



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1235158  
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: \_\_\_\_\_

1235158

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> _____
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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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# ALLIED OIL & GAS SERVICES, LLC

063993

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend KS

DATE <u>10-04-14</u>	SEC. <u>18</u>	TWP. <u>18</u>	RANGE <u>10</u>	CALLED OUT	ON LOCATION <u>11:30 pm</u>	JOB START <u>11:50am</u>	JOB FINISH <u>2:15pm</u>
LEASE <u>Michael</u>		WELL # <u>1-10</u>		LOCATION <u>EAST Hwy 4 To 4th Rd 1/2 S</u>		COUNTY <u>Rice</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>East into</u>			

CONTRACTOR Duke &  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D. 413.38  
CASING SIZE 8 3/4 DEPTH 413.38  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15 feet  
PERFS.  
DISPLACEMENT 24.85 Fresh H2O  
EQUIPMENT

OWNER  
CEMENT  
AMOUNT ORDERED 275 sz Class A 3% o.c.  
2% Gel

PUMP TRUCK CEMENTER Kevin Eddy  
# 366 HELPER Ben Newell  
BULK TRUCK  
# 871 / 112 DRIVER DAN CASPER  
BULK TRUCK  
# DRIVER

COMMON	<u>275</u>	@ <u>17.90</u>	<u>4,922.50</u>
POZMIX		@	
GEL	<u>517</u>	@ <u>.50</u>	<u>258.50</u>
CHLORIDE	<u>775</u>	@ <u>1.10</u>	<u>852.50</u>
ASC		@	
<u>Material Total</u>			<u>6,033.50</u>
<u>Disc 20%</u>			<u>1,206.70</u>
<u>Servic</u>			
HANDLING	<u>297.37</u>	@ <u>2.48</u>	<u>737.48</u>
MILEAGE	<u>13.57 x 294</u>	@ <u>2.75</u>	<u>1,082.31</u>

**REMARKS:**

Arrived on location, held safety meetings  
Rigged up - Rig Ran 413.38 ft as 8 3/4 casing  
Hooked to head and broke circ w/ rig mud  
Pump 5 BBIs fresh H2O, mixed 275 sz of  
Class A 3% o.c. 2% Gel - Displaced 24.85  
BBIs of fresh H2O. Cement did circ  
shut in, Rig down

**SERVICE**

DEPTH OF JOB			
PUMP TRUCK CHARGE	<u>1512.35</u>		
EXTRA FOOTAGE	@		
MILEAGE <u>Hum</u>	<u>29</u>	@ <u>7.70</u>	<u>223.30</u>
MANIFOLD	@		
	<u>Hum 29</u>	@ <u>4.40</u>	<u>127.60</u>
	@		

CHARGE TO: American Warrior  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3,682.84  
Disc 20% 736.57

**PLUG & FLOAT EQUIPMENT**

<u>1 Rubber Plug</u>	@ <u>131.00</u>	<u>131.00</u>
	@	
	@	
	@	
	@	

TOTAL 131.00  
Disc 20% 26.20

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 9,847.34  
DISCOUNT 20% 1,969.47 60/20/20  
IF PAID IN 30 DAYS  
7,877.87

PRINTED NAME Steve H Stephens  
SIGNATURE [Signature]



CHARGE TO: American Warrior  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 27877

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Ness City KS</u>	WELL/PROJECT NO. <u>1-10</u>	LEASE <u>Michael</u>	COUNTY/PARISH <u>Rice</u>	STATE <u>KS</u>	CITY <u>Bushton</u>	DATE <u>9 Oct 14</u>	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3.	WELL TYPE <u>o.i</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>cement long string</u>	WELL PERMIT NO.	WELL LOCATION <u>10-18-10</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	70		mi		6.00	420.00
578		1			Pump Charge	1		pg		1500.00	1500.00
402		1			Centralizer	5 1/2		in	8.00	70.00	560.00
403		1			Cement Basket	5 1/2		in	1.00	300.00	300.00
406		1			Latch down ply 3/8 baffle	5 1/2		in	1.00	275.00	275.00
407		1			Insert float shoe w/ AUTO FILL	5 1/2		in	1.00	375.00	375.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

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

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

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

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

PAGE TOTAL 1	3430.00
2	5872.88
Subtotal	9302.88
Rice TAX 7.15%	456.99
TOTAL	9759.87

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JOB LOG

SWIFT Services, Inc.

DATE 9 OCT 14 PAGE NO.

