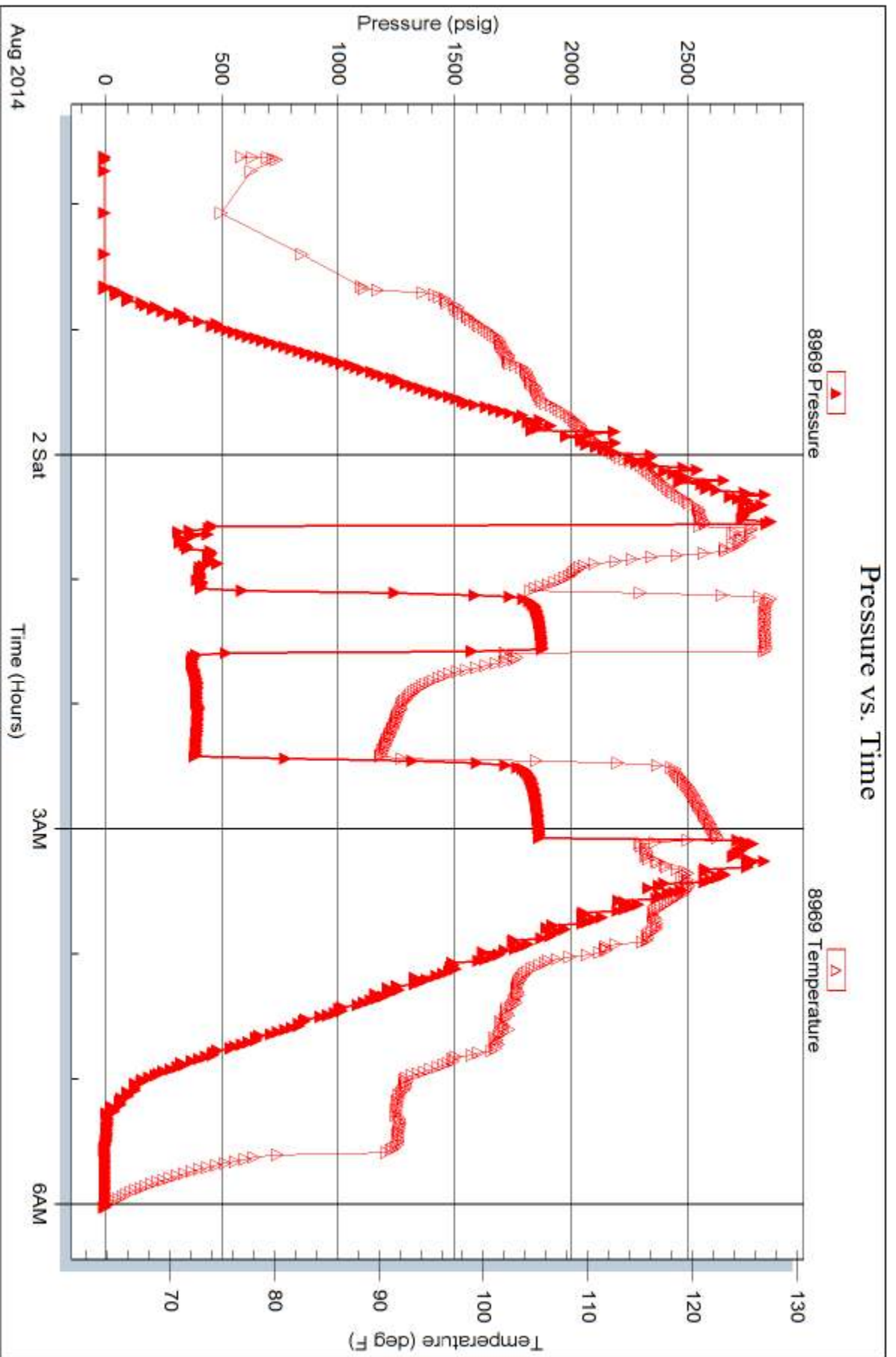
Serial #: 8969

Inside

American Warrior Inc.

Handy #10-29

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 56554

Printed: 2014.08.05 @ 13:13:05



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56666** 21310

Well Name & No. Handy # 10-29 Test No. 1 Date 7-27-14  
 Company American Warrior Elevation 2744 KB 2731 GL  
 Address 3118 Cumming Rd P.O. Box 399 Garden city Ks 67846  
 Co. Rep / Geo. Wyatt Urban Rig Duke #9  
 Location: Sec. 29 Twp. 34S Rge. 31W Co. Seward State Ks

Interval Tested 4394 4467 Zone Tested Toronto  
 Anchor Length 73 Drill Pipe Run 4203 Mud Wt. 9.3  
 Top Packer Depth 4389 Drill Collars Run 176 Vis 50  
 Bottom Packer Depth 4394 Wt. Pipe Run Ø WL 8.8  
 Total Depth 4467 Chlorides 3500 ppm System LCM 2#

Blow Description 30 B.O.B In 4 min  
30 weak surface Blow Diced in 5 min.  
45 B.O.B In 4 min  
45 No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1646</u>	<u>mcw 10% m 40% w</u>			<u>90</u>	<u>10</u>
<u>189</u>	<u>mcw 40% m 60% w</u>			<u>40</u>	<u>40</u>
	<u>60' GIP Bed</u>				
Rec Total	<u>1485</u> BHT <u>115</u>	Gravity <u>—</u>	API RW <u>1.0</u> @ <u>71</u> ° F	Chlorides <u>70000</u> ppm	

(A) Initial Hydrostatic 2177  Test 1250 T-On Location 14:15  
 (B) First Initial Flow 78  Jars 250 T-Started 15:05  
 (C) First Final Flow 498  Safety Joint 75 T-Open 17:09  
 (D) Initial Shut-In 899  Circ Sub N/C T-Pulled 19:39  
 (E) Second Initial Flow 535  Hourly Standby 92 RT T-Out 22:08  
 (F) Second Final Flow 771  Mileage 92 RT 142.60  
 (G) Final Shut-In 899  Sampler  
 (H) Final Hydrostatic 1911  Straddle  Ruined Shale Packer  
 Shale Packer 250  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1967.60  
 Accessibility MP/DST Disc't  
 Sub Total 1967.60

Approved By \_\_\_\_\_

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57701

4/10

Well Name & No. Handy 10-29 Test No. \_\_\_\_\_ Date 7-29-14  
 Company American Warrior Elevation 2744 KB 2731 GL \_\_\_\_\_  
 Address P.O. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Wyatt Urban Rig Duke #9  
 Location: Sec. 29 Twp. 34S Rge. 3/E Co. \_\_\_\_\_ State \_\_\_\_\_

Interval Tested \_\_\_\_\_ Zone Tested \_\_\_\_\_  
 Anchor Length \_\_\_\_\_ Drill Pipe Run \_\_\_\_\_ Mud Wt. \_\_\_\_\_  
 Top Packer Depth \_\_\_\_\_ Drill Collars Run \_\_\_\_\_ Vis \_\_\_\_\_  
 Bottom Packer Depth \_\_\_\_\_ Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System \_\_\_\_\_ LCM \_\_\_\_\_  
 Blow Description \_\_\_\_\_

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

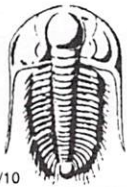
Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test \_\_\_\_\_ T-On Location 19:00  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started \_\_\_\_\_  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow \_\_\_\_\_  Mileage 248 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 691.67  
 Initial Shut-In \_\_\_\_\_  Day Standby 1d 20.75h Total 834.27  
 Final Flow \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 142.60

Approved By \_\_\_\_\_ Our Representative W. Urban

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56553**

4/10

Well Name & No. Handy #10-29 Test No. 2 Date 7-30-14  
 Company American Warrior Inc Elevation 2744 KB 2731 GL  
 Address 3118 Cummings Rd. - Gordon City, KS 67846  
 Co. Rep / Geo. Wyatt Urban Rig Duke #9  
 Location: Sec. 29 Twp. 34-S Rge. 31-W Co. Seward State KS

