



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1223535
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: _____

1223535

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	Handy 9-29
Doc ID	1223535

Tops

Name	Top	Datum
Heebner	4416'	-1683
Toronto	4444'	-1711
Lansing	4569'	-1836
Marmaton	5258'	-2525
Morrow	5797'	-3064
Chester	5955'	-3222
St.Gen	6264'	-3531
St.Louis	6380'	-3647

CEMENTING LOG

Date 7/7/2014 District Liberal # 21 Ticket No. 52578
 Company American Warrior Rig Duke # 9
 Lease HANDEY #9 Well No 29
 County SEWARD State KS

Location _____
 Field _____

Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner

Size 8 5/8 Type _____ Weight 24 Collar _____

Casing Depths Top _____ Bottom 1702

Drill Pipe: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Open Hole: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Capacity Factors: BBLs/LIN. FT _____ LIN. FT/BBL _____
 Casing BBLs/LIN. FT 0.0637 LIN. FT/BBL _____
 Open Holes BBLs/LIN. FT _____ LIN. FT/BBL _____
 Drill Pipe BBLs/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLs/LIN. FT 0.0735 LIN. FT/BBL 13.6037
 BBLs/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type 5 BBL WATER
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Time _____ hrs. Type CLASS A
65/35, 6%GEL, 3%BWOC CC, 1/4 FLOSEAL Excess _____

Amt. 700 Sks Yield 2 ft³/sk Density 12.46 PPG

TAIL: Time _____ hrs. Type CLASS A
3%cc, 1/4 floeal Excess _____

Amt. 200 Sks Yield 1.2 ft³/sk Density 15.63 PPG

WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total _____ BBLs

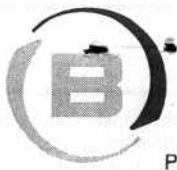
Pump Trucks Used: 903-501
 Bulk Equipment 955-528
956-841

Float Equipment: Manufacturer WEATHERFORD
 Shoe: Type GUIDE SHOE Depth 1700
 Float: Type AFU Insert Valve Depth 1660
 Centralizers: Quantity 3 Plugs Top 1 Bottom _____
 Stage Collars _____
 Special Equipment 1 Cement Basket @ 924 ft
 Disp: Fluid Type H2O Amt 105.7 bbls Weight 8.34 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER ALDO ESPINOZA

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
1000PM						ARRIVE TO LOCATION -- RUN FLOAT EQUIPMENT
115AM						CASING ON BOTTOM
220AM						RIG UP
245AM						SAFETY MEETING
315AM	1400					PRESSURE TEST
316AM	60		5		5	5 BBL WATER SPACER
318AM	80		254		5	PUMP 249 BBL OF LEAD SLURRY CEMENT
359AM	80		297		5	PUMP 43 BBL OF TAIL SLURRY CEMENT
413AM					5	RELEASE PLUG- START DISPLACEMENT
417AM	120		317		5	20 BBL GONE
421AM	250		337		5	40 BBL GONE
424AM	360		357		5	60BBLGONE
427AM	500		377		5	80 BBL GONE
431AM	550		397		3	100 BBL GONE SLOW DOWN TO 3 BPM
434AM	1090		403		3	BUMP PLUG
439AM						RELEASE PRESSURE, CHECK FLOATS
500AM						RIG UP
530AM						LEAVE LOCATION
						10 BBL OF CEMENT BACK
						BY EMIGDIO'S REQUEST MIX LEAD SLURRY @ 13 # / G
						DID NOT LOST CIRCULATION DURING JOB

FINAL DISP. PRESS. 550 PSI BUMP PLUG TO 1090 PSI BLEEDBACK 0.5 BBLs THANK YOU



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1717 05959 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>7-18-14</u> DISTRICT <u>1717</u>		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 <u>Palmer Oil - American Warrior</u>		LEASE <u>Hondy</u> # <u>9-29</u>		WELL NO.					
ADDRESS		COUNTY <u>Seward</u>		STATE <u>KS</u>					
CITY STATE		SERVICE CREW <u>I Chavez, Sam, Ismael, Roger</u>							
AUTHORIZED BY <u>Sam Batt</u>		JOB TYPE: <u>242 5 1/2 Long String</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>78938</u>	<u>9</u>	<u>44355</u>	<u>9</u>	<u>133021 -</u>	<u>9</u>		<u>7-18-14</u>	<u>PM</u>	<u>200</u>
		<u>37725</u>	<u>1</u>	<u>14284 -</u>	<u>1</u>	ARRIVED AT JOB	<u>7-18-14</u>	<u>AM</u>	<u>330</u>
<u>✓70897 -</u>	<u>9</u>					START OPERATION	<u>7-18-14</u>	<u>AM</u>	<u>930</u>
<u>49570 -</u>	<u>1</u>					FINISH OPERATION	<u>7-18-14</u>	<u>AM</u>	<u>712.5</u>
						RELEASED	<u>7-18-14</u>	<u>AM</u>	<u>1245</u>
						MILES FROM STATION TO WELL			<u>15</u>

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: X Emigdio 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 P02	SK	50		600 00
CC113	✓ Gypsum	16	2115		1586 25
CC111	✓ Salt	16	2490		1245 00
CC103	✓ C-15	16	254		3175 00
CC105	✓ C-41P	16	106		424 00
CC201	✓ Gilsomite	16	2250		1507 50
CF1751	✓ AFU Float Valve	EA	1		360 00
CF607	✓ Hatch Dam Plug + Baffle	EA	1		400 00
CF4452	✓ Centralizer 5 1/2	CA	12		900 00
CF4352	✓ Cement Basket	CA	2		1910 00
CF3000	✓ FR Thread Lock Kit	EA	1		34 00
CC155	✓ Super Flash II	SK	500		765 00
E101	Heavy Equipment Mixture	mi	45		315 00
CE240	Blending & Mixing Charge	SK	500		700 00
E113	Bulk Delivery Charge	TM	350		768 90
CE207	Depth Charge	4hrs	1		3240 00
CE504	Plus Container Charge	Job	1		250 00
E100	Pickup Mixture	mi	15		63 75
SUB TOTAL					17296 11

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Izzy Chavez

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X Emigdio Rojas
(WELL OWNER OPERATOR, CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>Palmer Oil - American Warrior</i>	Lease No.	Date <i>7-18-14</i>
Lease <i>Handy</i>	Well # <i>9-29</i>	Service Receipt <i>05959</i>
Casing <i>5 1/2</i>	Depth <i>6497</i>	County <i>Seward</i>
Job Type <i>242 Long String</i>	Formation	Legal Description

Pipe Data		Perforating Data		Cement Data
Casing size <i>5 1/2</i>	Tubing Size	Shots/Ft		Lead <i>50516 6040</i>
Depth <i>6497</i>	Depth <i>55-42</i>	From	To	<i>1.48 FT-5K PDZ</i>
Volume <i>150615</i>	Volume	From	To	<i>7.3766d-5K 13.5#</i>
Max Press <i>2000</i>	Max Press	From	To	Tail in <i>45052 AA2</i>
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	<i>1.51 FT-5K</i>
Plug Depth <i>6455</i>	Packer Depth	From	To	<i>6.64 Cd-5K 14.8#</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>330</i>					<i>Arrive On Location</i>
<i>400</i>					<i>Safety Meeting - Mix Up</i>
<i>400</i>					<i>Begin Running Casing</i>
<i>930</i>					<i>Circulate 1/2 hrs</i>
<i>1000</i>					<i>Hook Up To BES</i>
<i>1010</i>	<i>2200</i>		<i>1</i>	<i>1</i>	<i>Pressure Test</i>
<i>1015</i>	<i>400</i>		<i>5</i>	<i>5</i>	<i>Pump Water Spacer</i>
<i>1020</i>	<i>375</i>		<i>10</i>	<i>5</i>	<i>Pump Super Flush</i>
<i>1025</i>	<i>350</i>		<i>5</i>	<i>5</i>	<i>Pump Water Spacer</i>
<i>1030</i>	<i>300</i>		<i>121</i>	<i>4</i>	<i>Pump amt @ 14.8#</i>
<i>1110</i>					<i>Prep Plug - Wash up</i>
<i>1115</i>	<i>650</i>		<i>140</i>	<i>6</i>	<i>Displace</i>
<i>1140</i>	<i>1100</i>		<i>10</i>	<i>2</i>	<i>Stand Down</i>
<i>1145</i>	<i>1600</i>		<i>1</i>	<i>1</i>	<i>Band Plug Flood Held</i>
					<i>Plug Rest & Measure Hole</i>
					<i>Job Complete</i>

Service Units	<i>78438</i>	<i>70897-14570</i>	<i>14355-37725</i>	<i>35021-14284</i>	
Driver Names	<i>Erzy</i>	<i>Sam</i>	<i>Roger</i>	<i>Israel</i>	

Erzy
Customer Representative

Sam Beth
Station Manager

Erzy
Cementer



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Wyatt Urban

Handy #9-29

29-34s-31w-Seward,KS

Start Date: 2014.07.13 @ 02:27:00

End Date: 2014.07.13 @ 10:40:00

Job Ticket #: 56550 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 15:10:17



**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 #9-29

Job Ticket: 56550

DST#: 1

Test Start: 2014.07.13 @ 02:27:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:00

Time Test Ended: 10:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 48

Interval: 5277.00 ft (KB) To 5363.00 ft (KB) (TVD)