CUSTOMER American Warrior WELL NO. 1-10 LEASE Michael JOB TYPE cement long string TICKET NO. 27877

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sks EA-2 cement w/ 1/4" Flocalc TD=3400 5 1/2" x 15.5" casing Centralizers 1, 2, 4, 5, 6, 8, 10, 13 Basket #3 8 lts - 3400' total pipe
	0330							on loc TRK 114
	0350							start 5 1/2" x 15.5" casing in well
	0635							Drop ball - circulate
	0605	4	12			200		Pump 12 bbl mid flush
		4	20			200		Pump 20 bbl KCL flush
			7					Plug RH - MH <del>30sk</del> - <del>20sk</del>
	0616		35					mix EA-2 cement <del>125sk</del> @ 15.3ppg
								Drop latch down plug wash out pump & line
	0640	6				200		Displace plug
		6	78			600		
	0700	6	80			1500		Latch plug
								Release pressure to truck - dried up
	0705							wash truck
								Rack up
	0735							job complete
								Thank Flint, Blaine, & crew

11/3/2014

to writing

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## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

3118 Cummings Rd  
PO Box 399  
Garden City KS 67846

ATTN: Kurt Talbott

### **Michael #1-10**

#### **10-18s-10w Rice KS**

Start Date: 2014.10.08 @ 01:07:30

End Date: 2014.10.08 @ 08:21:00

Job Ticket #: 60522                      DST #: 1

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

Printed: 2014.10.16 @ 11:05:21



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc

**10-18s-10w Rice KS**

3118 Cummings Rd  
PO Box 399  
Garden City KS 67846  
ATTN: Kurt Talbott

**Michael #1-10**

Job Ticket: 60522

**DST#: 1**

Test Start: 2014.10.08 @ 01:07:30

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:50:40

Time Test Ended: 08:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

**Interval: 3207.00 ft (KB) To 3280.00 ft (KB) (TVD)**

Reference Elevations: 1787.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1779.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 625.25 psig @ 3212.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.08 End Date: 2014.10.08

Last Calib.: 2014.10.08

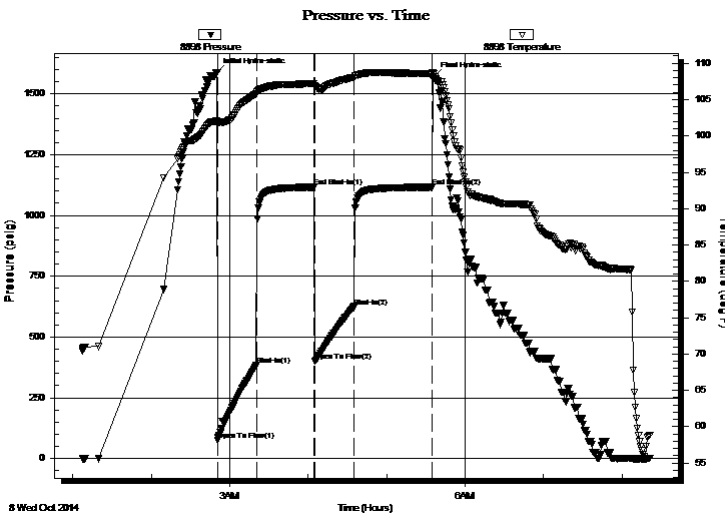
Start Time: 01:07:31 End Time: 08:21:00

Time On Btm: 2014.10.08 @ 02:50:10

Time Off Btm: 2014.10.08 @ 05:36:00

**TEST COMMENT:** 30-B.O.B. in 1 min  
45-Dead no blow back  
30-B.O.B. in 2 mins  
60-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1588.32	102.05	Initial Hydro-static
1	74.75	101.77	Open To Flow (1)
31	383.23	105.78	Shut-In(1)
75	1116.41	107.19	End Shut-In(1)
75	399.99	106.96	Open To Flow (2)
105	625.25	108.08	Shut-In(2)
165	1116.51	108.54	End Shut-In(2)
166	1570.88	108.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1223.00	GO 35%G 65%O	17.16
186.00	SMCGO 10%M 30%G 60%O	2.61
186.00	MCGO 30%M 20%G 50%O	2.61

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc

**10-18s-10w Rice KS**

3118 Cummings Rd  
PO Box 399  
Garden City KS 67846  
ATTN: Kurt Talbott

**Michael #1-10**

Job Ticket: 60522

**DST#: 1**

Test Start: 2014.10.08 @ 01:07:30

## Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 44.79 bbl</u>	Tool Chased	15.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3207.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	93.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3192.00	
Hydraulic tool	5.00			3197.00	
Packer	5.00			3202.00	20.00 Bottom Of Top Packer
Packer	5.00			3207.00	
Stubb	1.00			3208.00	
Perforations	4.00			3212.00	
Recorder	0.00	8897	Inside	3212.00	
Recorder	0.00	8898	Outside	3212.00	
Change Over Sub	1.00			3213.00	
Drill Pipe	63.00			3276.00	
Change Over Sub	1.00			3277.00	
Bullnose	3.00			3280.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**10-18s-10w Rice KS**