Interval Tested 5274-5373 Zone Tested Marmaton  
 Anchor Length 99' Drill Pipe Run 5088 Mud Wt. 9.3  
 Top Packer Depth 5270 Drill Collars Run 181' Vis 55  
 Bottom Packer Depth 5274 Wt. Pipe Run Ø WL 8.8  
 Total Depth 5373 Chlorides 3100 ppm System LCM ~~Ø~~ #2

Blow Description IF B.O.B. in 8 min.  
ISI. Bled off in 2 min. - Surface Blowback - Built to 1/8" Blowback  
FF: 1 in. Immediately - B.O.B. in 9 min.  
FST. Bled off in 2 min. - Weak surface Blowback - Dried in 25 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>181</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>567</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>126</u>	<u>GWCM w/ oil spots</u>	<u>5</u>	<u>5</u>	<u>90</u>	
	<u>Ø' GIP = 126</u>				

Rec Total 874 BHT 128 Gravity — API RW 38 @ 64.5 °F Chlorides 18,500 ppm

(A) Initial Hydrostatic 2641  Test 1350 T-On Location 15:30  
 (B) First Initial Flow 53  Jars 250 T-Started 16:14  
 (C) First Final Flow 279  Safety Joint 75 T-Open 19:17  
 (D) Initial Shut-In 1600  Circ Sub \_\_\_\_\_ T-Pulled 21:47  
 (E) Second Initial Flow 292  Hourly Standby \_\_\_\_\_ T-Out 1:09  
 (F) Second Final Flow 514  Mileage ~~Ø~~ RIT/100 Comments \_\_\_\_\_  
 (G) Final Shut-In 1594  Sampler 92rt 142.60 \_\_\_\_\_  
 (H) Final Hydrostatic 2622  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 0 1967.60  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1967.60

Approved By \_\_\_\_\_ Our Representative C. Adams CL777

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56554**

4/10

Well Name & No. Handy #10-29 Test No. 3 Date 8-1-14  
 Company American Warrior Inc. Elevation 2744 KB 2731 GL  
 Address 3118 Gimminger Rd - Garden City, KS 67846  
 Co. Rep / Geo. Wright & Libben Rig Duke #9  
 Location: Sec. 29 Twp. 34-S Rge. 31-W Co. Jeward State KS

Interval Tested 5783-5875 Zone Tested Morrow Sands  
 Anchor Length 92' Drill Pipe Run 5592' Mud Wt. 9.0  
 Top Packer Depth 5779 Drill Collars Run 181 Vis 53  
 Bottom Packer Depth 5783 Wt. Pipe Run 6 WL 8.8  
 Total Depth 5875 Chlorides 2650 ppm System LCM #2

Blow Description IF: B.o.b. in 25 seconds - G.T.S. in 4min. Gauged Gas 10 min into open  
ISI: Bled off in 5min. B.o.b. Immediately (Got A Gas Sample)  
FF: B.o.b. Immediately. G.T.S. - Gauged Gas 5min. into open - 5-10-15-25-35-45  
FBI: Bled off in 15min. B.o.b. Immediately

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Gcm w/oil spots</u>	<u>40</u>			<u>60</u>
<u>94</u>	<u>Gcm w/oil spots</u>	<u>20</u>			<u>80</u>
<u>93</u>	<u>Gcm w/oil spots</u>	<u>15</u>			<u>85</u>
	<u>GTS Had trace of oil in</u>				
	<u>Tool !!</u>				

Rec Total 307 BHT 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2833  Test 1350 T-On Location 21:30  
 (B) First Initial Flow 446  Jars 250 T-Started 21:37  
 (C) First Final Flow 410  Safety Joint 75 T-Open 00:35  
 (D) Initial Shut-In 1877  Circ Sub \_\_\_\_\_ T-Pulled 03:05  
 (E) Second Initial Flow 398  Hourly Standby 20 1/2 hrs T-Out 06:02  
 (F) Second Final Flow 387  Mileage 100 RT 142.60 Comments Took a Gas Sample  
 (G) Final Shut-In 1865  Sampler X2 mileage loaded tools @ 14:45  
 (H) Final Hydrostatic 2795  Straddle 142.60  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 675  
 Initial Shut-In 30  Day Standby 1 Day 20.25 Total 2885.20  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 2210.20

Approved By \_\_\_\_\_ Our Representative [Signature]

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# Mudgrove

**PETROLEUM CORPORATION**  
Clayton, Kansas

## NOTES

Company: American Warrior, Inc.

Lease: Handy #10

Field: Blue Bell

Location: NW-SW-SE-SW

Sec: 29 Twsp: 34S Rge: 31W

County: Seward State: Kansas

KB: 2744' GL: 2731'

API #: 15-175-22221-00-00

Contractor: Duke Drilling Inc. (Rig #9)

Spud: 07/23/2014 Comp: 08/03/2014

RTD: 6500' LTD: 6504'

Mud Up: 4300' Type Mud: Chemical

Samples Saved From: 4350' to RTD

Drilling Time Kept From: 4350' to RTD

Samples Examined From: 4350' to RTD

Geological Supervision from: 4350' to RTD

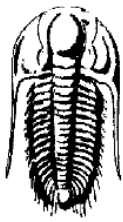
Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 1705'

Electronic Surveys: Logged by Pioneer Energy Services: DIL/MEL/ DUCP

# American Warrior Well Comparison Sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
American Warrior-Handy 10 NW-SW-SE-SW 29-34S-31W					American Warrior- Handy 9-29 NE-SW-SW-SW 29-34S-31W				American Warrior-Handy 7-29 SE-NW-NW-SW 29-34S-31W			
2744 KB					2733 KB				2730 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	4416	-1672	4411	-1667	4416	-1683	11	16	4391	-1661	-11	-6
Toronto	4427	-1683	4439	-1695	4444	-1711	28	16	4419	-1689	6	-6
Jansing	4560	-1816	4560	-1816	4569	-1836	20	20	4566	-1836	20	20
Marmaton	5262	-2518	5255	-2511	5258	-2525	7	14	5244	-2514	-4	3
Morrow	5806	-3062	5794	-3050	5797	-3064	2	14	5789	-3059	-3	9
Morrow Sd.	5845	-3101	5849	-3105	5852	-3119	18	14	5826	-3096	-5	-9
Chester	5950	-3206	5952	-3208	5955	-3222	16	14	5924	-3194	-12	-14
St. Gen	6256	-3512	6256	-3512	6264	-3531	19	19	6229	-3499	-13	-13
St. Louis	6351	-3607	6351	-3607	6380	-3647	40	40	6325	-3595	-12	-12
RTD	6500	-3756	6500	-3756	6500	-3767	11	11	6500	-3770	14	14
LTD	6500	-3756	6500	-3756	6502	-3769	13	13	6500	-3770	14	14



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior  
3118 Cumming Rd  
P.O. Box 399  
Garden City, Ks 67846  
ATTN: Wyatt Urban

**29-34s-31w**  
**Handy 10-29**  
Job Ticket: 56666 **DST#: 1**  
Test Start: 2014.07.27 @ 15:05:00

### GENERAL INFORMATION:

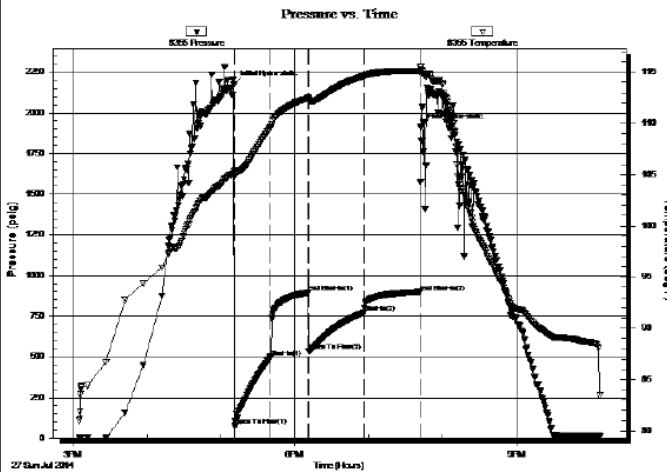
Formation: **Toronto**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 17:11:15  
Time Test Ended: 22:08:15  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Justin Harris  
Unit No: 71  
Interval: **4394.00 ft (KB) To 4467.00 ft (KB) (TVD)**  
Reference Elevations: 2744.00 ft (KB)  
Total Depth: 4467.00 ft (KB) (TVD) 2731.00 ft (CF)  
Hole Diameter: 7.88 inches-Hole Condition: Poor KB to GR/CF: 13.00 ft