Reference Elevations: 2733.00 ft (KB)

Total Depth: 5363.00 ft (KB) (TVD)

2720.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 13.00 ft

Serial #: 8321

Inside

Press@RunDepth: 607.23 psig @ 5281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.13

End Date:

2014.07.13

Last Calib.: 2014.07.13

Start Time: 02:27:01

End Time:

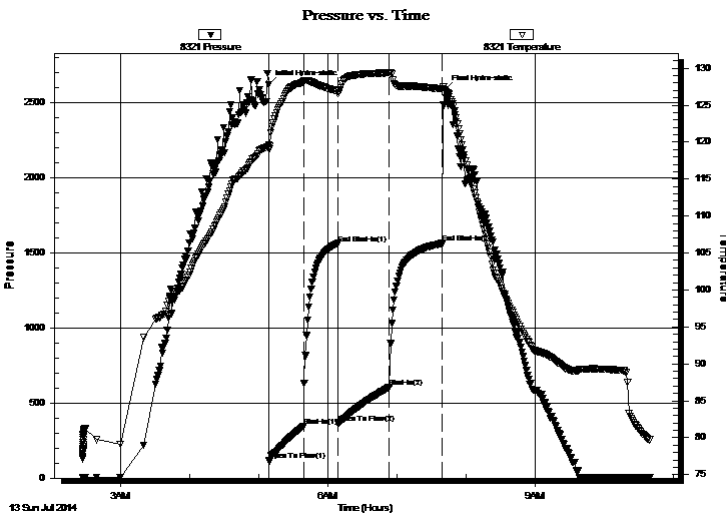
10:40:00

Time On Btm: 2014.07.13 @ 05:08:30

Time Off Btm: 2014.07.13 @ 07:41:30

TEST COMMENT: IF: B.o.b. in 4 1/2 min.
IS: Bled off in 3 min.-No return
FF: B.o.b. in 8 min.
FS: Bled off in 3 min.-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2618.68	119.59	Initial Hydro-static
1	116.56	119.04	Open To Flow (1)
31	345.37	128.16	Shut-In(1)
60	1561.81	126.92	End Shut-In(1)
61	363.21	126.59	Open To Flow (2)
105	607.23	129.37	Shut-In(2)
151	1563.41	127.21	End Shut-In(2)
153	2583.94	127.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mcsw 4m 96sw	0.89
441.00	Mcsw 8m 92sw	6.19
315.00	Mcsw 20m 80sw	4.42
189.00	Mcsw 40m 60sw	2.65
126.00	Mcsw 50m 50sw	1.77

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 #9-29

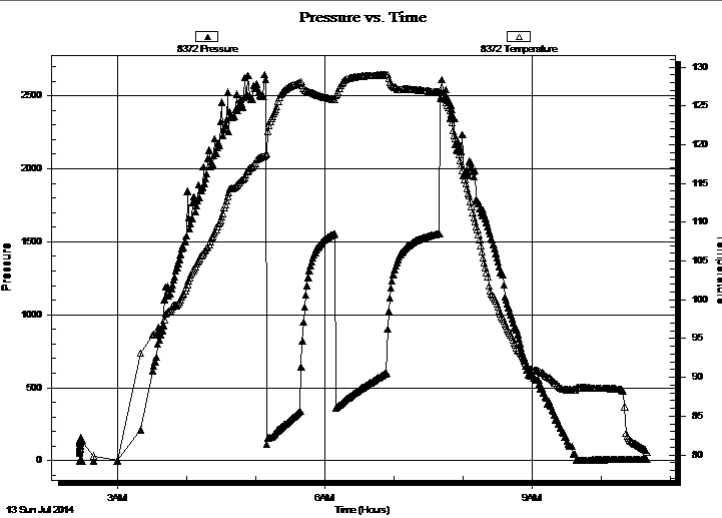
Job Ticket: 56550 **DST#: 1**
 Test Start: 2014.07.13 @ 02:27:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:09:00
 Time Test Ended: 10:40:00
 Interval: **5277.00 ft (KB) To 5363.00 ft (KB) (TVD)**
 Total Depth: 5363.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cornelio Landa III
 Unit No: 48
 Reference Elevations: 2733.00 ft (KB)
 2720.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8372 Outside
 Press@RunDepth: psig @ 5281.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.13 End Date: 2014.07.13 Last Calib.: 2014.07.13
 Start Time: 02:27:01 End Time: 10:40:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: B.o.b. in 4 1/2 min.
 IS: Bled off in 3 min.-No return
 FF: B.o.b. in 8 min.
 FS: Bled off in 3 min.-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mcsw 4m 96sw	0.89
441.00	Mcsw 8m 92sw	6.19
315.00	Mcsw 20m 80sw	4.42
189.00	Mcsw 40m 60sw	2.65
126.00	Mcsw 50m 50sw	1.77

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 #9-29

Job Ticket: 56550

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.07.13 @ 02:27:00

Tool Information

Drill Pipe:	Length: 5085.00 ft	Diameter: 3.80 inches	Volume: 71.33 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: 22000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 72.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5277.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	113.00 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			5251.00	
Shut In Tool	5.00			5256.00	
Hydraulic tool	5.00			5261.00	
Jars	5.00			5266.00	
Safety Joint	2.00			5268.00	
Packer	5.00			5273.00	27.00 Bottom Of Top Packer
Packer	4.00			5277.00	
Stubb	1.00			5278.00	
Perforations	2.00			5280.00	
Change Over Sub	1.00			5281.00	
Recorder	0.00	8321	Inside	5281.00	
Recorder	0.00	8372	Outside	5281.00	
Drill Pipe	63.00			5344.00	
Change Over Sub	1.00			5345.00	
Perforations	15.00			5360.00	
Bullnose	3.00			5363.00	86.00 Bottom Packers & Anchor
Total Tool Length:	113.00				



**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 #9-29

Job Ticket: 56550

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.07.13 @ 02:27:00

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:

12000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	Mcsw 4m 96sw	0.885
441.00	Mcsw 8m 92sw	6.186
315.00	Mcsw 20m 80sw	4.419
189.00	Mcsw 40m 60sw	2.651
126.00	Mcsw 50m 50sw	1.767

Total Length: 1251.00 ft Total Volume: 15.908 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

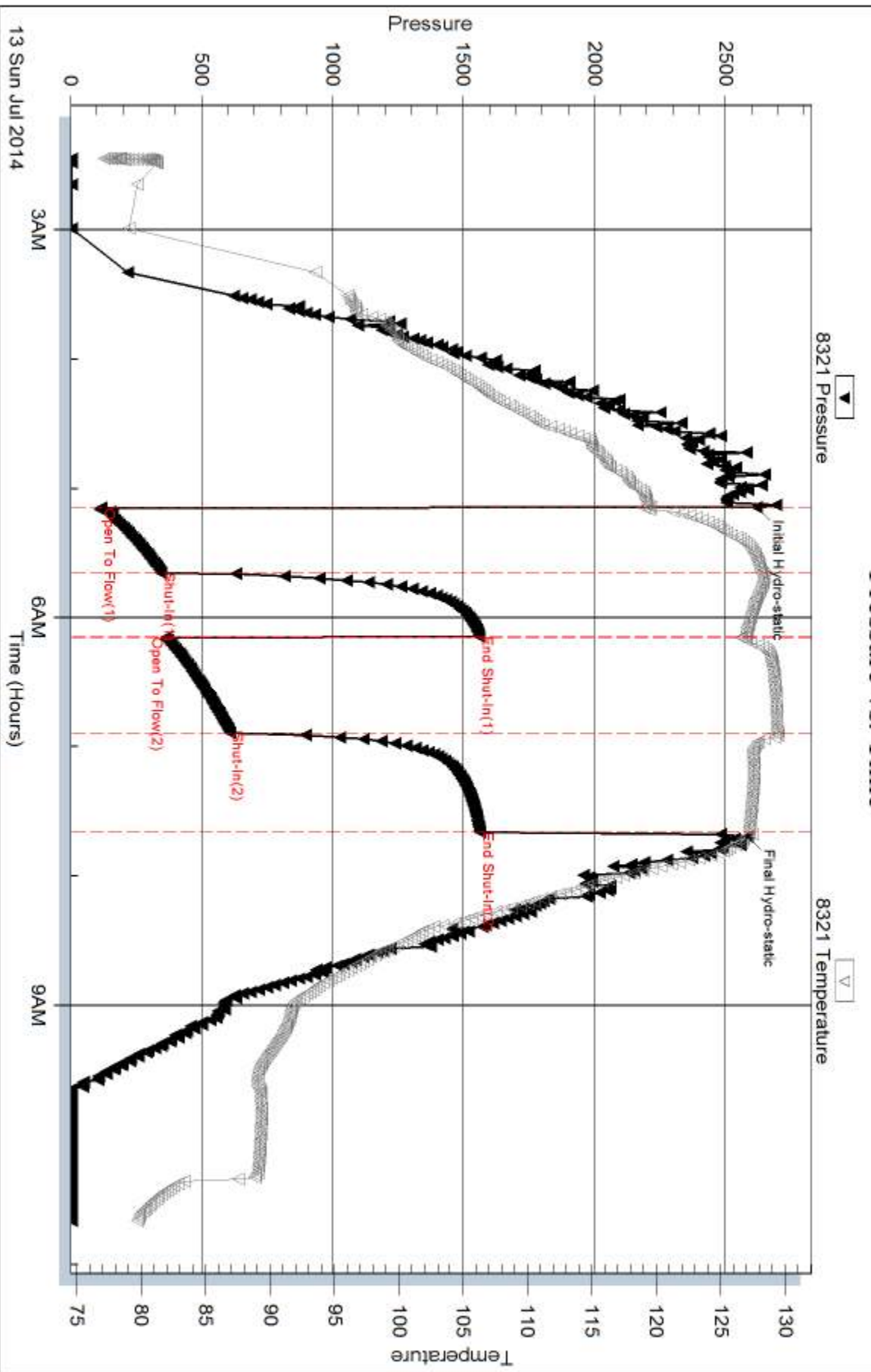
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .47@79=12,000