3118 Cummings Rd  
PO Box 399  
Garden City KS 67846  
ATTN: Kurt Talbott

**Michael #1-10**

Job Ticket: 60522

**DST#: 1**

Test Start: 2014.10.08 @ 01:07:30

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 28 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1223.00	GO 35%G 65%O	17.155
186.00	SMCGO 10%M 30%G 60%O	2.609
186.00	MCGO 30%M 20%G 50%O	2.609

Total Length: 1595.00 ft      Total Volume: 22.373 bbl

Num Fluid Samples: 0

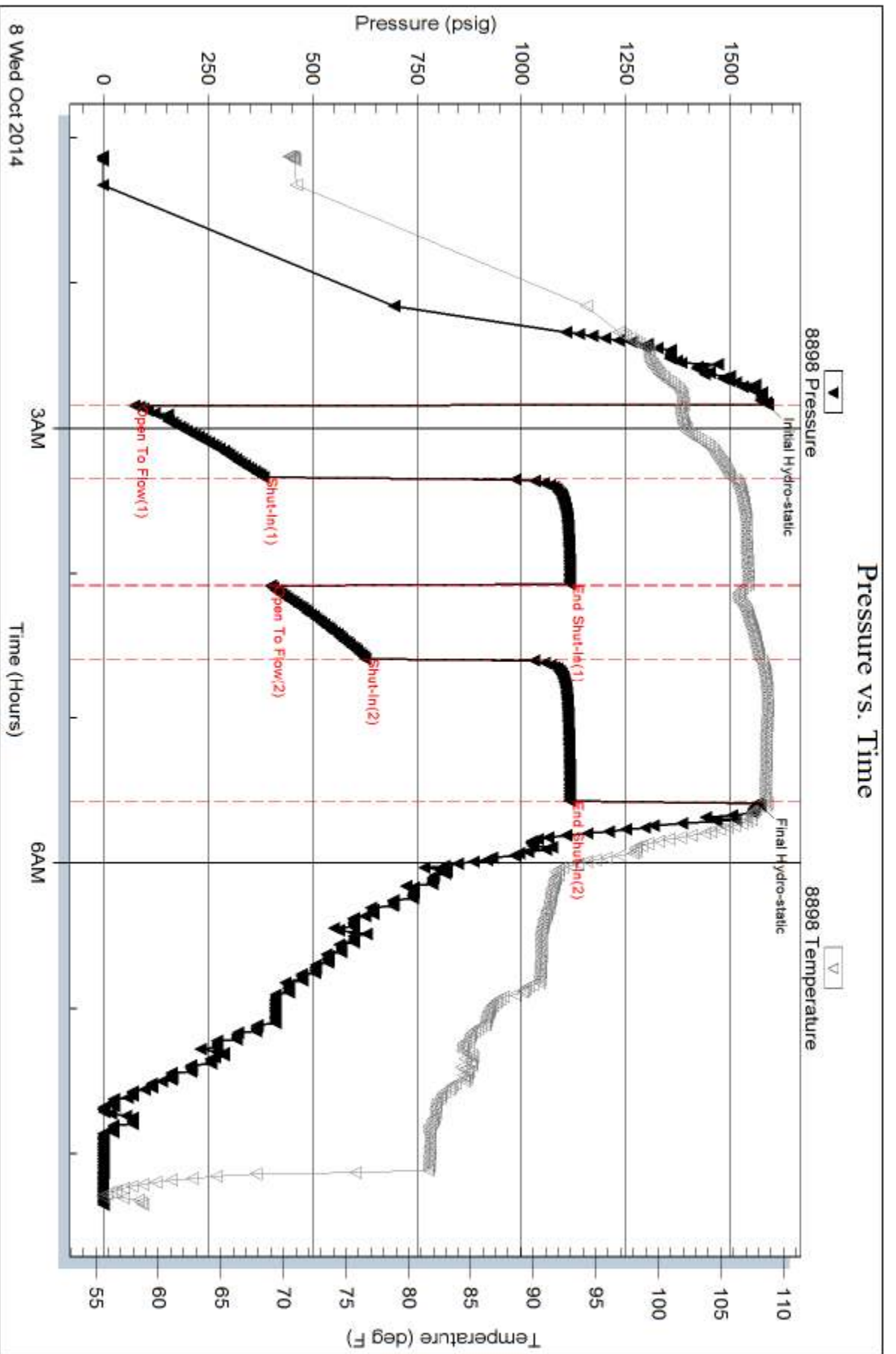
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