### Serial #: 8355

### Outside

Press@RunDepth: 771.36 psig @ 4395.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.07.27 End Date: 2014.07.27 Last Calib.: 2014.07.27  
Start Time: 15:05:05 End Time: 22:08:14 Time On Btm: 2014.07.27 @ 17:11:00  
Time Off Btm: 2014.07.27 @ 19:42:30

TEST COMMENT: 30: B.O.B in 4 mins.  
30: Weak Surface Blow Died in 5 min.  
45: B.O.B in 4 mins.  
45: No Return.



### PRESSURE SUMMARY

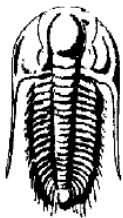
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.84	105.38	Initial Hydro-static
1	78.17	104.77	Open To Flow (1)
30	497.84	109.62	Shut-In(1)
60	894.25	112.45	End Shut-In(1)
61	535.07	112.34	Open To Flow (2)
106	771.36	114.60	Shut-In(2)
151	899.42	115.08	End Shut-In(2)
152	1911.27	115.57	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1646.00	mcw 10%m 90%w	21.49
189.00	mcw 40%m 60%w	2.65
	60' GP	

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67846  
ATTN: Wyatt Urban

**29-34s-31w Seward,KS**  
**Handy #10-29**  
Job Ticket: 56553 **DST#: 2**  
Test Start: 2014.07.30 @ 16:14:00

### GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 19:17:30  
 Time Test Ended: 01:09:45

Tester: Cornelio Landa III  
 Unit No: 67

**Interval:** 5274.00 ft (KB) To 5373.00 ft (KB) (TVD)  
 Total Depth: 5373.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Good

Reference Elevations: 2744.00 ft (KB)  
 2731.00 ft (CF)  
 KB to GR/CF: 13.00 ft

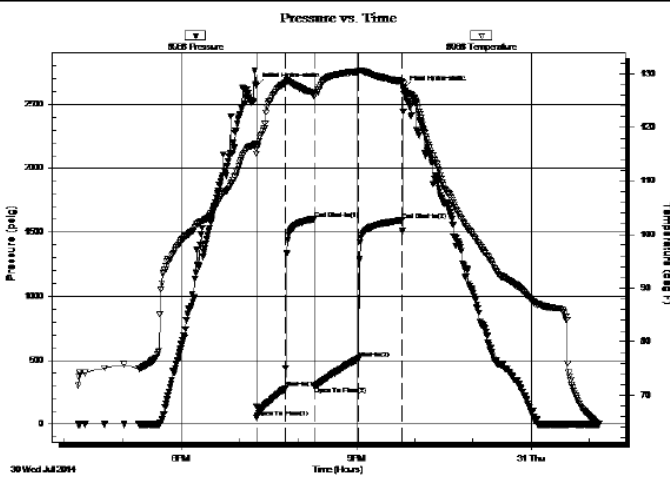
**Serial #: 8968**

**Outside**

Press@RunDepth: 513.53 psig @ 5277.00 ft (KB)  
 Start Date: 2014.07.30 End Date: 2014.07.31  
 Start Time: 16:14:05 End Time: 01:09:45

Capacity: 8000.00 psig  
 Last Calib.: 2014.07.31  
 Time On Btm: 2014.07.30 @ 19:17:00  
 Time Off Btm: 2014.07.30 @ 21:48:30

**TEST COMMENT:** IF: B.o.b. in 8 min.  
 1st Bled off in 2 min.-Surface blow back-Built to 1/8 of Blow back  
 FF: 1 in. Immediately-B.o.b. in 9 min.  
 FSt Bled off in 2 min.- Weak surface blow back-Died in 25 min.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2641.30	116.92	Initial Hydro-static
1	52.87	115.91	Open To Flow (1)
30	279.29	128.28	Shut-In(1)
60	1599.66	126.41	End Shut-In(1)
60	292.44	125.70	Open To Flow (2)
106	513.53	130.41	Shut-In(2)
150	1593.58	128.51	End Shut-In(2)
152	2621.79	127.59	Final Hydro-static

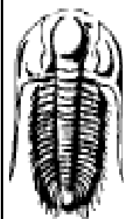
**Recovery**

Length (ft)	Description	Volume (bbl)
181.00	Mcw 5m 95w	0.89
567.00	Mcw 30m 70w	7.95
126.00	Gw cm 5g 5w 90m w/oil spots	1.77
0.00	RW .38 @ 64.5=18500	0.00
0.00	GP=126	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

American Warrior Inc.  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Wyatt Urban

**29-34s-31w Seward,KS**

**Handy #10-29**

Job Ticket: 56554 **DST#: 3**  
 Test Start: 2014.08.01 @ 21:37:00

**GENERAL INFORMATION:**

Formation: **Morrow Sands**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:34:15  
 Time Test Ended: 06:02:00

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cornelio Landa III  
 Unit No: 67

**Interval:** 5783.00 ft (KB) To 5875.00 ft (KB) (TVD)  
 Total Depth: 5875.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Good

Reference Elevations: 2744.00 ft (KB)  
 2731.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 8968**

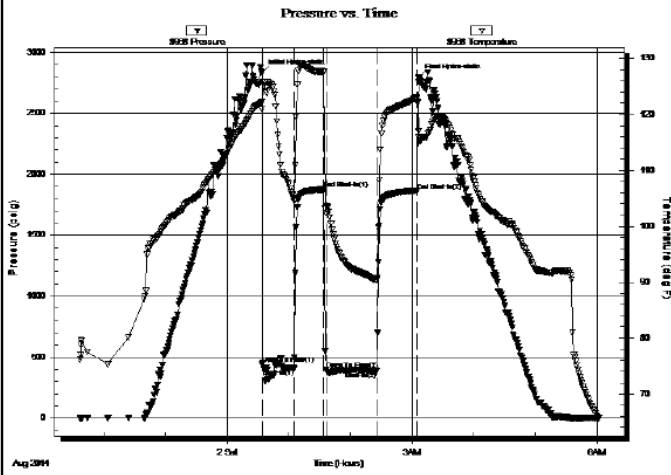
**Outside**

Press@RunDepth: 387.45 psig @ 5786.00 ft (KB)  
 Start Date: 2014.08.01 End Date: 2014.08.02  
 Start Time: 21:37:05 End Time: 06:01:59

Capacity: 8000.00 psig  
 Last Calib.: 2014.08.02  
 Time On Btm: 2014.08.02 @ 00:34:00  
 Time Off Btm: 2014.08.02 @ 03:06:45

**TEST COMMENT:** IF: B.o.b. in 25 seconds-G.T.S. in 4 min.-Gauged Gas 10 min. into Open

IS: Bled off 15 min.-B.o.b. Immediately  
 FF: B.o.b. Immediately-G.T.S.-Gauged Gas 5 min. into open  
 FS: Bled off 15 min.- B.o.b. Immediately



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2832.85	122.20	Initial Hydro-static
1	446.20	120.94	Open To Flow (1)
31	409.50	104.51	Shut-h(1)
61	1876.65	127.66	End Shut-h(1)
63	397.84	102.22	Open To Flow (2)
112	387.45	90.26	Shut-h(2)
151	1865.43	122.97	End Shut-h(2)
153	2794.56	115.88	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	Gcm 40g 60m	0.59
94.00	Gcm 20g 80m	0.76
93.00	Gcm 15g 85m	1.30
0.00	GTS	0.00

