



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1164239  
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: \_\_\_\_\_



1164239

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# Musgrove

**PETROLEUM  
CORPORATION**  
Cliflin, Kansas

## NOTES

**Company:** Palmer Oil, Inc.  
**Lease:** Cynthia 35-5  
**Field:** Unknown  
**Location:** SW-NE-NW-SE (2150' FSL & 1950' FEL)  
**Sec:** 35 **Twp:** 31S **Rge:** 39  
**County:** Stevens **State:** Kansas  
**GL:** 3189 **KB:** 3202

**Contractor:** Duke Drilling Co. (Rig # 9)  
**Spud:** 09/19/2013 **Comp:** 9/28/13  
**RTD:** 6250 **LTD:** 6248  
**Mud Up:** 4500 **Type Mud:** Chemical

**Samples Saved From:** 4600 to RTD  
**Drilling Time Kept From:** 3900 to RTD  
**Samples Examined From:** 4600 to RTD  
**Geological Supervision From:** 4600 to RTD  
**Geologist On Well:** Wyatt Urban

**Surface Casing:** 8 5/8@1761'  
**Production Casing:** 5 1/2@

**Electrical Surveys:** By Pioneer; CNL/CDL, DIL

## Palmer Oil well comparison sheet

Formation	DRILLING WELL Palmer Oil- Cynthia 35-5 SW-NE-NW-SE 35-31-39W				COMPARISON WELL EOG RESOURCES-Cynthia 35-2 NW-SE-NE 35-31-39W				COMPARISON WELL Cynthia 35-6 SE NE SE 23-16-15W			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3906	-704			3900					3195	-3899	
Lansing	4017	-815			4013	-813	-2		4013	-818	3	
Marmaton	4622	-1420	4687	-1485	4660	-1460	40	25	4617	-1422	2	-63
Cherokee	4871	-1669	4863	-1661	4875	-1675	6	14	4888	-1693	24	32
Morrow	5390	-2188	5424	-2222	5389	-2189	1	-33	5408	-2213	25	-9
Ste. Gen	5938	-2736	5980	-2778	5922	-2722	-14	-56	5988	-2793	57	15
St. Louis	6052	-2850			6040	-2840	-10		6027	-2832	-18	
St. Louis upper	6052	-2850	6048	-2846	6106	-2906	56	60	6110	-2915	65	69
RTD	6250	-3048			6200	-3234	186					
LTD	6248	-3046			6191	-2991						