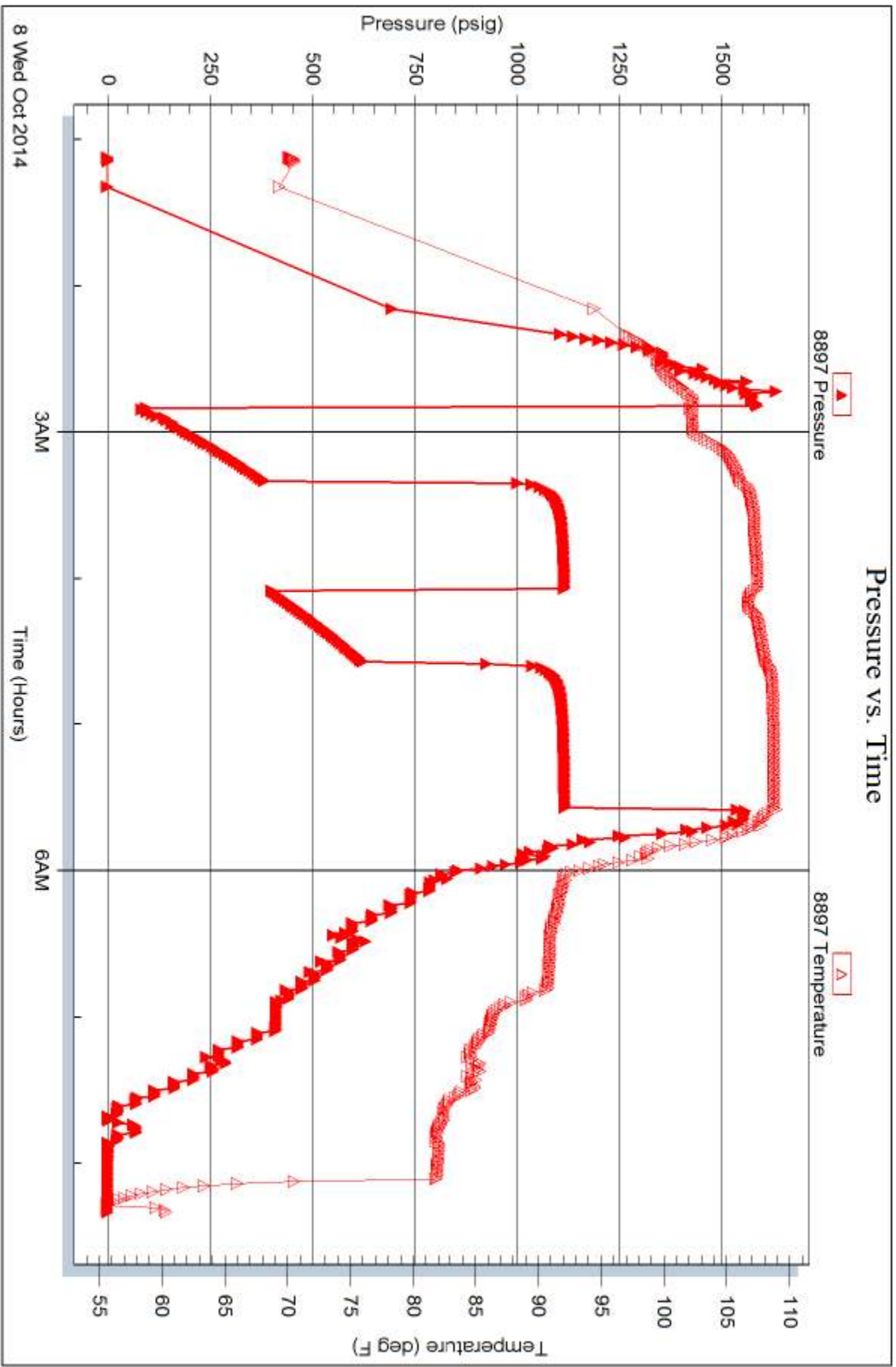
Serial #: 8897

Inside

American Warrior Inc

Michael #1-10

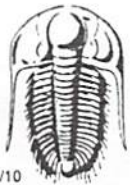
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60522

Printed: 2014.10.16 @ 11:05:23



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60522

4/10

Well Name & No. Michael # 1-10 Test No. 1 Date 10-7-14  
 Company American Warrior Inc Elevation 1787 KB 1779 GL  
 Address 3118 Cummins Rd. PO Box 399 Garden City MS 67846  
 Co. Rep / Geo. Kurt Rig Dulle  
 Location: Sec. 10 Twp. 18S Rge. 10W Co. Rice State KS