\* Recovery from multiple tests

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/c)
First Gas Rate	0.75	70.00	1318.32
Last Gas Rate	1.00	55.00	1995.17
Max. Gas Rate	0.75	90.00	1630.71

**ROCK TYPES**

sdy lmst    
  Lmst fw7>    
  Carbon Sh    
  Ss  
 Lmst fw<7    
 shale, gry    
 shale, red

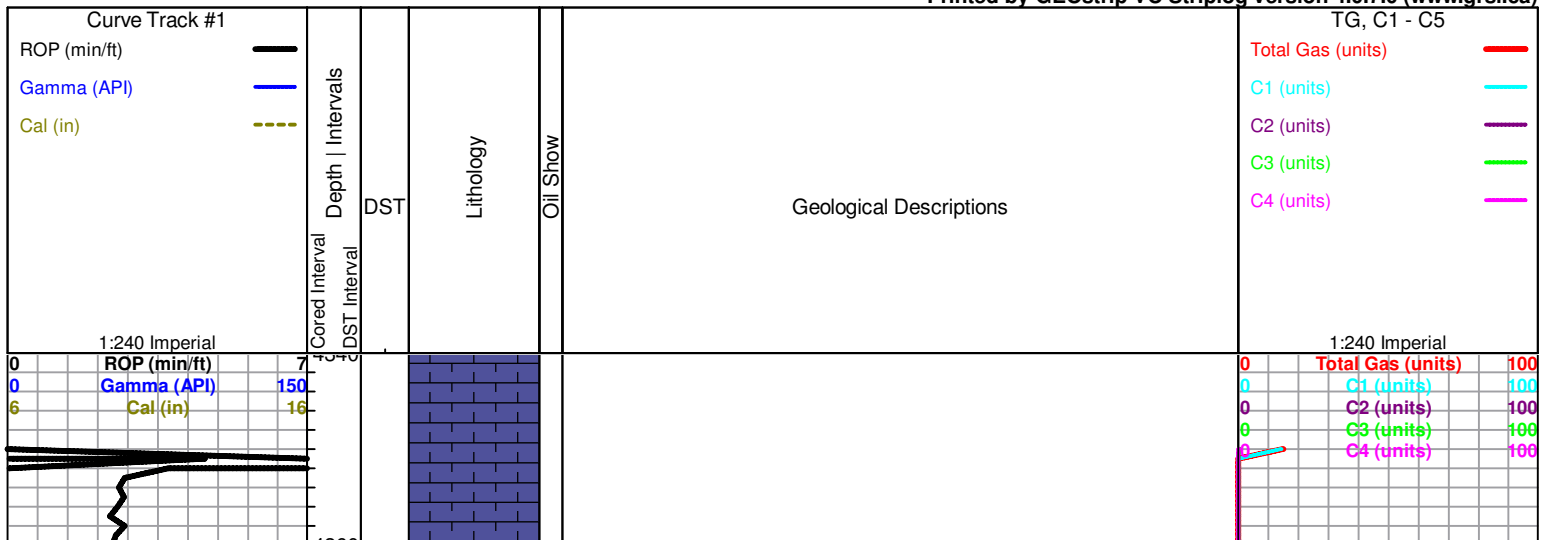
**ACCESSORIES**

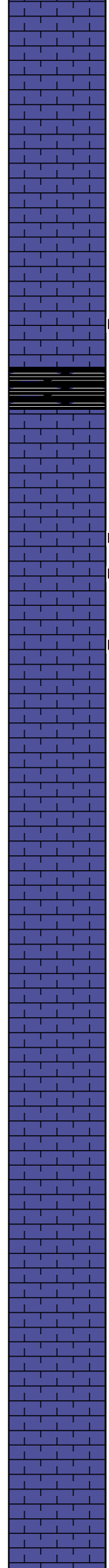
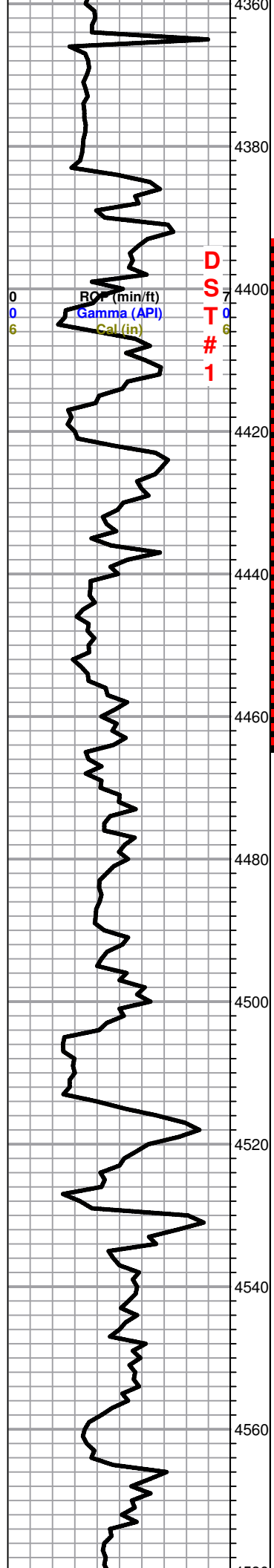
**FOSSIL**  
 ○ Oolite  
**STRINGER**  
 ● Sandstone

**OTHER SYMBOLS**

**Oil Show**  
 ● Good Show  
 ● Fair Show  
 ● Poor Show  
 ○ Spotted or Trace  
 ○ Questionable Stn  
 D Dead Oil Stn  
 ■ Fluorescence  
 \* Gas  
**DST**  
 ■ DST Int  
 ■ DST alt  
 ■ Core  
 ■ tail pipe

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Sh. black gry, silty

LS, cream to tan, F-MXL, chakly, poor scattered porosity, Lt. flor. cut, no odor, no shows free oil

**Heebner 4416.0 (-1672.0)**

Black carb Sh.

**Toronto 4427.0 (-1683.0)**

LS, tan, cream, FXL, chalky, poor to fair scattered porosity, Lt. black stain, fair flor. cut, no odor

LS, tan, brown, FXL, few foss, poor scattered porosity, Lt. flor cut, no odor

LS, cream tan, gry, FXL, cherty poor visible porosity, few foss, no shows

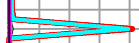
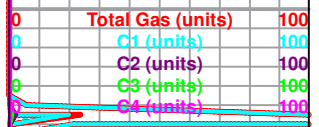
LS, cream FXL, chalky, poor visible porosity, no shows

Sh. gry, silty

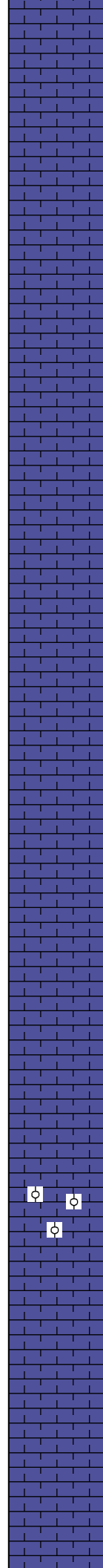
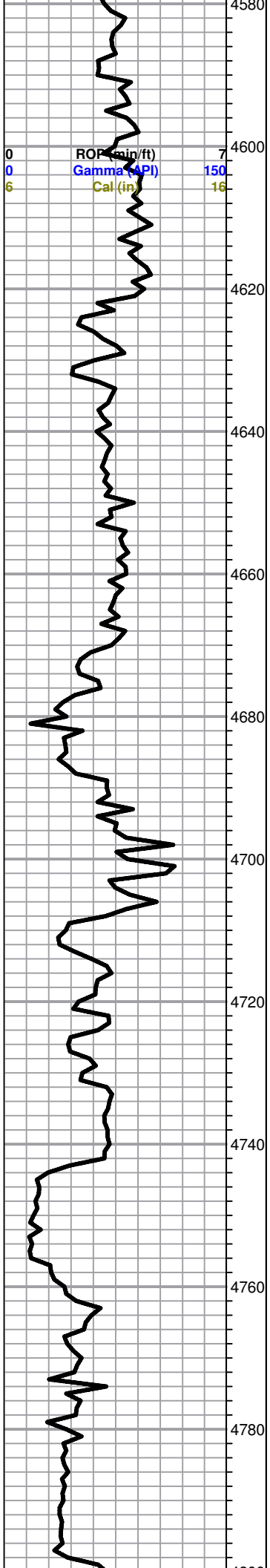
LS, tan, cream, FXL, dense, poor visible porosity, no shows