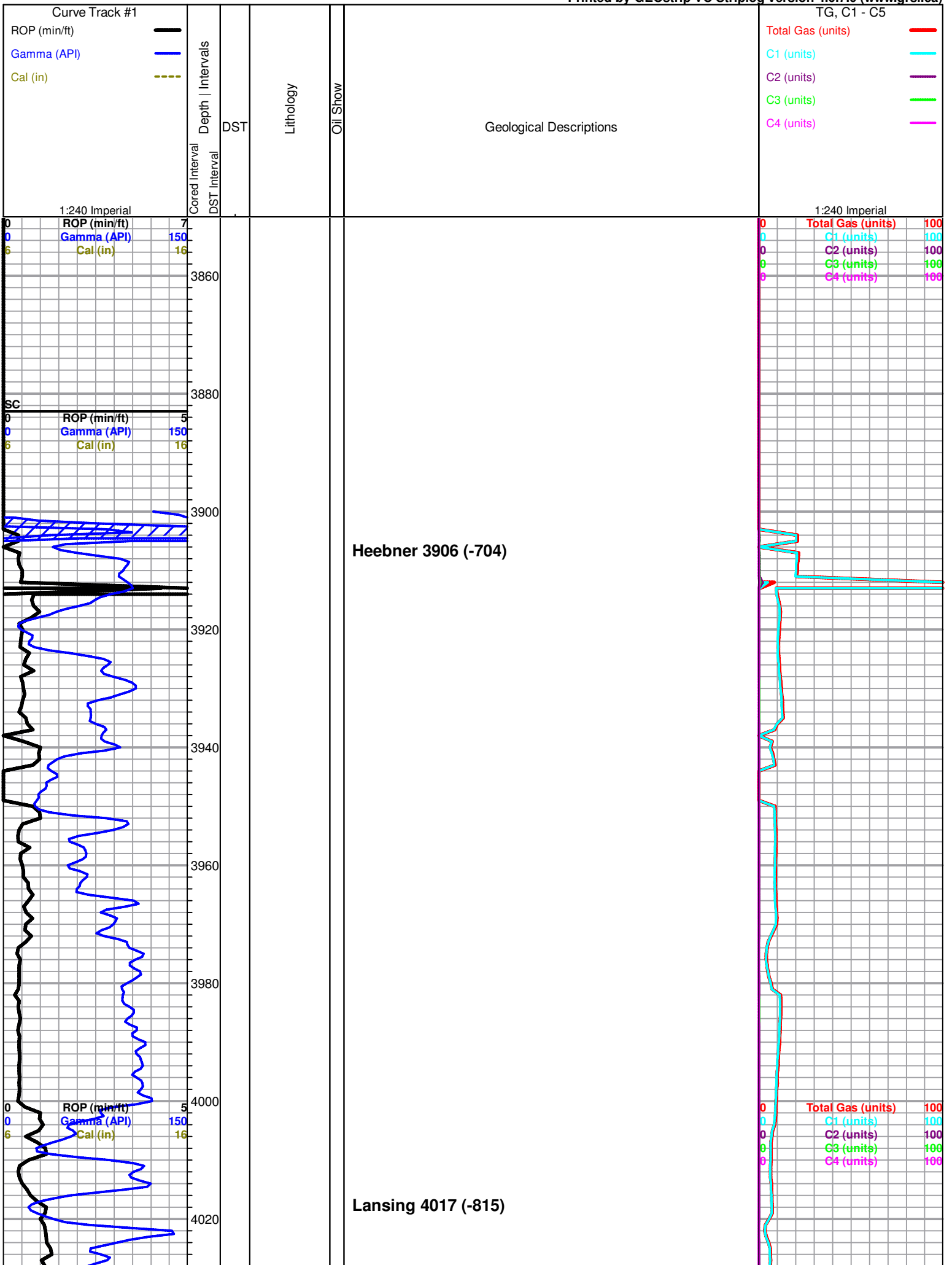


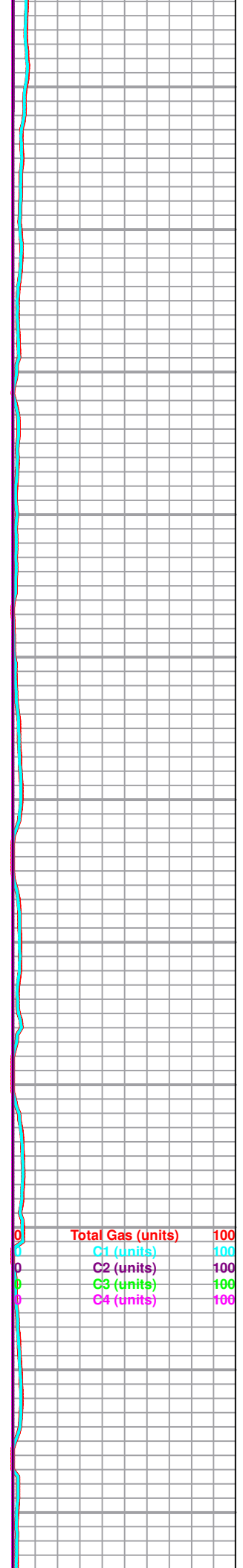
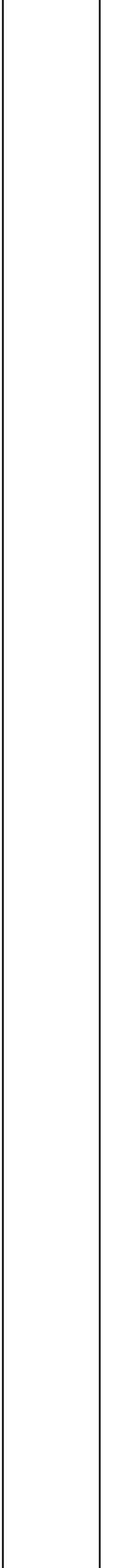
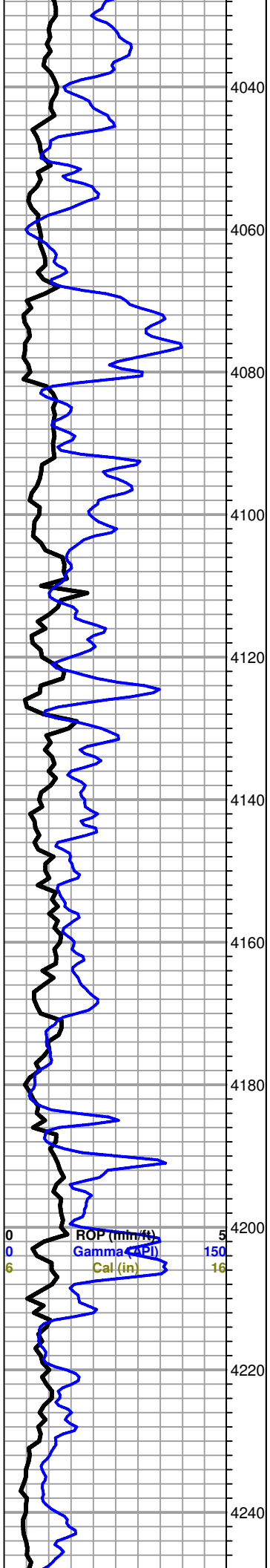
## DRILL STEM TEST REPORT