Interval Tested 3207 3280 Zone Tested Arbuckle  
 Anchor Length 73 Drill Pipe Run 3193 Mud Wt. 9.3  
 Top Packer Depth 3202 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3207 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3280 Chlorides 3500 ppm System LCM 0#

Blow Description B.O.B. TV 1 min  
Dead no blow back  
B.O.B. TV 2 mins  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1223</u>	<u>60</u>	<u>35</u>	<u>65</u>		
<u>186</u>	<u>SMC60</u>	<u>30</u>	<u>50</u>		<u>10</u>
<u>186</u>	<u>SMC60</u>	<u>20</u>	<u>50</u>		<u>30</u>

Rec Total 1595 BHT 108 Gravity 28 API RW @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1588  Test 1150 T-On Location 22:50  
 (B) First Initial Flow 75  Jars \_\_\_\_\_ T-Started 01:07  
 (C) First Final Flow 383  Safety Joint \_\_\_\_\_ T-Open 02:49  
 (D) Initial Shut-In 1116  Circ Sub \_\_\_\_\_ T-Pulled 05:34  
 (E) Second Initial Flow 400  Hourly Standby \_\_\_\_\_ T-Out 08:21  
 (F) Second Final Flow 625  Mileage 146.17 54rt  
 (G) Final Shut-In 1117  Sampler \_\_\_\_\_ 83.70  
 (H) Final Hydrostatic 1571  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1233.70  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1233.70

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.



# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## Geologist's Report

Company: American Warrior, Inc  
 Lease: Michael #1-10  
 Field: NA  
 Surface Location: 1672' FSL & 2292' FWL  
 Sec: 10 Twp: 18S Rge: 10W  
 County: Rice State: Kansas  
 GL: 1779' KB: 1787'

Contractor: Duke Drilling Co., Rig #8  
 Spud: 10/3/14 Comp: 10/8/14  
 RTD: 3400' LTD: 3400'  
 Mud Up: +/- 2800' Mud Type: Chemical Displaced

Drilling Time Kept From: 2700' to RTD  
 Samples Saved From: 2700' to RTD  
 Samples Examined: 2700' to RTD  
 Geological Supervision: 2850' to RTD  
 Geologist on Well: Kurt Talbott

Surface Casing: 8 5/8"@ 413'  
 Production Casing: 5 1/2" @

Wireline Logs: By Pioneer: CNL/CDL, DIL, MEL

## Well Comparison

## Spot Location

## ROCK TYPES

 Cht vari	 Lmst fw<7	 shale, gry	 shale, red	 Ss
 Dolprim	 shale, grn	 Carbon Sh	 Shcol	

## OTHER SYMBOLS

### EVENTS

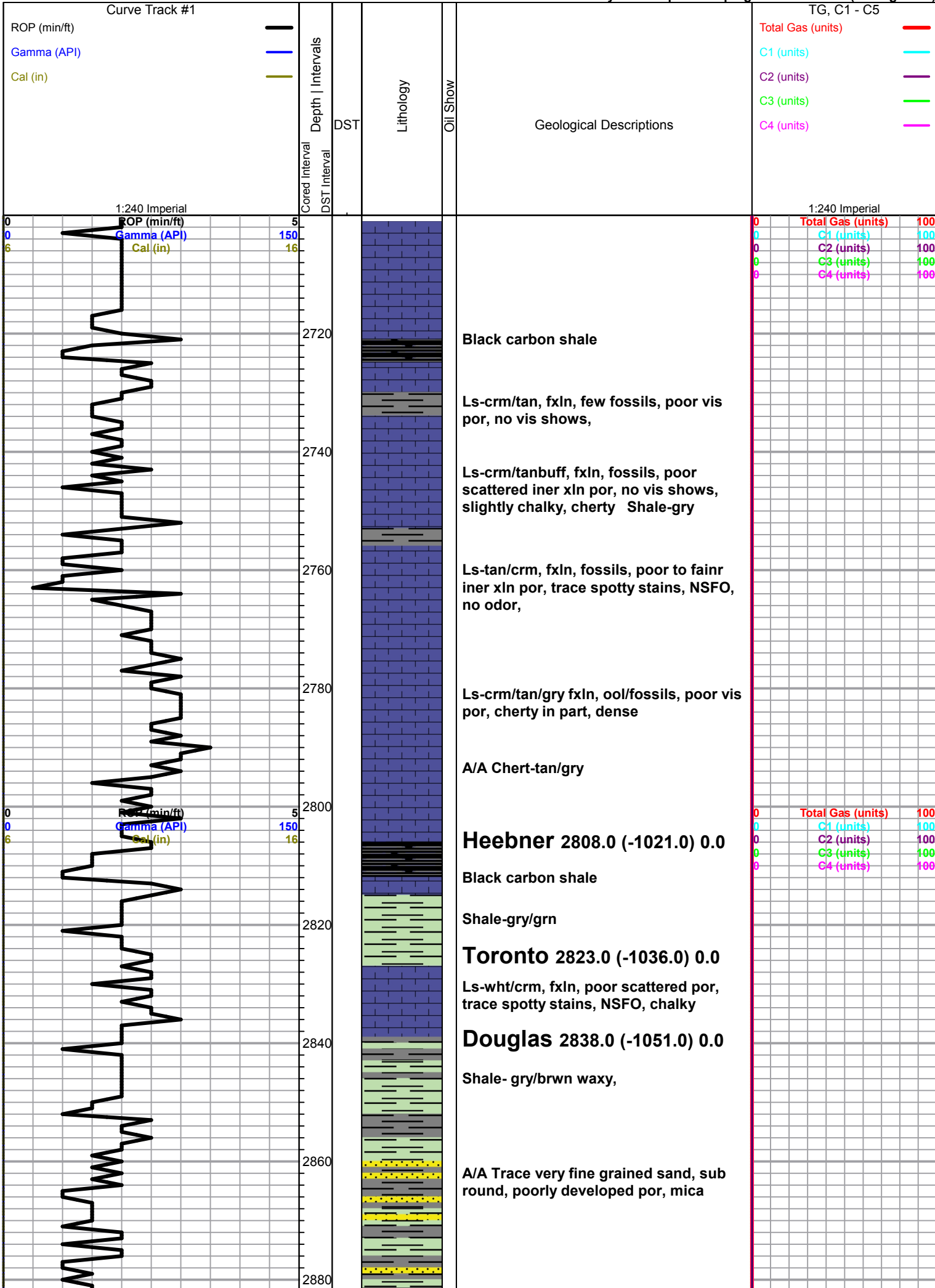
- ⌋ Casing Shoe
- ▽ RTF
- ▶ Sidewall
- ▲ Left Casing Shoe
- ▼ Right Casing Shoe