**Lansing 4560.0 (-1816.0)**

LS, cream, FXL, cherty, poor visible porosity, few foss, no shows







LS, cream, FXL, ool, poor scattered porosity, no shows

LS, tan, FXL, SI. chalky, few foss, poor scattered porosity, no shows

LS, tan, gry, FXL, dense, few foss, poor visible porosity, no shows

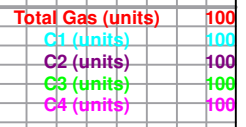
LS, tan, FXL, foss, chalky, poor scattered porosity, no shows

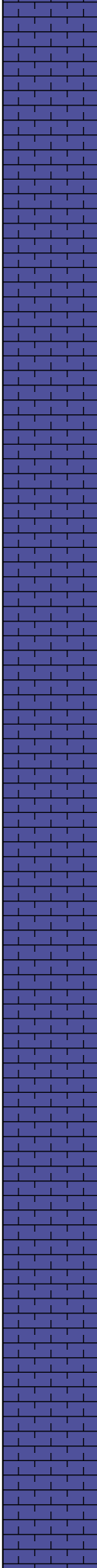
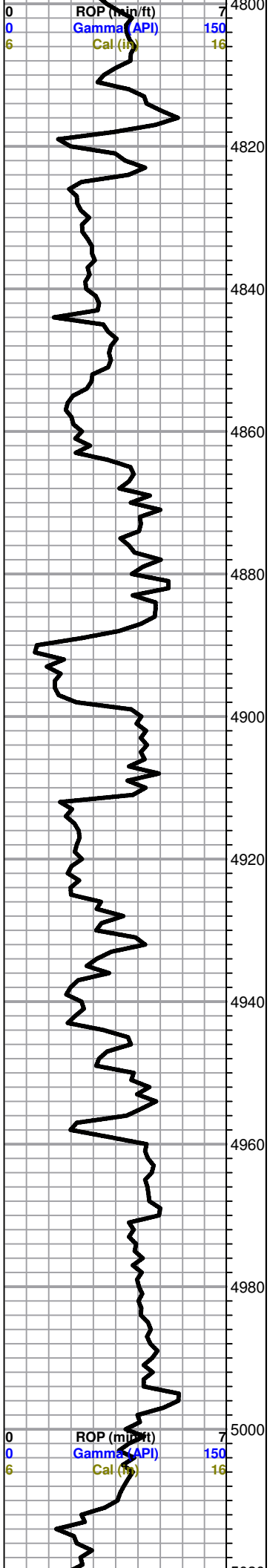
LS, A/A

LS, tan, FXL, cherty, poor visible porosity, no shows

LS, tan, F-MXL, ool, poor to fair vuggy porosity, no shows

LS, tan, gry, FXL, few foss, chalky in parts, no shows





LS, tan, A/A

LS, tan, FXL, few foss, sl. chalky in parts, no shows

LS, tan, brown, FXL, cherty, poor visible porosity, no shows

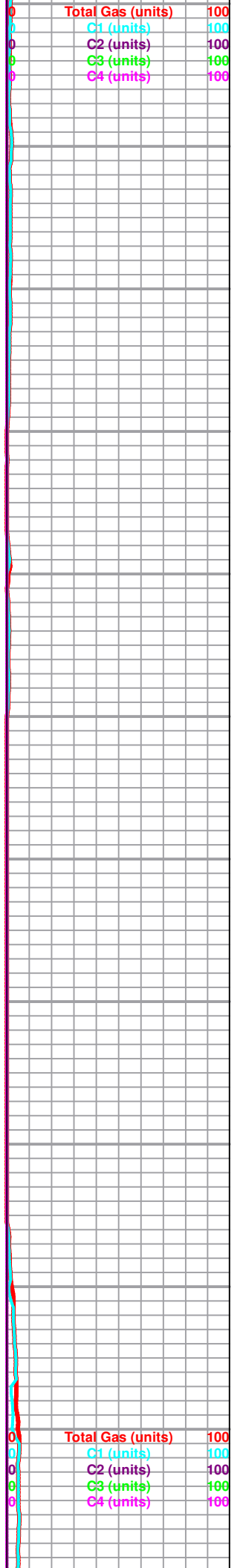
LS, tan, ool, good vuggy porosity, no shows

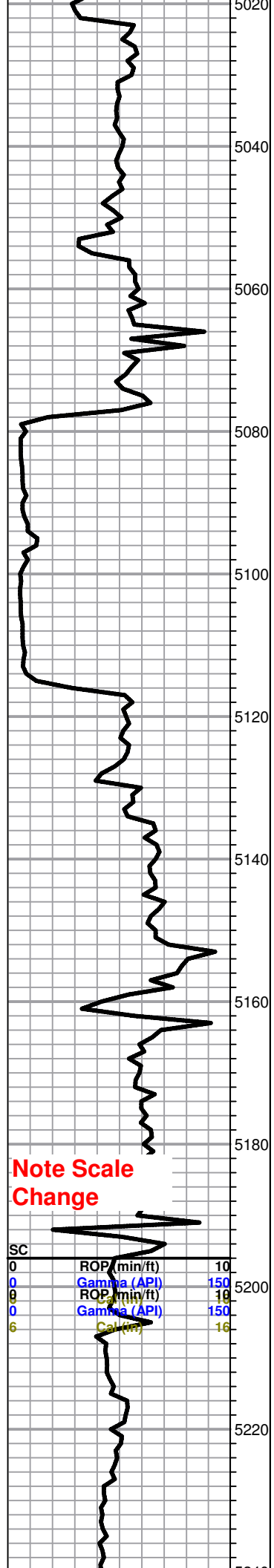
LS, tan, brown, FXL, dense, sl. chalky, few foss, poor visible porosity, no shows

LS, tan, brown, FXL, few foss, poor scattered porosity, no shows

LS, tan, gry, brown, FXL, dense, few foss, poor visible porosity, sl. chalky in parts, (slug gray silty shale?)

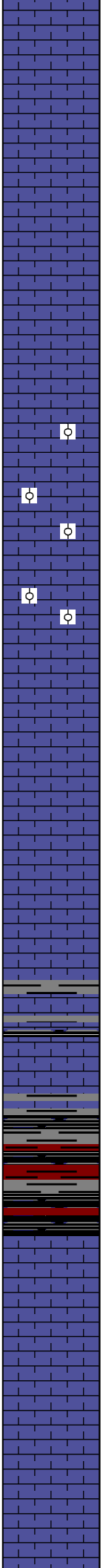
Black carb Sh.