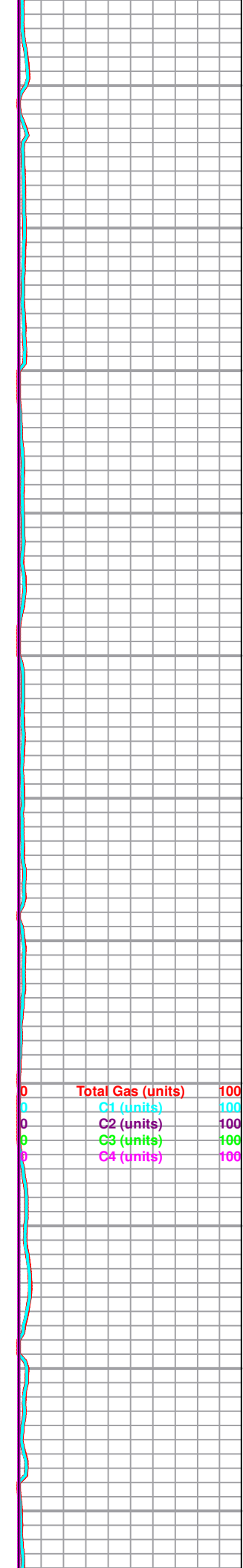
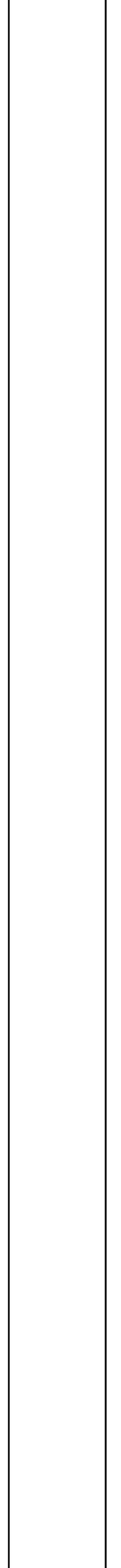
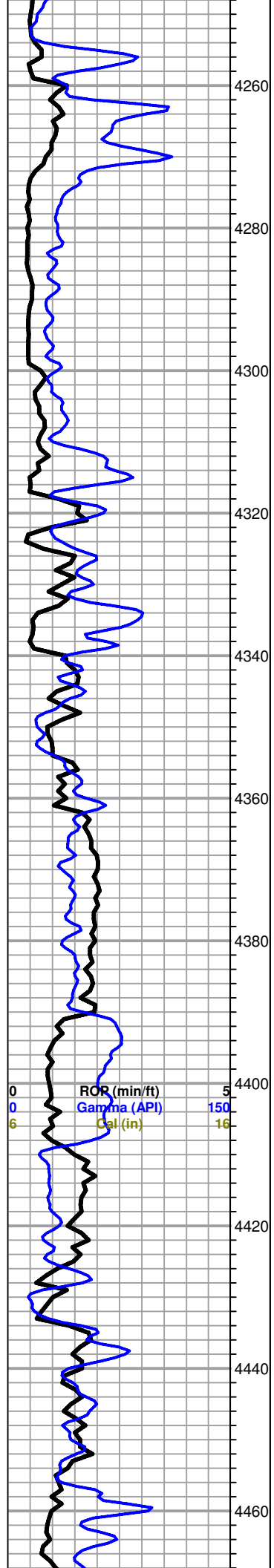
Palmer Oil Inc.