Pressure vs. Time

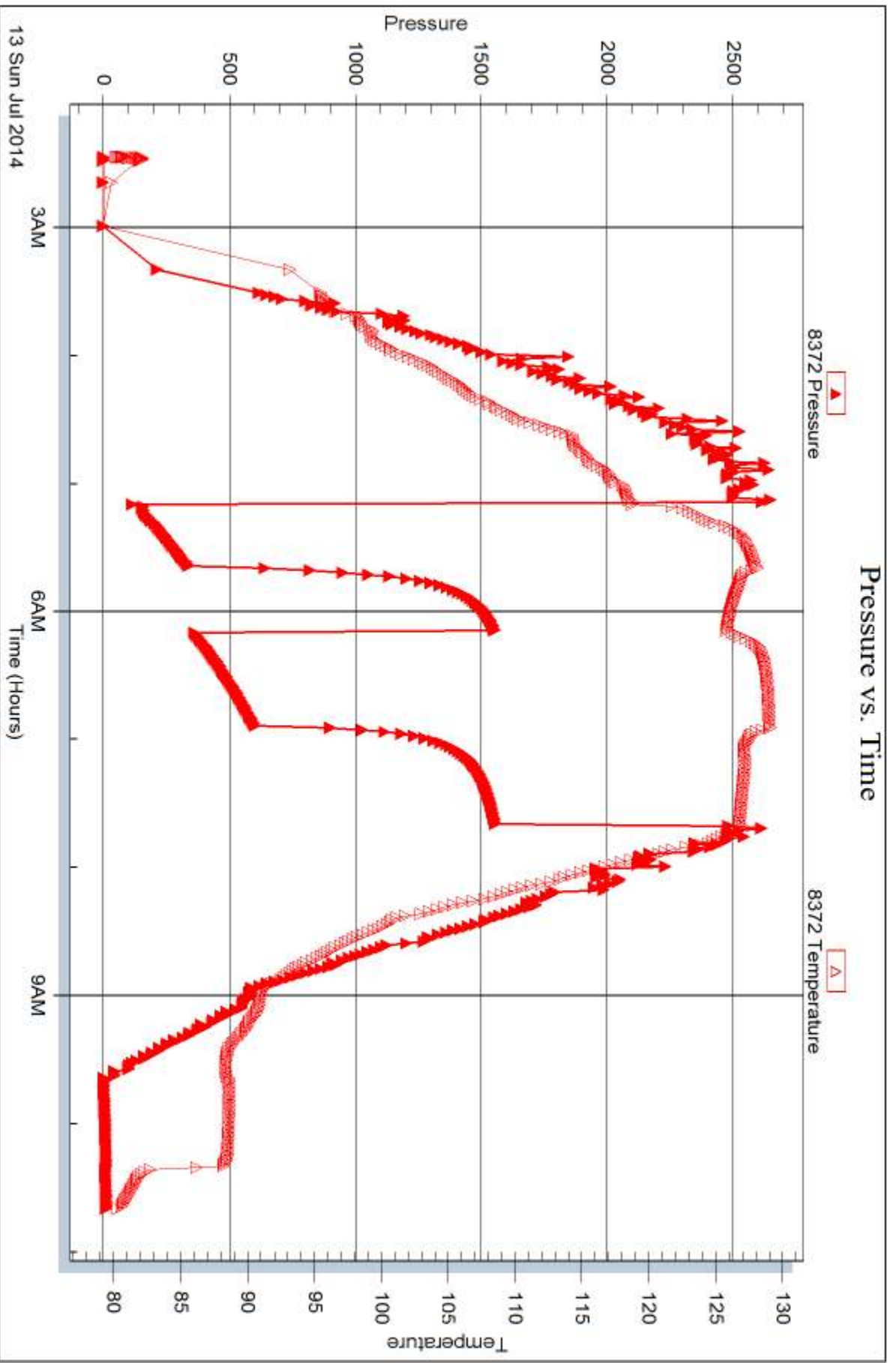


Serial #: 8372

Outside American Warrior Inc.

Handy #9-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56550

Printed: 2014.07.17 @ 15:10:18



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Wyatt Urban

Handy #9-29

29-34s-31w-Seward,KS

Start Date: 2014.07.16 @ 03:40:00

End Date: 2014.07.16 @ 11:03:00

Job Ticket #: 56551 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 15:09:39



**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 #9-29

Job Ticket: 56551

DST#: 2

Test Start: 2014.07.16 @ 03:40:00

GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 11:03:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 48

Interval: 5925.00 ft (KB) To 6050.00 ft (KB) (TVD)

Total Depth: 6050.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2733.00 ft (KB)

2720.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8321

Inside

Press@RunDepth: psig @ 5929.00 ft (KB)

Start Date: 2014.07.16

End Date:

2014.07.16

Start Time: 03:40:01

End Time:

11:03:00

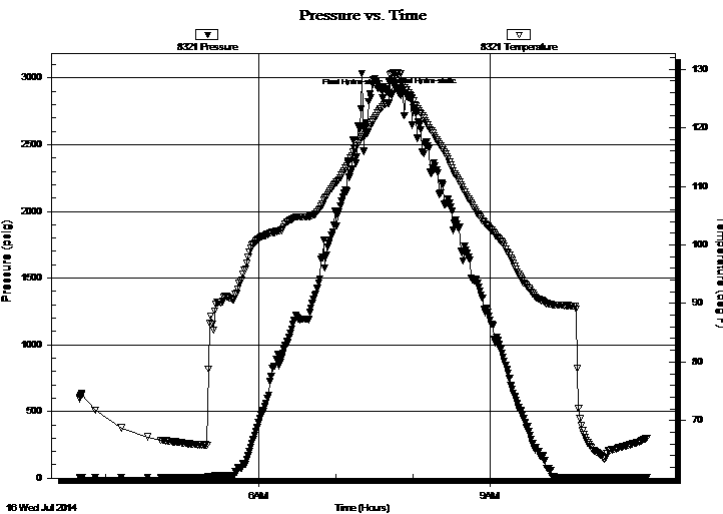
Capacity: 8000.00 psig

Last Calib.: 2014.07.16

Time On Btm: 2014.07.16 @ 07:40:30

Time Off Btm: 2014.07.16 @ 07:42:30

TEST COMMENT: PACKER FAILURE



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2890.57	124.21	Initial Hydro-static
2	2882.59	128.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100m	0.89

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

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

29-34s-31w-Seward,KS

Handy #9-29

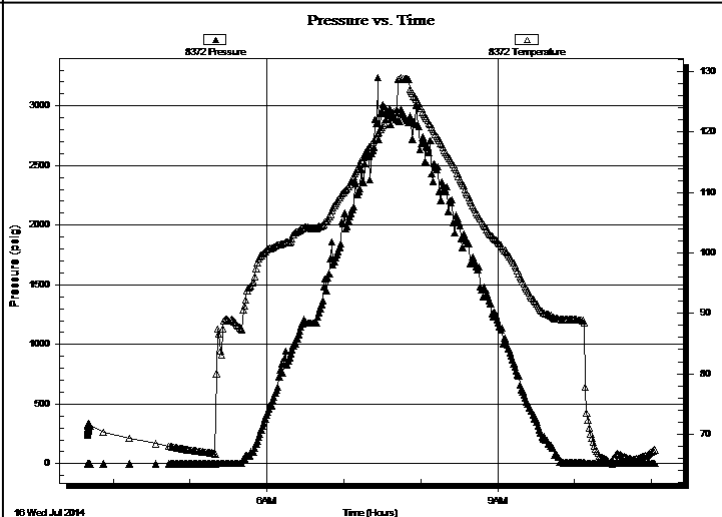
Job Ticket: 56551 **DST#: 2**
 Test Start: 2014.07.16 @ 03:40:00

GENERAL INFORMATION:

Formation: Chester	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Cornelio Landa III
Time Tool Opened:	Unit No: 48
Time Test Ended: 11:03:00	
Interval: 5925.00 ft (KB) To 6050.00 ft (KB) (TVD)	Reference Elevations: 2733.00 ft (KB)
Total Depth: 6050.00 ft (KB) (TVD)	2720.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition:	KB to GR/CF: 13.00 ft

Serial #: 8372	Outside				
Press@RunDepth: psig @ 5929.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2014.07.16 End Date: 2014.07.16	Last Calib.: 2014.07.16				
Start Time: 03:40:01 End Time: 11:02:30	Time On Btm:				
	Time Off Btm:				