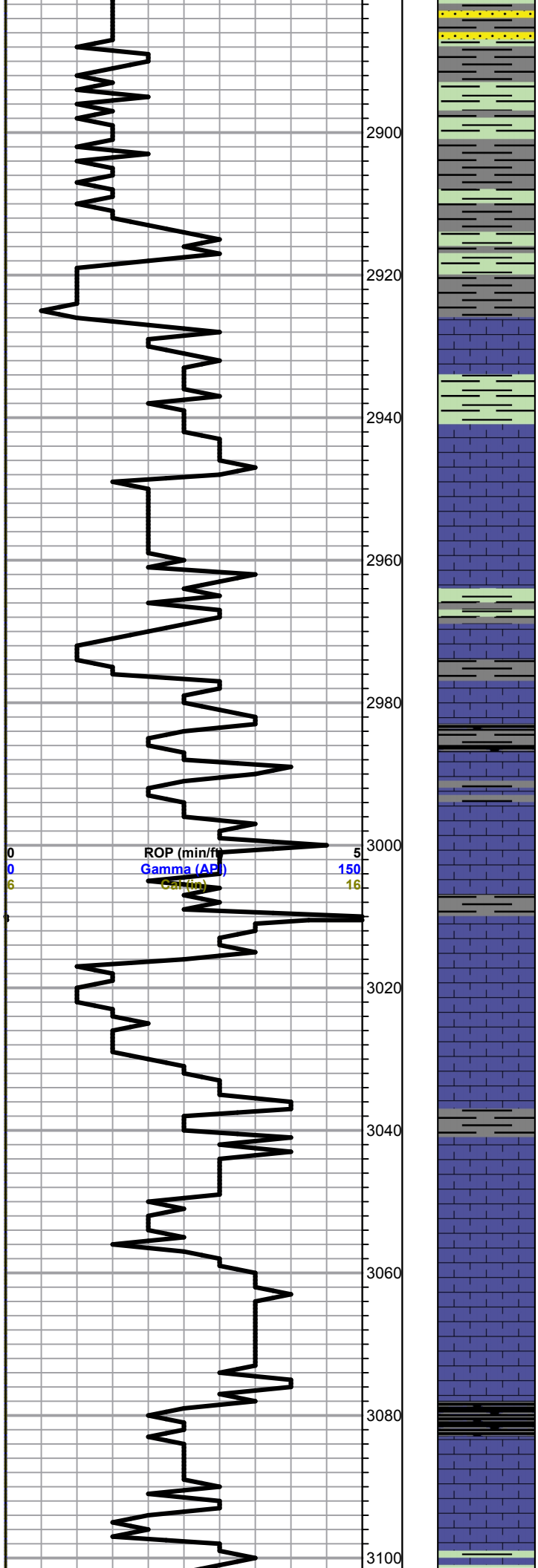
### INTERVALS

- Core
- ⋅ DST

### DST

- DST Int
- DST alt





**Shale and Trace Sand A/A**

Shale-gry/grn, silty, mica

**Brown Lime 2926.0 (-1139.0) 0.0**

Ls-tan/buff, fxln, dense, poor vis por, cherty in part

**Lansing 2942.0 (-1155.0) 0.0**

Ls-wht/crm, fxln, slightly ool, poor scattered ppt to iner xln por, no vis shows, slightly chalky