Note Scale Change

SC	ROP (min/ft)	Gamma (API)
0	10	150
0	10	150
0	10	150
6	16	150



LS, tan, ool, poor scattered porosity, chalky in parts, no shows

LS, cream, tan, oom, good vuggy porosity, no shows

LS, tan, oom, good vuggy porosity, no shows

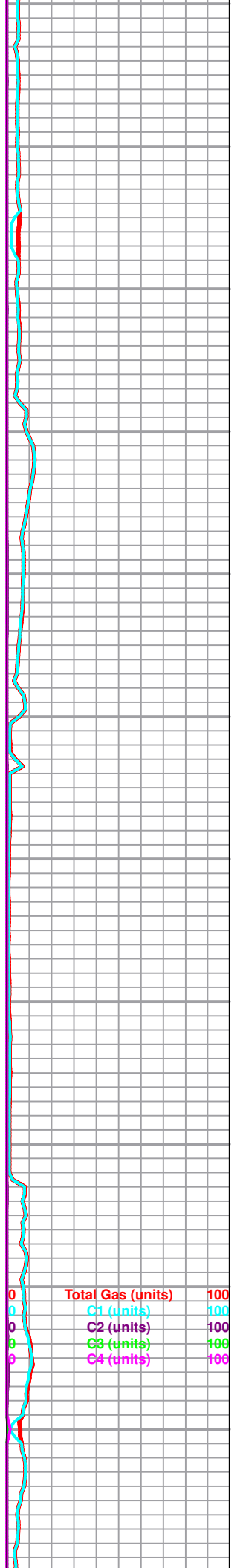
LS, tan, FXL, dense, poor visible porosity, no shows

LS, A/A, trc. gray silty sh.

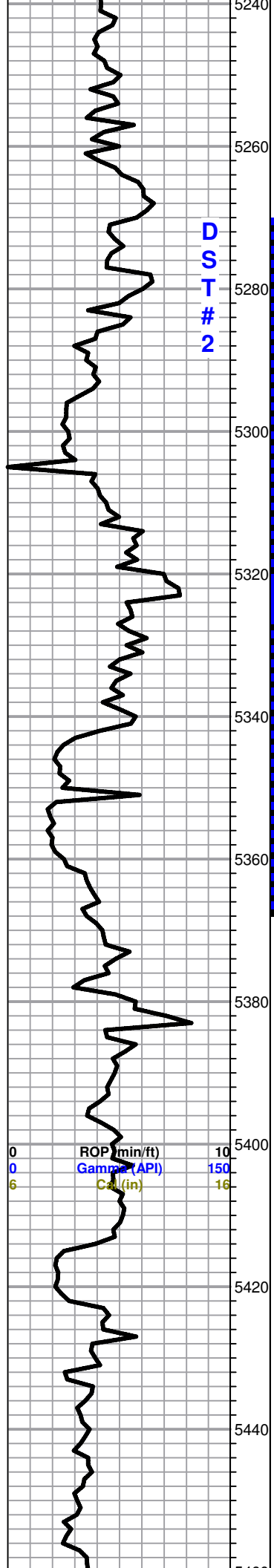
Sh. gry, maroon, silty

LS, cream tan, FXL, dense, cherty, poor visible porosity

LS, tan, brown, FXL, dense, poor scattered porosity, no shows no odor



Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100



**Marmaton 5262.0 (-2518.0)**

LS, tan, brown, FXL, dense, cherty, poor visible porosity, no shows

LS, tan, brown, F-MXL, V. chalky, poor scattered porosity, good flor. cut, no odor,

LS, tan, brown, FXL, dense, cherty, poor visible porosity, few foss, no shows, no flor. cut

LS, tan, brown, FXL, chalky, Lt. sppty, flor. cut, no odor

LS, tan, brown, FXL, few foss, poor scattered porosity, Lt. sppty flor cut. no odor

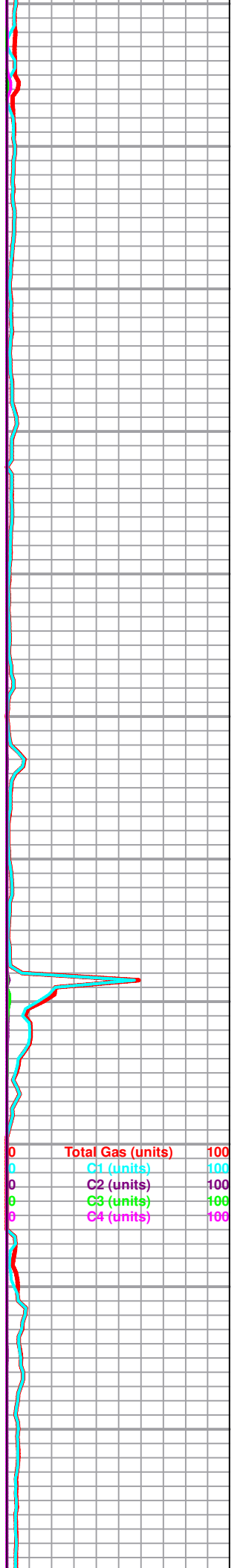
LS, cream to tan, FXL, few foss, cherty, poor visible porosity, no shows, no odor

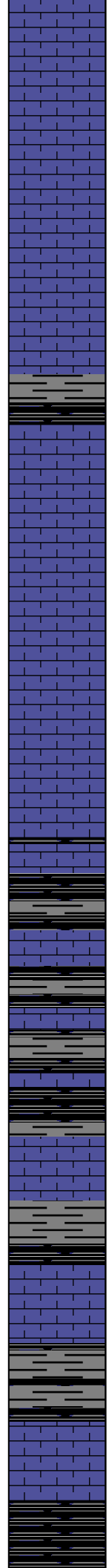
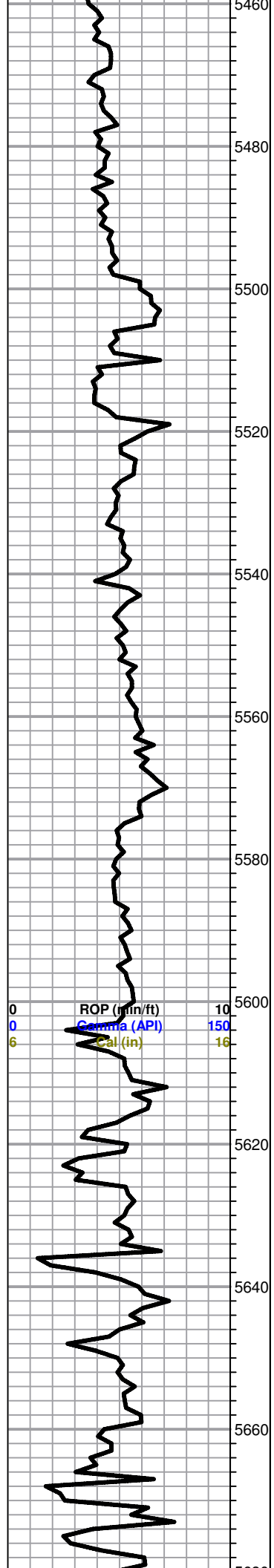
LS, tan, brown, FXL, cherty, poor visible porosity, no shows, no odor

Black carb Sh.

LS, tan, brown, FXL, chalky, few ool, poorly developed, poor scattered porosity, no shows, no odor

LS, tan, buff, FXL, dense, few foss, poor visible





LS, tan, bun, FXL, dense, few foss, poor visible porosity, no shows no ,odor

5480 LS, cream to tan, FXL, dense, few foss, poor visible porosity, no shows

5500 LS, gry, tan, earthy, chalky in parts, poor visible porosity no shows, no flor. cut, no odor

5520 Sh. gry, black, silty

5540 LS, cream, tan, mottled, FXL, poor visible porosity, cherty in parts, no shows

5560 LS, tan, brown, FXL, dense, poor scattered porosity, no shows

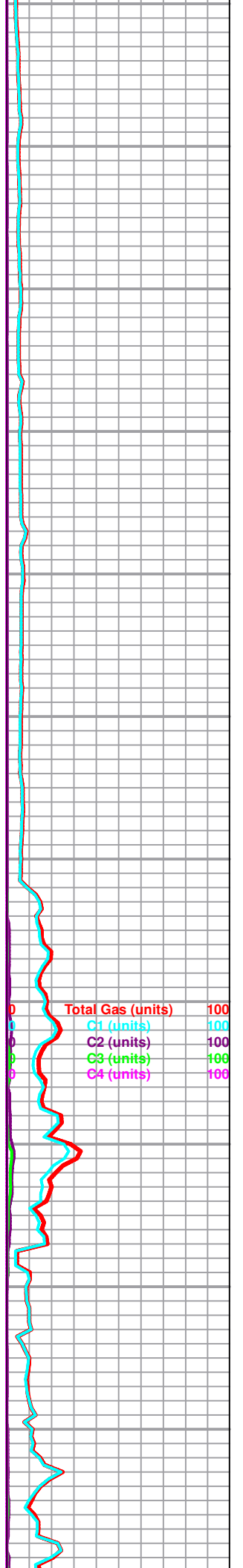
5580 Sh. black, gry, silty,  
Trc. LS, tan, FXL, dense, few foss, poor scattered porosity, no shows