TEST COMMENT: PACKER FAILURE



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100m	0.89

Gas Rates

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

* Recovery from multiple tests



**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 #9-29

Job Ticket: 56551

DST#: 2

ATTN: Wyatt Urban

Test Start: 2014.07.16 @ 03:40:00

Tool Information

Drill Pipe:	Length: 5749.00 ft	Diameter: 3.80 inches	Volume: 80.64 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:	24000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	15000.00 lb
			<u>Total Volume: 81.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	84000.00 lb
Depth to Top Packer:	5925.00 ft			Final	84000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	125.00 ft				
Tool Length:	152.00 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			5899.00	
Shut In Tool	5.00			5904.00	
Hydraulic tool	5.00			5909.00	
Jars	5.00			5914.00	
Safety Joint	2.00			5916.00	
Packer	5.00			5921.00	27.00 Bottom Of Top Packer
Packer	4.00			5925.00	
Stubb	1.00			5926.00	
Perforations	2.00			5928.00	
Change Over Sub	1.00			5929.00	
Recorder	0.00	8321	Inside	5929.00	
Recorder	0.00	8372	Outside	5929.00	
Drill Pipe	94.00			6023.00	
Change Over Sub	1.00			6024.00	
Perforations	23.00			6047.00	
Bullnose	3.00			6050.00	125.00 Bottom Packers & Anchor
Total Tool Length:	152.00				



**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 #9-29

Job Ticket: 56551

DST#: 2

ATTN: Wyatt Urban

Test Start: 2014.07.16 @ 03:40:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud 100m	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

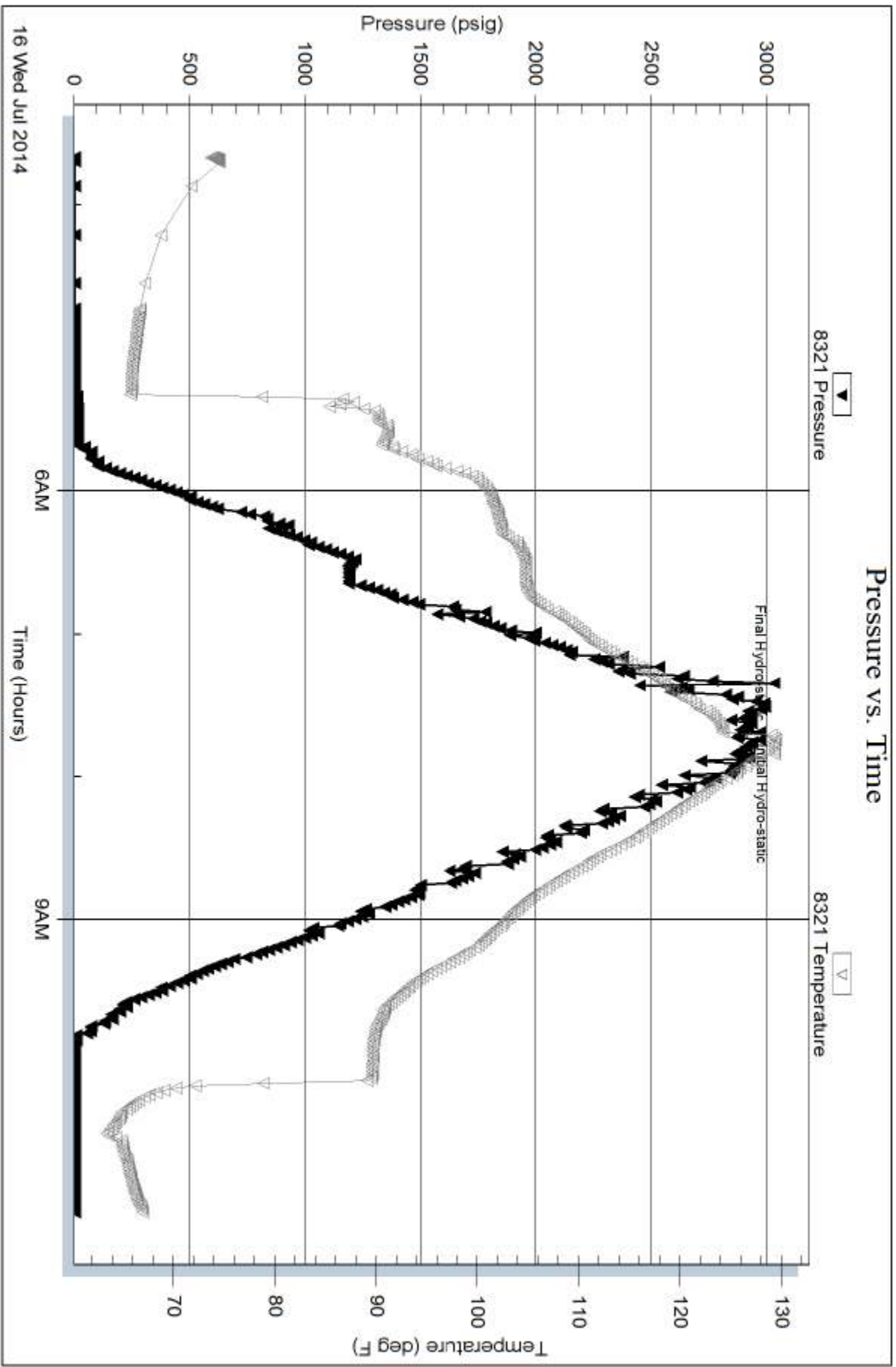
Serial #: 8321

Inside

American Warrior Inc.

Handy #9-29

DST Test Number: 2

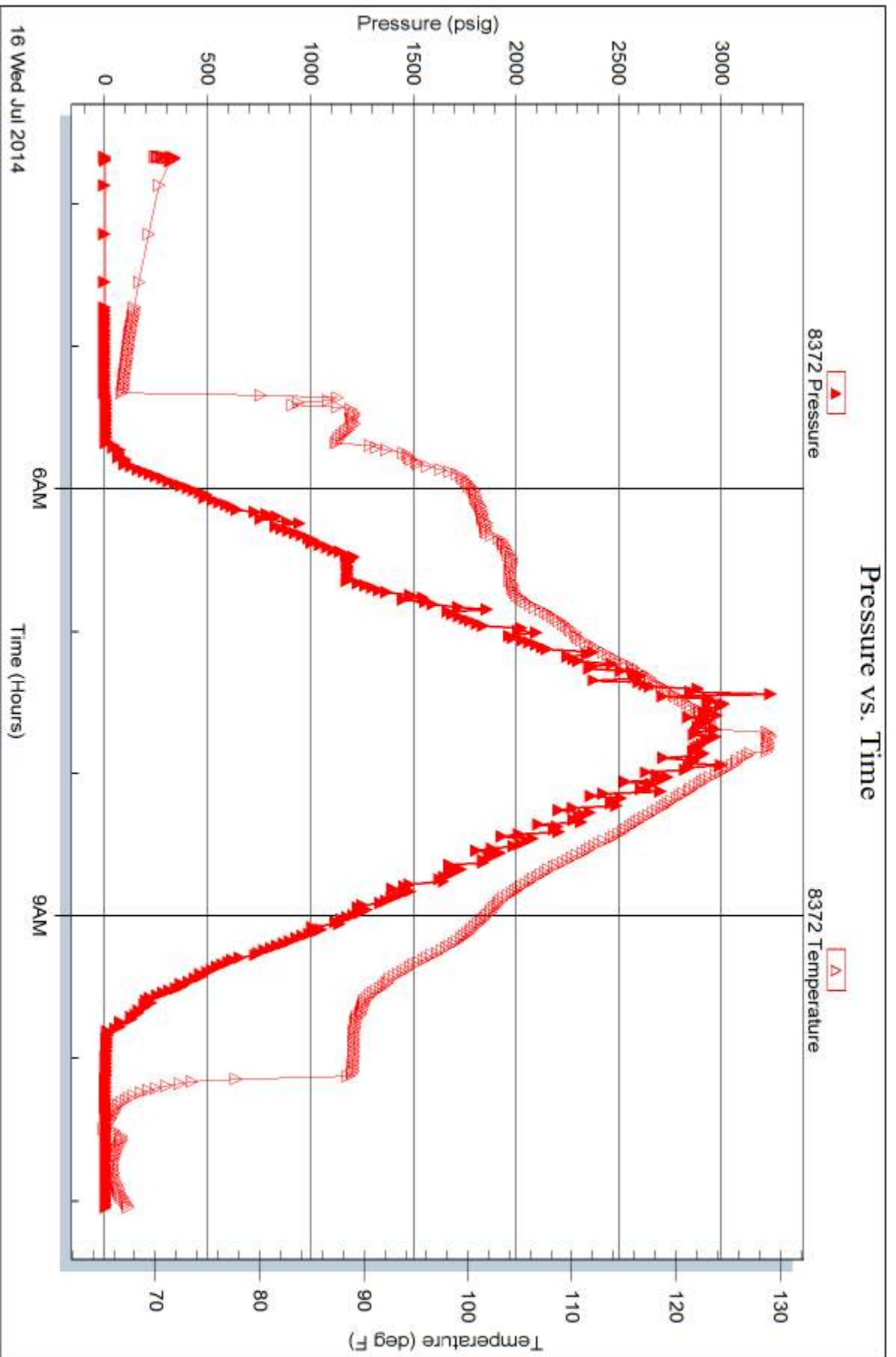


Serial #: 8372

Outside American Warrior Inc.