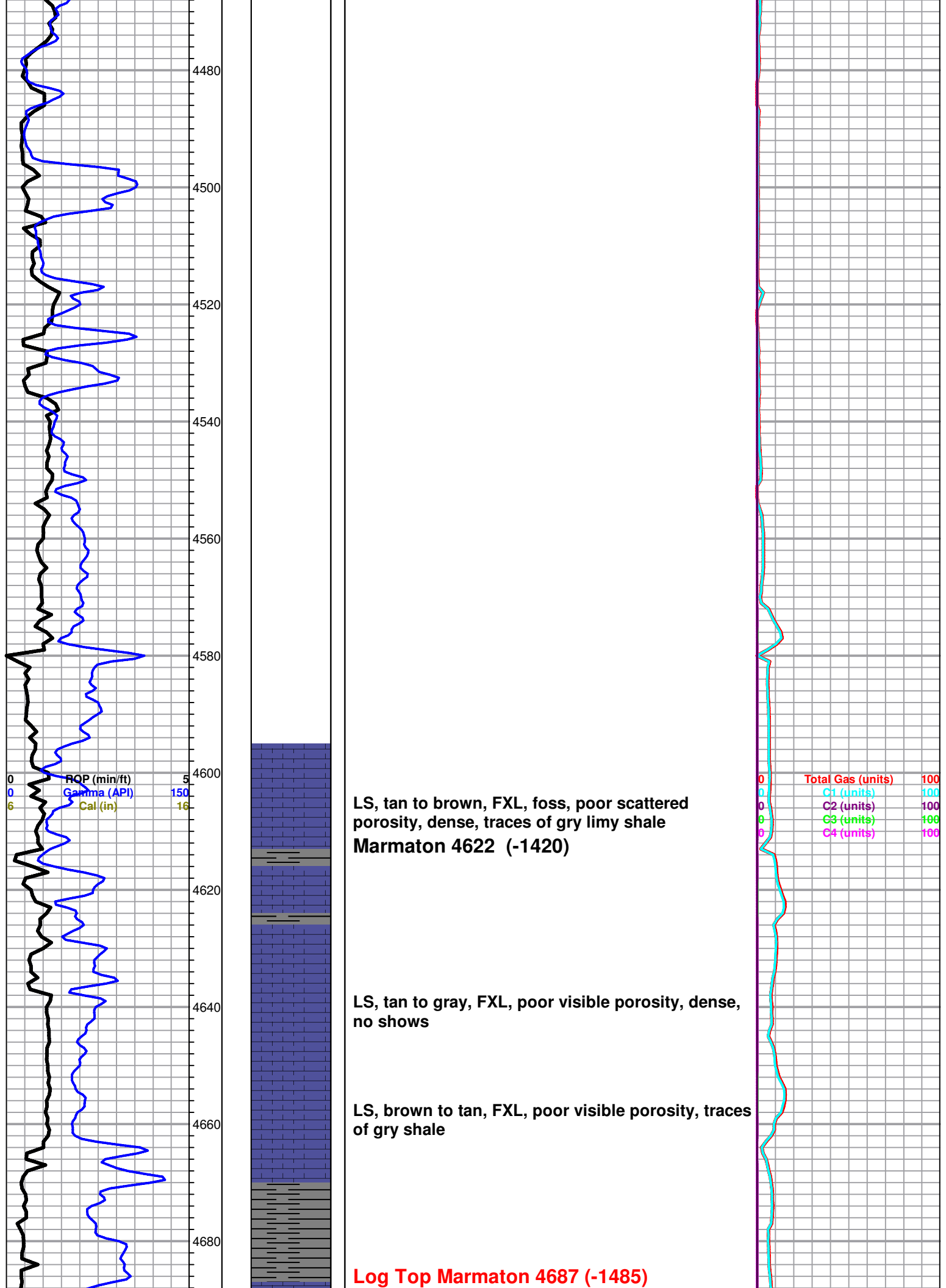
35-31s.-39e. Stevens Co. KS





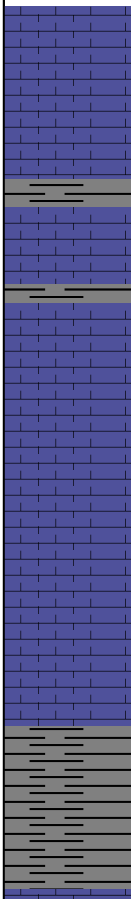






4480  
4500  
4520  
4540  
4560  
4580  
4600  
4620  
4640  
4660  
4680

0 ROP (min/ft) 5  
0 Gamma (API) 150  
6 Cal (in) 16



LS, tan to brown, FXL, foss, poor scattered porosity, dense, traces of gry limy shale  
Marmaton 4622 (-1420)