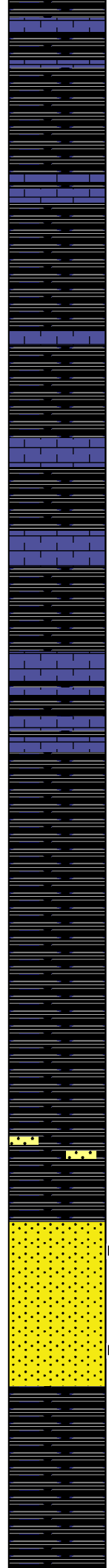
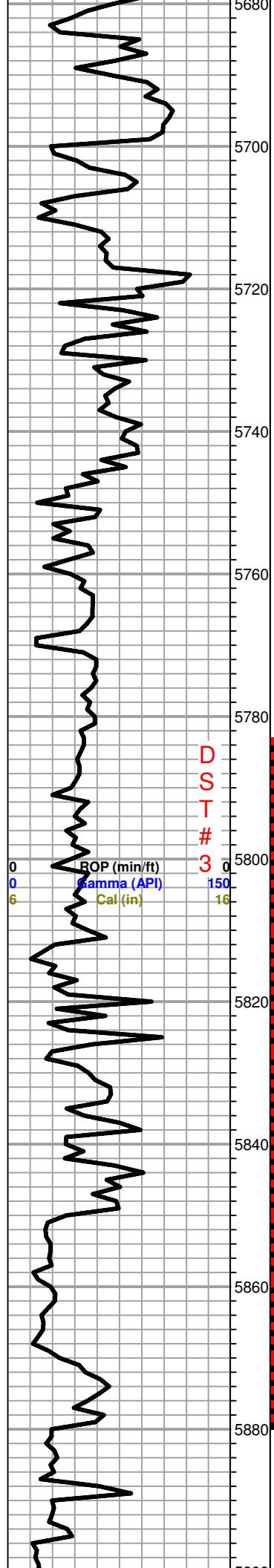
5600 Sh. black gry, silty

5620 Sh. black, gry, silty, Trc. LS, tan, cream, poor visible porosity, no shows

5640 Sh. black carb, gry, silty,  
Trc. LS, white, FXL, chalky, poor visible porosity, no shows no odor

5660 LS, tan, brown, FXL, cherty, dense, poor visible porosity, no shows, Trc. black carb Sh.





LS, tan, cream, FXL, dense, cherty, poor visible porosity, no shows

Black carb Sh.

Black carb Sh.  
Trc. LS, tan, brown, mottled, FXL, dense, cherty in parts, poor visible porosity, no shows

Black carb Sh. trc. LS, cream to tan, FXL, few chalky, poor visible porosity, no shows

Black carb. Sh. trc. LS, tan, brown, FXL, chalky, no shows no odor

**Morrow 5806.0 (-3062.0)**

Black carb Sh. few silty maroon,

Black carb Sh.

Sd. tan, brown, F. grain, well sorted, Lt. flor cut , no odor

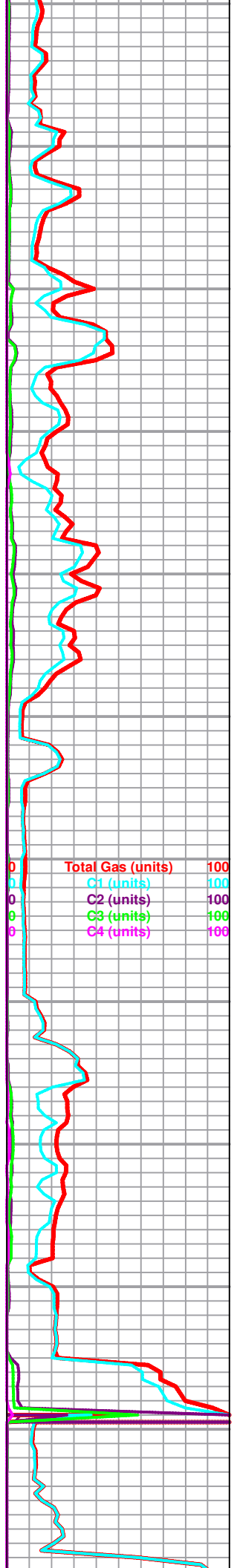
**Morrow Sd. 5845.0 (-3101.0)**

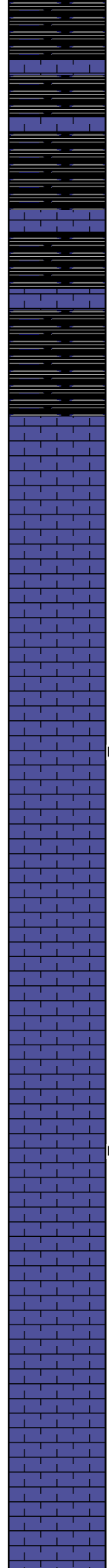
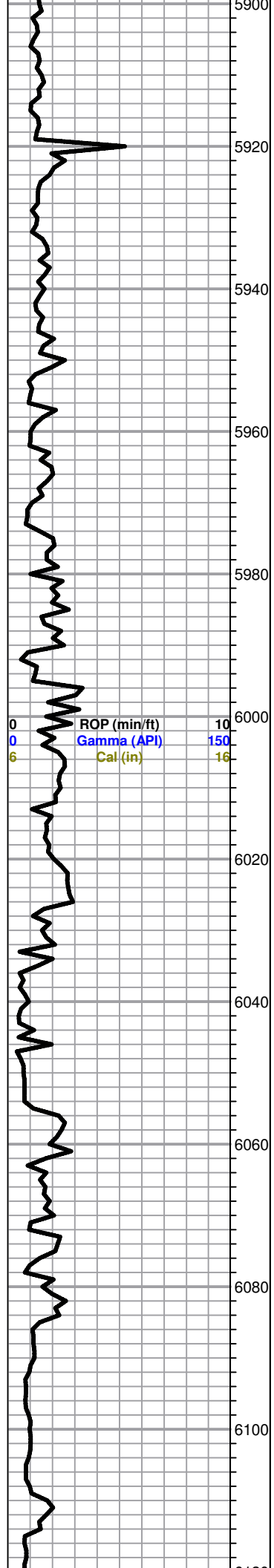
Sd. white, F.grain, well sorted, sub angular, Lt. sppty flor. cut, no odor

Sd. white, tan, F-M grain, well sorted, sub angular, good flor. cut, no odor, no SFO

Black carb Sh.

Black carb. few maroon, sh.





Black carb Sh.

5920

Sh. black, gry, maroon, silty, trc. LS, cream, few ool, poor scattered porosity, chalky, no shows

5940

Black carb

**Chester 5952.0 (-3208.0)**

5960

LS, cream, tan, FXL, chalky in parts, poor visible porosity, no shows, no flor. cut.