Handy #9-29

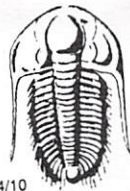
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56551

Printed: 2014.07.17 @ 15:09:41



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56550

Well Name & No. Handy #9-29 Test No. 1 Date 7-13-14
 Company American Warrior Inc. Elevation 2733 KB 2720 GL
 Address 3118 Cummings Rd - 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 5277' - 5363' Zone Tested Marmaton
 Anchor Length 86' Drill Pipe Run 5085' Mud Wt. 9.1
 Top Packer Depth 5273' Drill Collars Run 180' Vis 47
 Bottom Packer Depth 5277' Wt. Pipe Run Ø WL 9.2
 Total Depth 5363' Chlorides 1800 ppm System LCM #3

Blow Description IF, Bob. in 4 1/2 min.
ISI, Bled off in 3 min - No Return
FF, Bob. in 8 min.
FST, Bled off in 3 min. - No Return

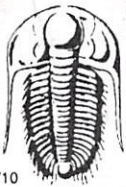
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>mcs w</u>		<u>96</u>	<u>4</u>	
<u>441</u>	<u>mcs w</u>		<u>92</u>	<u>8</u>	
<u>315</u>	<u>mcs w</u>		<u>80</u>	<u>20</u>	
<u>189</u>	<u>mcs w</u>		<u>60</u>	<u>40</u>	
<u>126</u>	<u>mcs w</u>		<u>50</u>	<u>50</u>	

Rec Total 1251 BHT 127 Gravity — API RW .47 @ 79 °F Chlorides 12,000 ppm

(A) Initial Hydrostatic 2619 Test 1350 T-On Location 01:30
 (B) First Initial Flow 117 Jars 250 T-Started 02:27
 (C) First Final Flow 345 Safety Joint 75 T-Open 05:09
 (D) Initial Shut-In 1562 Circ Sub MC T-Pulled 07:39
 (E) Second Initial Flow 363 Hourly Standby _____ T-Out 10:40
 (F) Second Final Flow 607 Mileage 114 R-T 176.70 Comments Waited For Cat From 22:30-1:30
 (G) Final Shut-In 1563 Sampler _____ Got stuck in sand.
 (H) Final Hydrostatic 2584 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 45 Sub Total 0
 Total 1851.70
 MP/DST Disc't _____
 Sub Total 1851.70

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or 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. 56551

4/10

Well Name & No. Handy #9-29 Test No. 2 Date 7-16-14
 Company American Warrior Inc. Elevation 2733 KB 2720 GL
 Address 3118 Cummings Rd Garden City, KS 67846
 Co. Rep / Geo. Wyatt Urban Rig Duke #9
 Location: Sec. 29 Twp. 34-5 Rge. 31-w Co. Seward State KS

Interval Tested 5925'-6050' Zone Tested Chester
 Anchor Length 125' Drill Pipe Run 5749' Mud Wt. 92
 Top Packer Depth 5921 Drill Collars Run 180 Vis 54
 Bottom Packer Depth 5925 Wt. Pipe Run Ø WL 80
 Total Depth 6050 Chlorides 4900 ppm System LCM #2

Blow Description IP:
 IST: Packer Failure
 FF:
 PSI:

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>180</u>	Feet of <u>mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2891 Test 1250 T-On Location ~~03:40~~ 03:40
 (B) First Initial Flow — Jars 250 T-Started 03:40
 (C) First Final Flow — Safety Joint 75 T-Open —
 (D) Initial Shut-In — Circ Sub N/C T-Pulled —
 (E) Second Initial Flow — Hourly Standby 17 hrs. T-Out —
 (F) Second Final Flow — Mileage 176.70 Comments last test on 7-13-14
 (G) Final Shut-In — Sampler — @ 10:40 am. was supposed
 (H) Final Hydrostatic 2883 Straddle — to land 31' Above KB + 1 packer
 Shale Packer — @ 31' Above KB
 Extra Packer —
 Extra Recorder —
 Day Standby 2 days 17h
 Accessibility —
 Sub Total 1751.70

Initial Open —
 Initial Shut-In —
 Final Flow —
 Final Shut-In —

Sub Total 1600
 Total 3351.70
 MP/DST Disc't —

Approved By _____ Our Representative Colt [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.



Musgrove

PETROLEUM CORPORATION
Clayton, Kansas

NOTES

Company: American Warrior, Inc.

Lease: Handy 9-29

Field: Blue Bell

Location: NE-SW-SW-SW

Sec: 29 Twsp: 34S Rge: 31W

County: Seward State: Kansas

KB: 2733' GL: 2720'

API #: 15-175-22220-00-00

Contractor: Duke Drilling Inc. (Rig #9)

Spud: 07/05/2014 Comp: 07/17/2014

RTD: 6500' LTD: 6502'

Mud Up: 4200' Type Mud: Chemical

Samples Saved From: 4300' to RTD
 Drilling Time Kept From: 4300' to RTD
 Samples Examined From: 4300' to RTD
 Geological Supervision from: 4300' to RTD
 Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 1705'

Electronic Surveys: Logged by Pioneer Energy Services: CNL/CDL, MEL, DIL

American Warrior, Inc. well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
American Warrior-Handy 9-29 NE-SW-SW-SW 29-34S-31W					American Warrior-Handy 8-29 SW-NW-NE-SW 29-34S-31W				American Warrior-Handy 7-29 SE-NW-NW-SW 29-34S-31W			
2733 KB					2741 KB		Structural Relationship		2730 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	4416	-1683	4416	-1683	4400	-1659	-24	-24	4391	-1661	-22	-22
Toronto	4436	-1703	4444	-1711	4425	-1684	-19	-27	4419	-1689	-14	-22
Lansing	4561	-1828	4569	-1836	4556	-1815	-13	-21	4556	-1826	-2	-10
Marmaton	5253	-2520	5258	-2525	5245	-2504	-16	-21	5239	-2509	-11	-16
Morrow	5808	-3075	5797	-3064	5781	-3040	-35	-24	5774	-3044	-31	-20
Chester	5958	-3225	5955	-3222	5917	-3176	-49	-46	5918	-3188	-37	-34
Ste. Gen	6263	-3530	6264	-3531	6222	-3481	-49	-50	6213	-3483	-47	-48
St. Louis	6382	-3649	6380	-3647	6352	-3611	-38	-36	6335	-3605	-44	-42
RTD	6500	-3767	6500	-3767	6500	-3759	-8	-8	6500	-3770	3	3
LTD	6502	-3769	6502	-3769	6501	-3760	-9	-9	6503	-3773	4	4



DRILL STEM TEST REPORT



TRILOBITE TESTING, INC

American Warrior Inc.
3118 Cummings Rd.
Garden City, KS 67846
ATTN: Wyatt Urban

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

Handy #9-29

Job Ticket: 56550 **DST#:1**
Test Start: 2014.07.13 @ 02:27:00

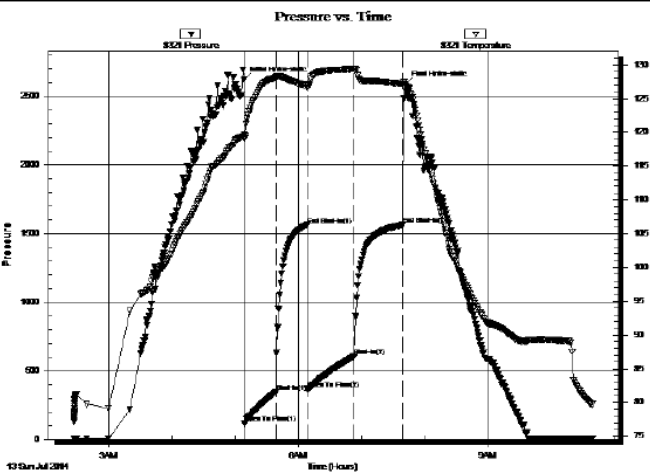
GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:09:00
Time Test Ended: 10:40:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Cornelio Landa III
Unit No: 48
Interval: **5277.00 ft (KB) To 5363.00 ft (KB) (TVD)**
Total Depth: 5363.00 ft (KB) (TVD)
Reference Elevations: 2733.00 ft (KB)
2720.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 13.00 ft

Serial #: 8321

Press@RunDepth: 607.23 psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.13 End Date: 2014.07.13 Last Calib.: 2014.07.13
Start Time: 02:27:01 End Time: 10:40:00 Time On Btm: 2014.07.13 @ 05:08:30
Time Off Btm: 2014.07.13 @ 07:41:30

TEST COMMENT: F: B.o.b. in 4 1/2 min.
IS: Bled off in 3 min.-No return
FF: B.o.b. in 8 min.
FS: Bled off in 3 min.-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2618.68	119.59	Initial Hydro-static
1	116.56	119.04	Open To Flow (1)
31	345.37	128.16	Shut-h(1)
60	1561.81	126.92	End Shut-h(1)
61	363.21	126.59	Open To Flow (2)
105	607.23	129.37	Shut-h(2)
151	1563.41	127.21	End Shut-h(2)
153	2583.94	127.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mcsw 4m 96sw	0.89
441.00	Mcsw 8m 92sw	6.19
315.00	Mcsw 20m 80sw	4.42
189.00	Mcsw 40m 60sw	2.65
126.00	Mcsw 50m 50sw	1.77

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc.
3118 Cummings Rd.
Garden City, KS 67846
ATTN: Wyatt Urban