Ls-wht/crm, fxln, slightly ool, good iner xln to sub oom por, dark brown stains, broken open very weak SFO, very faint odor Shale-gry/grn

Ls-wht, fxln, sucrosic, slightly ool, poor scattered por, no vis shows, cherty in part, Shale-gry/blk

Ls-wht, fxln, slightly ool, poor vis por, chalky

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

Ls-crm/wht, flxn, ool, fair to good oom por, trace spotty stains, NSFO, chalky

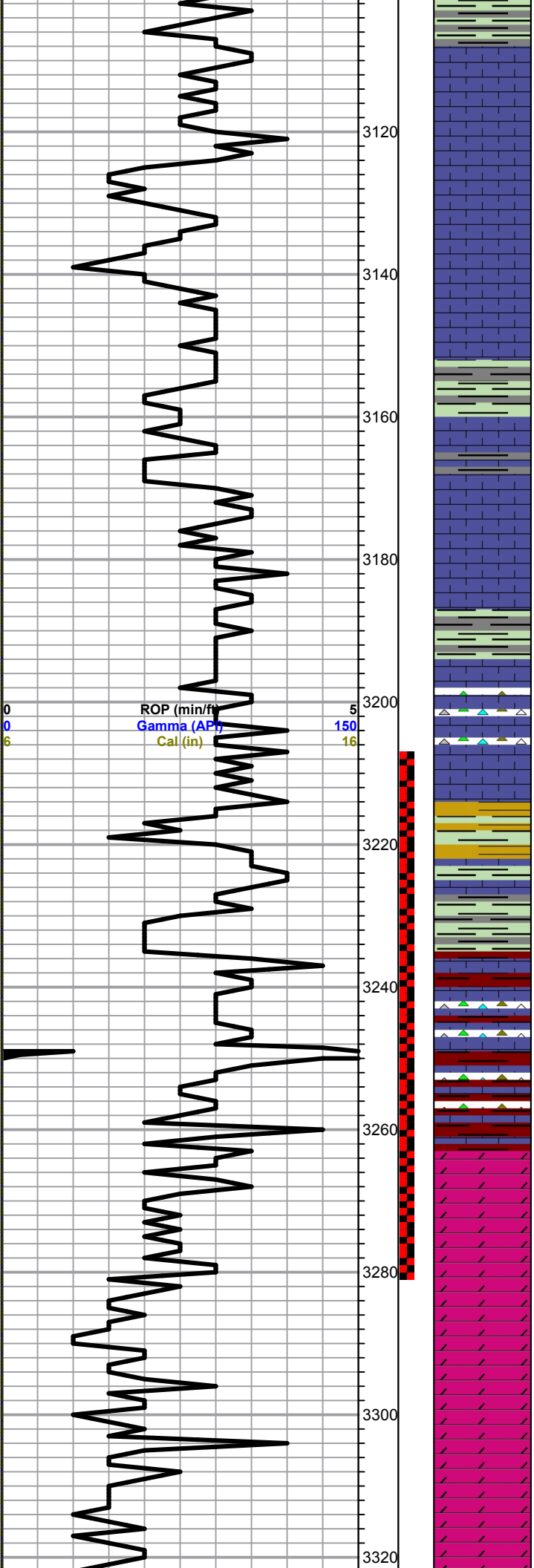
Ls-crm/wht, fxln, ool, poor to fair iner ool to oom por, Trace spotty stains, NSFO, chalky

Ls-crm/wht, fxln ool, fair to good oom por, no vis shows, chalky

Ls-crm/tan, fxln, ool, poor vis por, dense, slightly chalky

Ls-crm/tan/buff, fxln, poor iner xln por, cherty in part, no vis shows, Trace black carbon shale

Ls-crm/wht, fxln, ool, iner ool to oom por, trace spotty stains, NSFO, faint odor



odor  
Shale- gry/grn

Ls-crm/wht, fxln, ool poor iner xln por, scattered stains NSFO, chalky

LS-A/A

Ls-crm/wht, fxln, ool, poor iner xln por, trace spotty stains, NSFO, chalky, Shale-gry/grn