5980

0 ROP (min/ft) 10  
0 Gamma (API) 150  
6 Cal (in) 16

LS, cream to tan, FXL, chalky, poor scattered porosity, Lt. flor cut. no odor

6020

LS, cream to tan, FXL, poor scattered porosity, no shows

6040

LS, cream gry, tan, FXL, dense, poor visible porosity, Lt. flor cut (min. ??) no odor

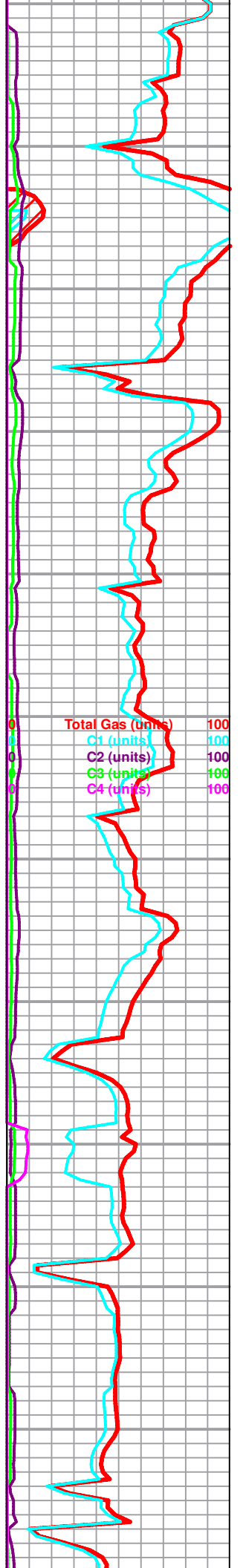
6060

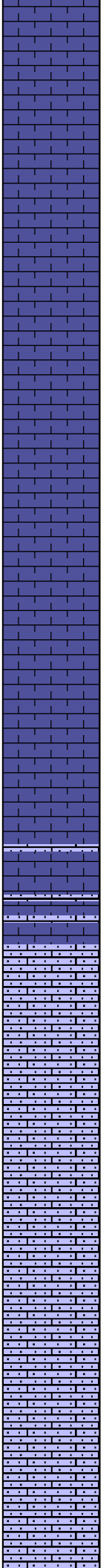
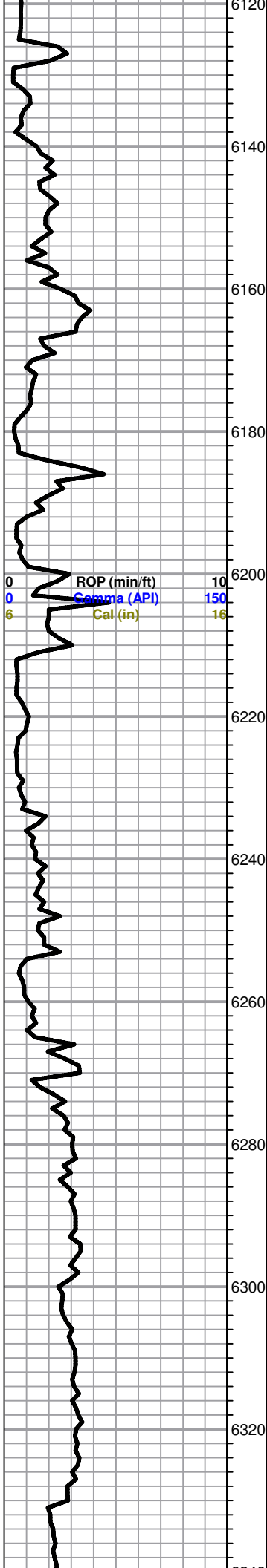
6080

LS, cream to tan, FXL, dense, poor visible porosity, no shows no odor

6100

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100





LS, tan, cream, FXL, few foss, scattered porosity, no shows no odor

LS, tan, FXL, cherty in parts, poor scattered porosity, no shows, no odor

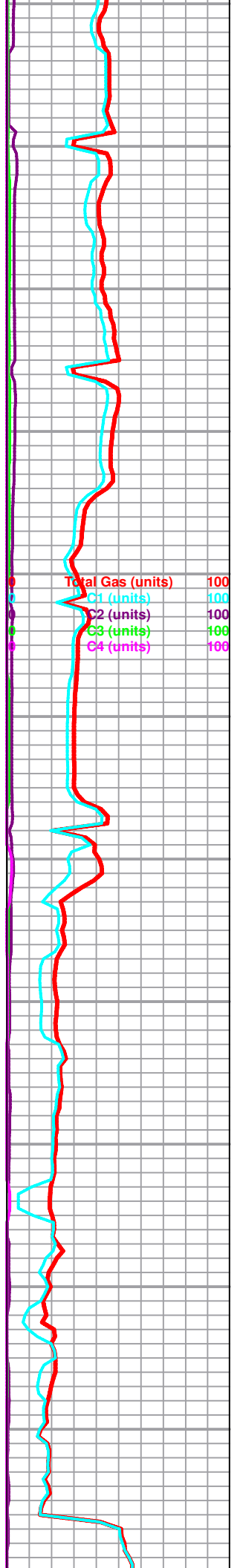
LS, tan, brown, FXL, cherty in parts, few LS, tan, brown, micro ool, friable, no shows, no odor.

**Ste. Gen 6256.0 (-3512.0)**

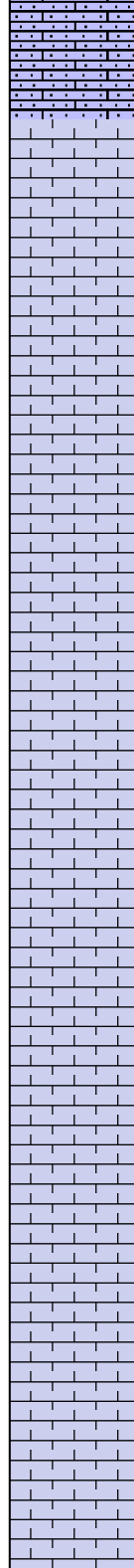
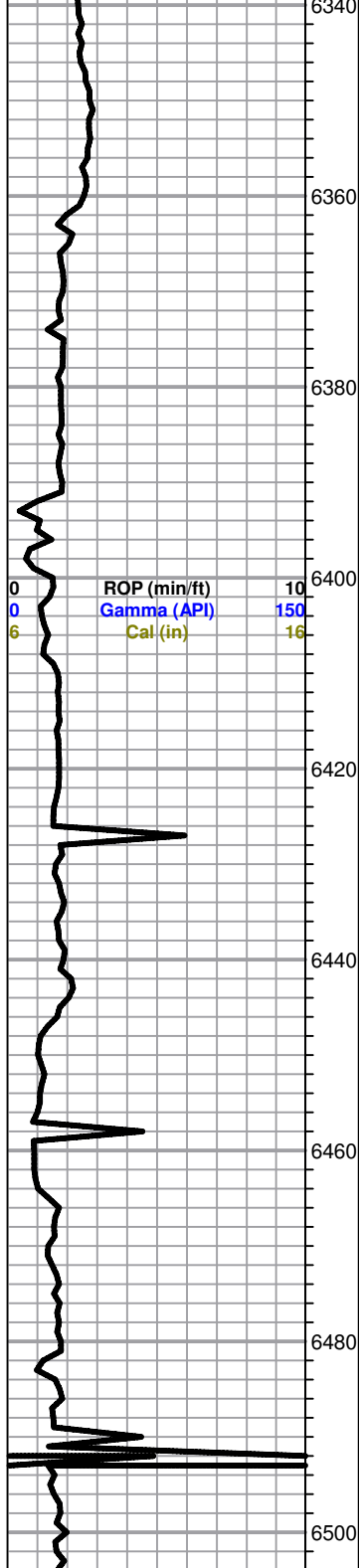
LS, tan, micro ool, friable no shows

LS, tan, brown, micro ool, friable, no shows

LS, tan, brown, maroon, micro ool, no shows







**St. Louis 6351.0 (-3607.0)**

LS, cream to tan, chalky, few foss, poor scattered porosity, no shows

LS, cream, FXL, V. chalky, few ool, no flor. cut no odor

LS, cream, FXL, V. chalky, poor visible porosity, no shows

LS, cream, to tan, FXL, few ool, poor scattered porosity, no shows

**RTD 6500.0 (-3756.0)**