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

Handy #9-29

Job Ticket: 56551 **DST#:2**
Test Start: 2014.07.16 @ 03:40:00

GENERAL INFORMATION:

Formation: **Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 11:03:00
Test Type: Conventional Bottom Hole (Reset)
Tester: Cornelio Landa III
Unit No: 48

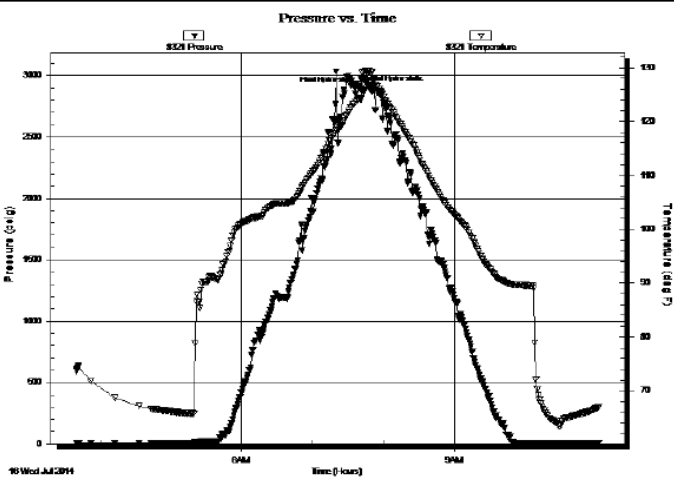
Interval: 5925.00 ft (KB) To 6050.00 ft (KB) (TVD)
 Total Depth: 6050.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2733.00 ft (KB)
 2720.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8321

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.16 End Date: 2014.07.16 Last Calib.: 2014.07.16
 Start Time: 03:40:01 End Time: 11:03:00 Time On Btm: 2014.07.16 @ 07:40:30
 Time Off Btm: 2014.07.16 @ 07:42:30

TEST COMMENT: PACKER FAILURE



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2890.57	124.21	Initial Hydro-static
2	2882.59	128.97	Final Hydro-static

Length (ft)	Description	Volume (bbl)
180.00	Mud 100m	0.89

* Recovery from multiple tests

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

ROCK TYPES

- sdymst
- Lmst fw7>
- Carbon Sh
- Lmst fw<7
- shale, gry
- Ss

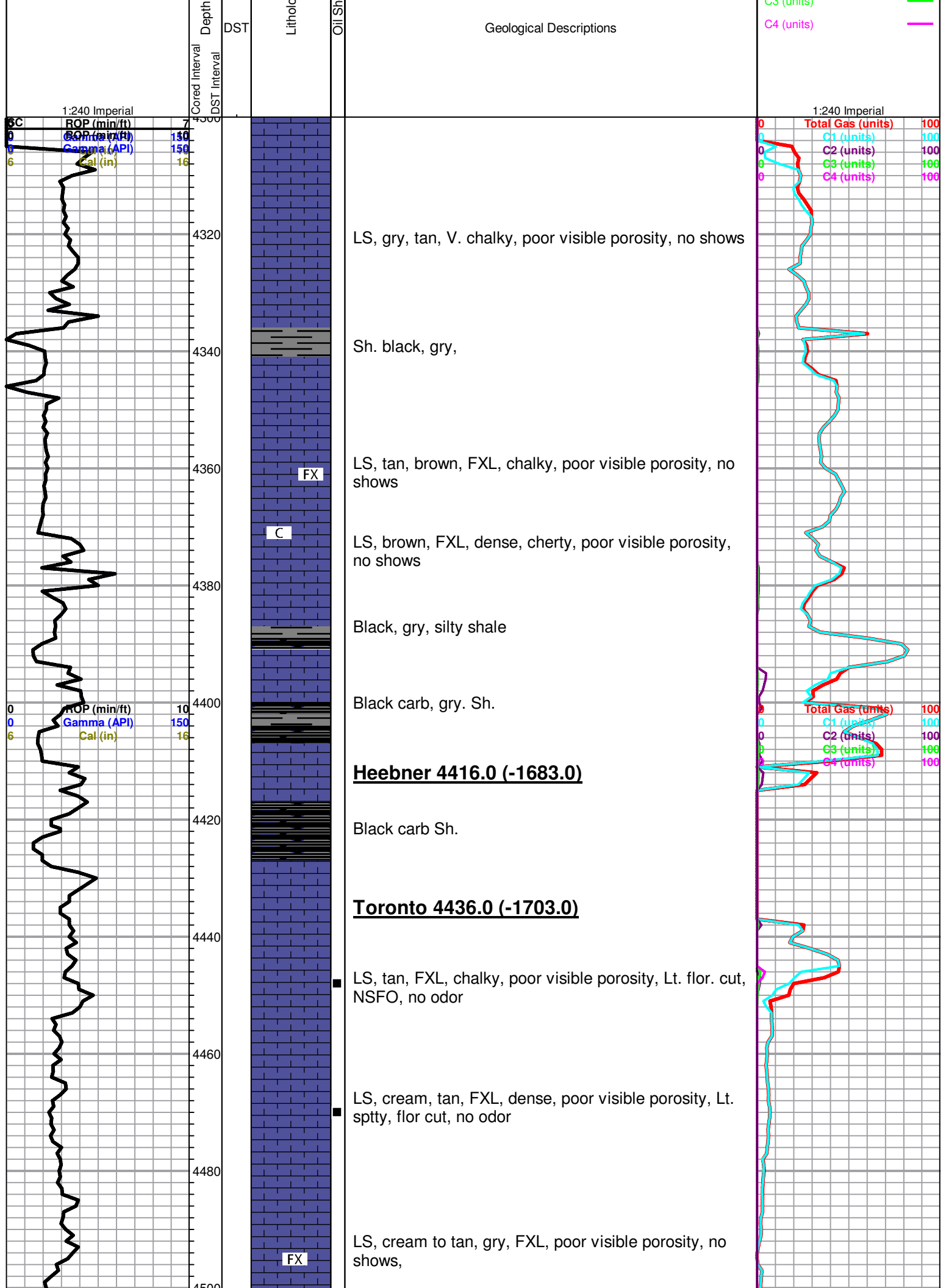
ACCESSORIES

- FOSSIL**
F Fossils < 20%
O Oolite
Oomoldic
- STRINGER**
Sandstone
- TEXTURE**
C Chalky
FX Finexln

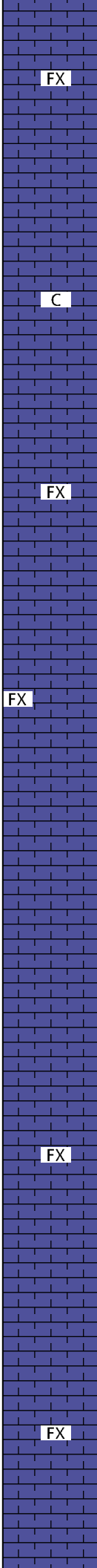
OTHER SYMBOLS

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

Curve Track #1	Intervals	ogy	OW	TG, C1 - C5
ROP (min/ft)	—			Total Gas (units)
Gamma (API)	—			C1 (units)
Cal (in)	---			C2 (units)
				C3 (units)



4500
4520
4540
4560
4580
4600
4620
4640
4660
4680
4700
4720



LS, gry, FXL, cherty, few fos, no shows

LS, A/A

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

Lansing 4566.0 (-1831.0)

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

LS, cream, tan, FXL, dense, sl. chalky in parts, trc. white chert, no shows

LS, tan, FXL, foss, poor visible porosity, no shows, no odor

LS, brown, tan, FXL, foss, slightly chalky, poor visible porosity, no shows

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

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

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

4720
4740
4760
4780
4800
4820
4840
4860
4880
4900
4920
4940

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

0
0
6

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

0
0
6
6

FX

FX

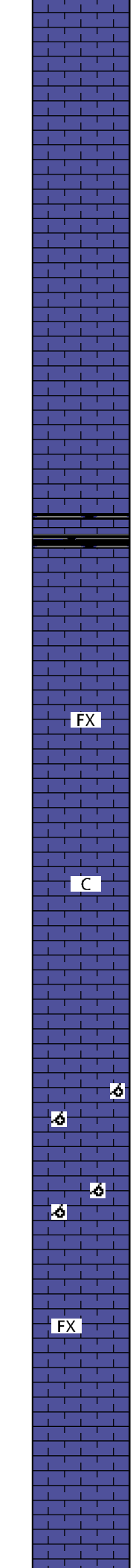
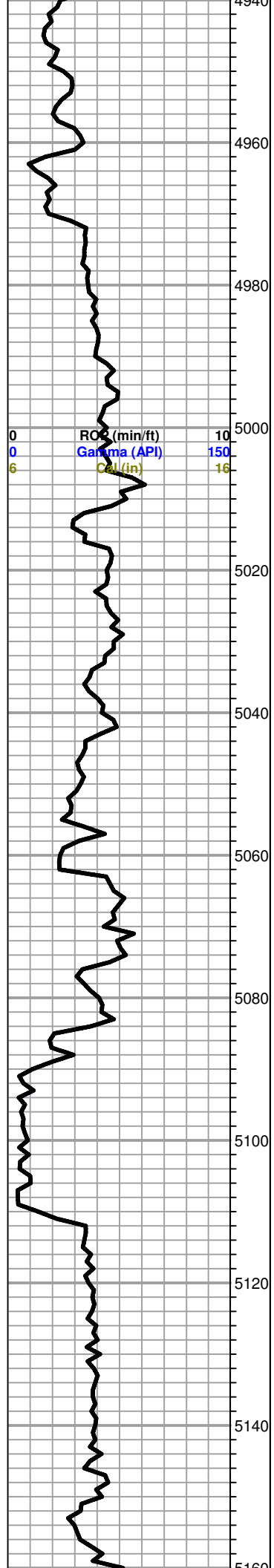
LS, gray tan, FXL, chalky, poor visible porosity, no shows

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

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

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

LS, cream, tan, FX, dense, no shows,



LS, gry, white, FXL, few ool, poorly developed, no shows, no odor

LS, gry, FXL, dense, cherty, poor visible porosity, no shows

LS, cream to tan, FXL, few foss, poor scattered porosity, slug, Black carb sh.