Ls-crm/tan, slightly ool, poor vis por, cherty in part, slightly chalky,

Shale-gry/blk/brwn

Ls-tan/lt gry, fxln, poor vis por, dense, cherty in part,

Shale-gry/grn/blk/brwn

**Base KC 3230.0 (-1443.0) 0.0**

Shale- A/A  
Ls- wht/lt gry, fxln, dense, poor vis por,

Chert varying color  
Ls-wht/crm, fxln, dense, poor vis por, Shale-red/brwn

**Arbuckle 3267.0 (-1780.0) 0.0**

Dol-wht/crm sucrosic, fxln, poor iner xln por, trace light stains, NSFO, fair odor

Dol-wht/crm, fine to med xxln, poor to fair iner xln por, trace spotty stains, Light SFO, fair odor

Dol-crm/tan, fine to med xln, sucrosic, poor ienr xln to scattered vug por, spotty light brown stains, SFO, fair odor

A/A

Dol-crm/tan, fine to med xln, sucrosic, poor to fair iner xln to vuggy por, trace stains. Spottv SFO. faint odor

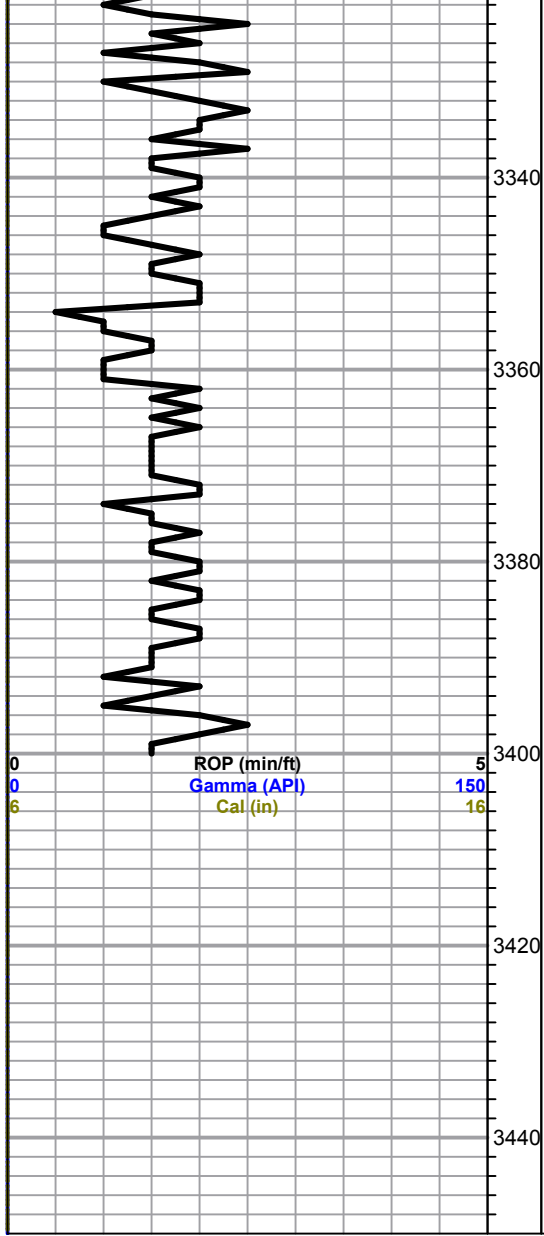
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST #1 3207-3280  
30-45-30-60  
IF: BOB 1 min

Recovery:  
1223' GO (35g 65o)  
186' SMCGO (10m 30g 60o)  
186' MCGO (30m 20g 50o)

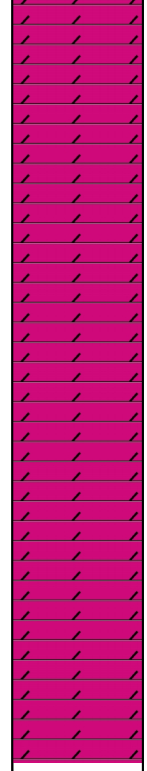
Pressures:  
ISIP 1116 psi  
FSIP 1117 psi  
IFP 75-383 psi  
FFP 400-625 psi  
HSH 1588-1571 psi

Stains, spots, or ...



0 5  
0 150  
6 16

3340  
3360  
3380  
3400  
3420  
3440



Dol- A/A

Dol-crm/wht/tan, fine to med xln, fair to good iner xln to vug por, trace light stains, NSFO, chert-boney wht/crm,

Dol- A/A

Dol-tan fine xln, sucrosic, fair iner vug por, no vis shows, chert- boney wht/crm, pyritic in part,

**Total Depth 3400.0 (-1613.0)**  
0.0

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