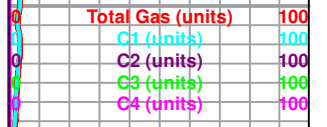
LS, cream, gry, FXL, dense, cherty in pts, poor visible porosity, no shows

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

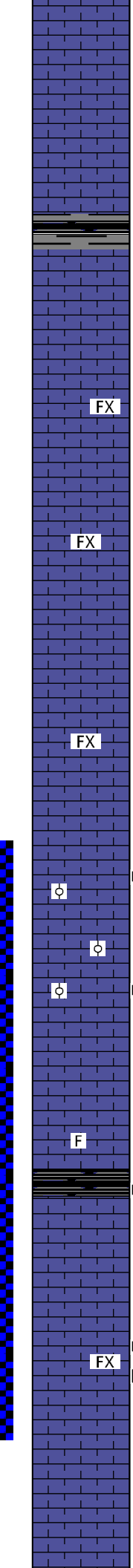
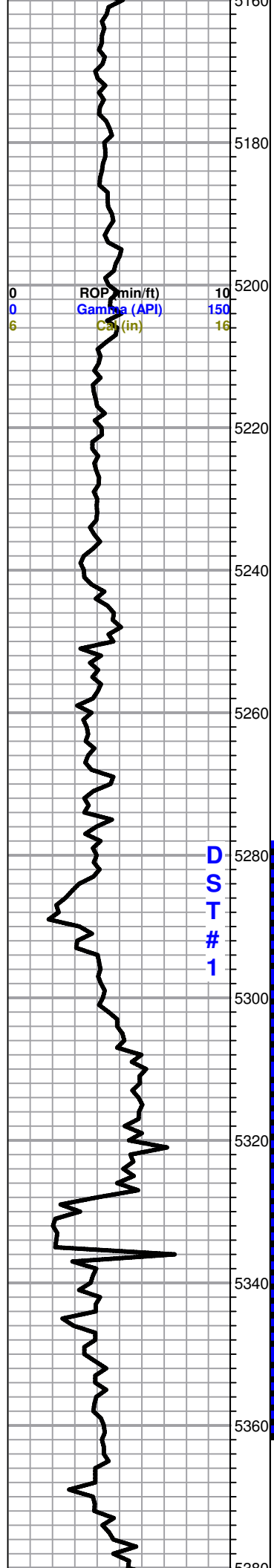
LS, white, ool, good vuggy oom porosity, no shows

LS, gry, white, FXL, dense, poor visible porosity, no shows

LS, A/A



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



Sh. gry, black, maroon,

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

LS, gry, FXL, dense, no shows

Marmaton 5250.0 (-2525.0)

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

LS, tan, brown, FXL, ool, poorly developed, poor scattered porosity, Lt. Spty flor. NSFO, no odor.

LS, tan, brown, FXL, ool, poorly developed, no visible porosity, Lt. spty flor cut

LS, cream, white, FXL, few foss, Lt. flor. cut, Slug black carb. Sh.

LS, cream, tan, FXL, chalky, Lt, spty, flor. cut, trc. black stain, no odor

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

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

DST # 1 5277'-2363'

30-30-45-45

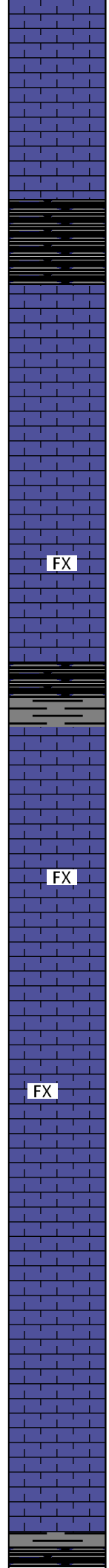
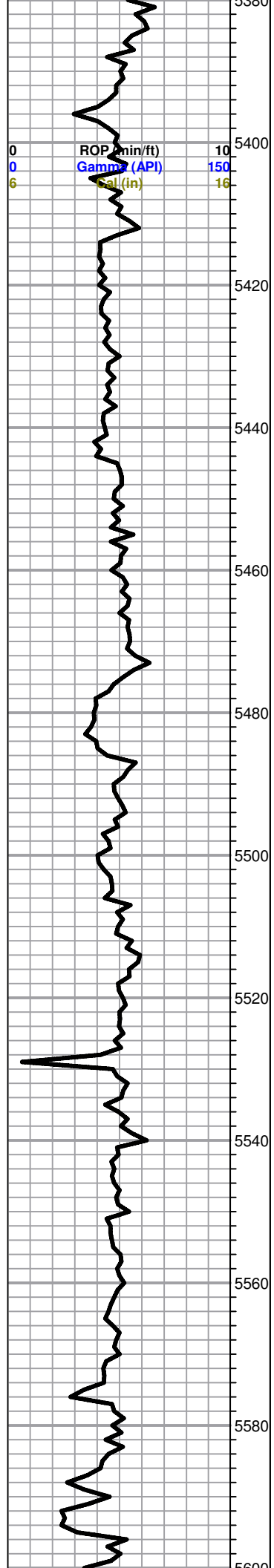
Blow; BOB 4 Min.

Recovery;

1251' MCW

Pressures;

- ISIP 1562 psi
- FSIP 1563 psi
- IFP 117-345 psi
- FFP 363-607 psi
- HSH 2619-2584 psi



LS, A/A

Black carb Sh.

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

FX

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

Cherokee 5465.0 (-2732.0)

Black carb. Sh.

Sh. black gry, maroon, silty

FX

LS, tan, brown, mottled, FXL, dense, poor visible porosity, no shows, few trc. LS, white, ool, poorly developed

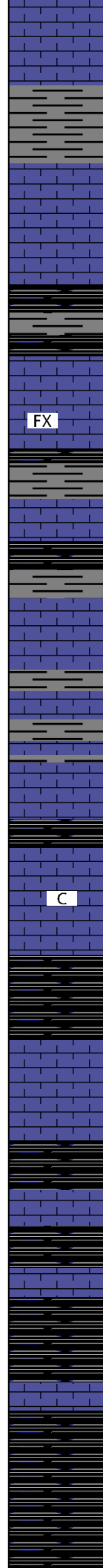
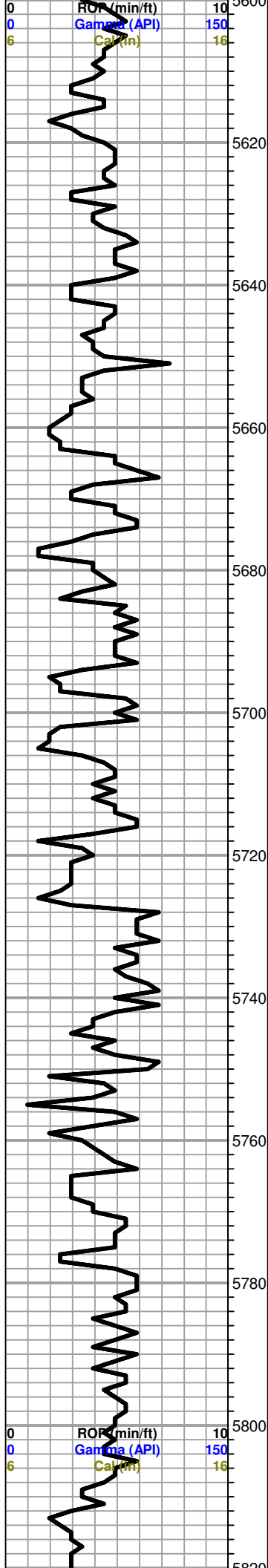
FX

LS, gry, FXL, dense, poor vis. porosity, no shows

LS, gry, FXL, cherty, poor vis. porosity, no shows

Sh. black gry, silty

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



LS, white, FXL, chalky, poor scattered porosity, trc. gry, sh. no shows

5620

Black carb Sh.

5640

FX

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

5660

5680

Sh. black, gry, silty

5700

LS, cream tan, chalky, poor scattered porosity, no shows

5720

C

5740

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

5760

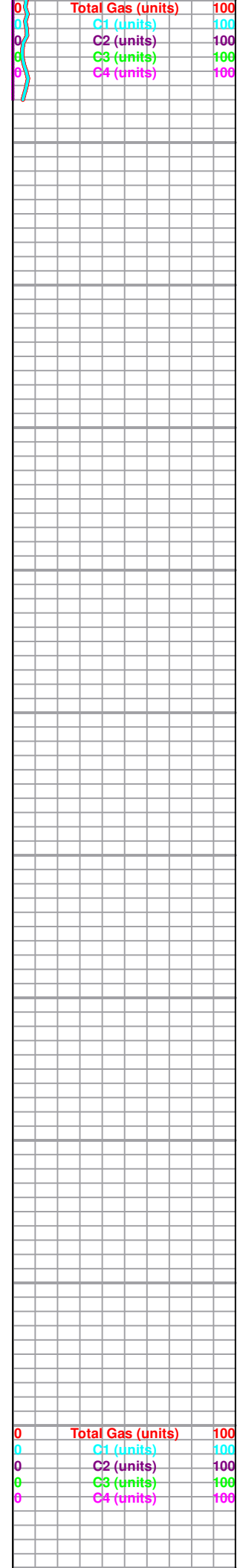
Black carb Sh.

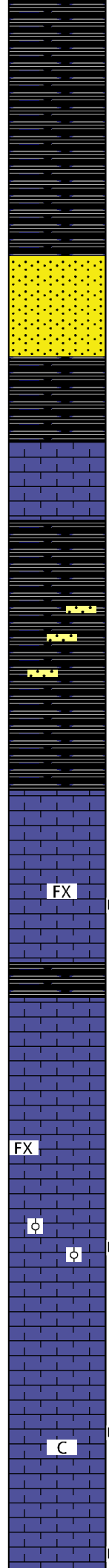
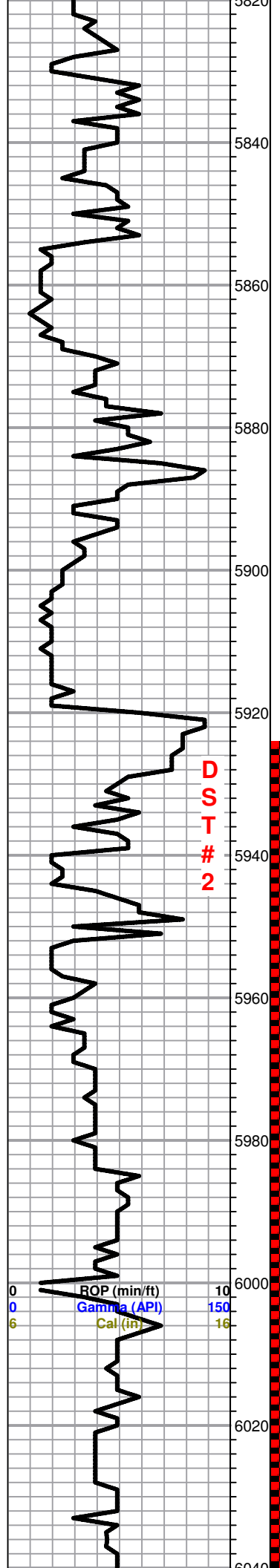
5780

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

Morrow 5808.0 (-3075.0)

Black carb, sh. few maroon, silty





Sh. black carb, gry, trc. Sd. tan, F. grain, well sorted barren no shows

Morrow Sd. 5854.0 (-3121.0)

Sd, tan, F. grain, well sorted, no shows, no flor. no odor

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

Sh. black carb, trc. Sd. tan, F. grain, well sorted, no shows, no odor

LS, tan, brown, FXL, cherty, dense, no shows, Trc. black carb. shale, trc. pyrite

DST # 2 packer failure

LS, tan, brown, FXL, dense, poor visible porosity, trc. Sd. white, M. grain, poorly sorted, Lt. flor spty shows, NSFO, no odor

Sh. black carb

Chester 5958.0 (-3225.0)

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

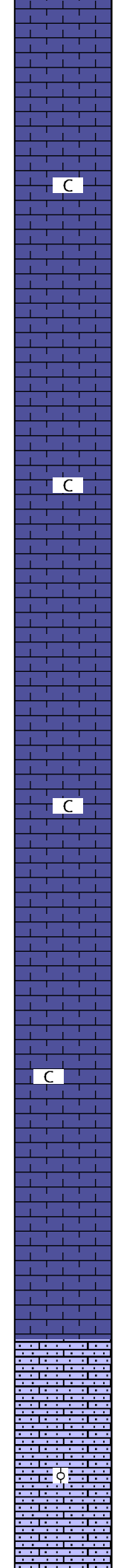
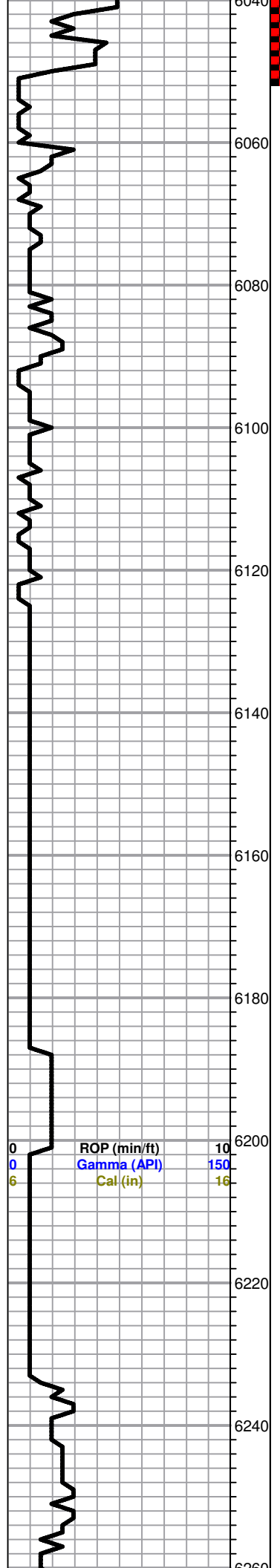
LS, tan, FXL, ool, poor scattered porosity, Lt. flor. cut, NSFO, no odor

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

LS. tan, brown, FXL, few ool, poor scattered porosity, chalky, Lt. Flor.cut, no odor

LS, tan, FXL, few ool, poorly developed, chalky, Lt. Spty flor. cut, NSEO, no odor

Continue Drilling with



Spity hor. cut, NSP O, no odor

6060 LS, cream, white, FXL, chalky, no shows

6080

6100 LS, white, FXL, chalky poor visible porosity, few foss, no shows

6120

6140

6160 LS, cream, white, chalky, poor visible porosity, no shows, trc. opaque chert no shows

6180

6200 LS, white, gry, FXL, chalky, poor visible porosity, trc. aqua green shale, no shows

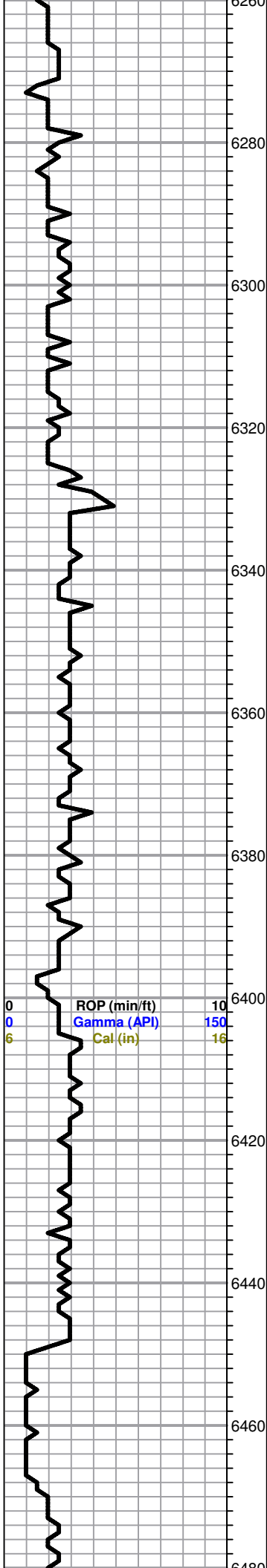
6220 LS, tan, mirco ool, fraible no shows, Trc. LS, white, cream, gry, chalky, FXL, no shows

6240

6260 LS, tan, sub micro ool, no shows, no flor. cut

PDC

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



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

Ste. Gen 6263.0 (-3530.0)

LS, tan, brown, sub micro ool, fraible no shows

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

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

LS, tan, cream, FXL, chalky, poor visible porosity, few
 LS, tan, sub micro ool, friable, no shows

St. Louis 6382.0 (-3649.0)

LS, cream, white, chalky, few ool, poorly developed,
 no shows

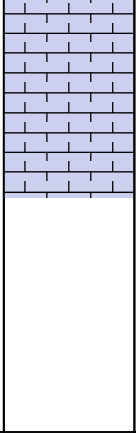
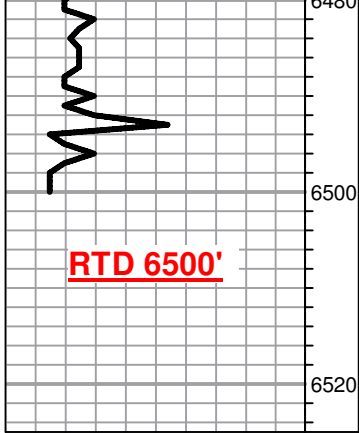
LS, cream, white, ool, chalky, poor scattered porosity,
 no shows, no flor.

LS, cream, white, ool, poorly developed, chalky, poor
 scattered porosity, no shows

LS, cream white, ool, poor scattered porosity, chalky,
 no shows no flor. cut

LS, cream white, ool, chalky, poor scattered porosity,
 no shows

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



LS, crm, white, chalky, few ool, poor scattered porosity, no shows.