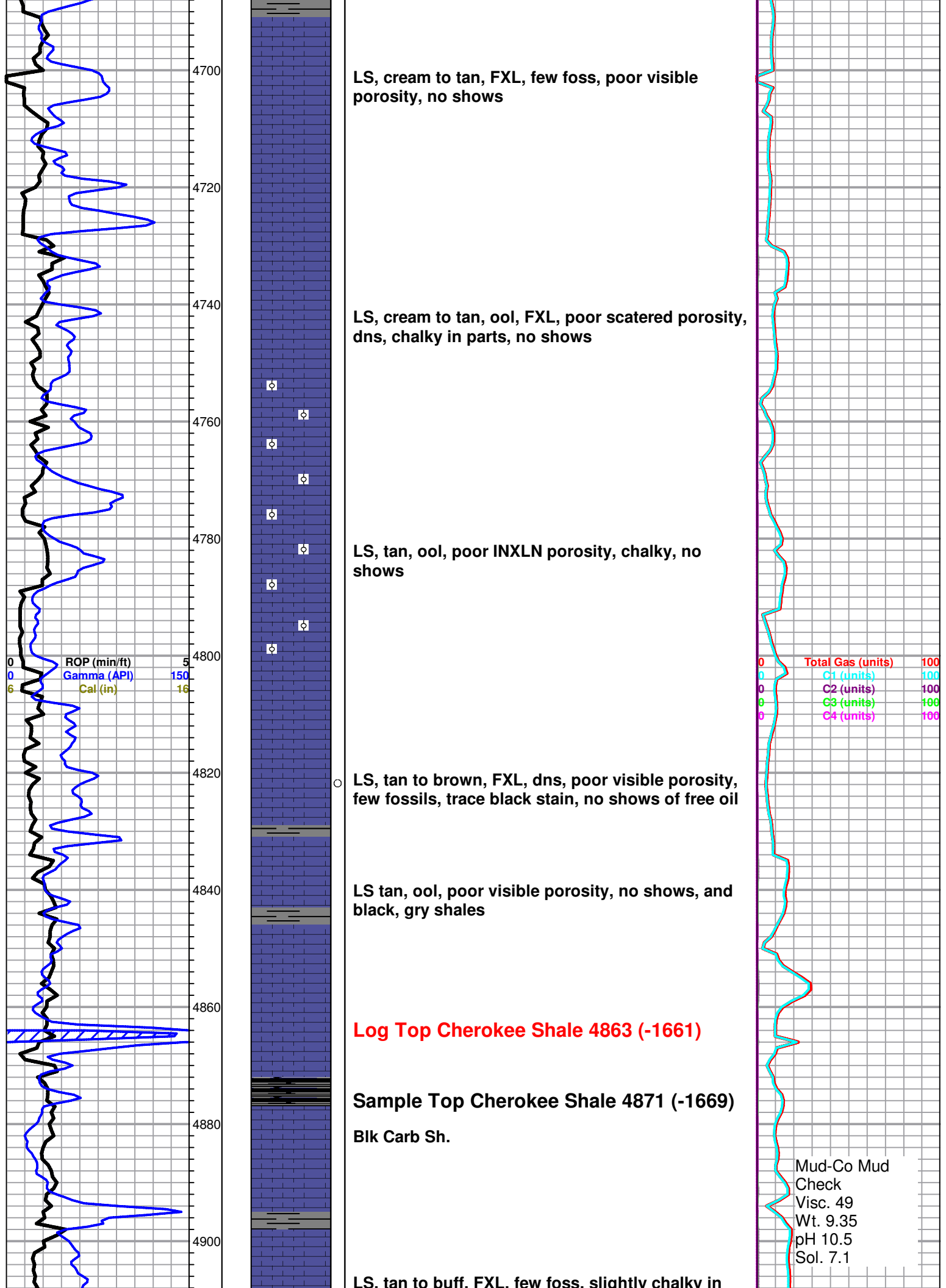
LS, tan to gray, FXL, poor visible porosity, dense, no shows

LS, brown to tan, FXL, poor visible porosity, traces of gry shale

Log Top Marmaton 4687 (-1485)

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





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

LS, cream to tan, ool, FXL, poor scatered porosity, dns, chalky in parts, no shows

LS, tan, ool, poor INXLN porosity, chalky, no shows

LS, tan to brown, FXL, dns, poor visible porosity, few fossils, trace black stain, no shows of free oil

LS tan, ool, poor visible porosity, no shows, and black, gry shales

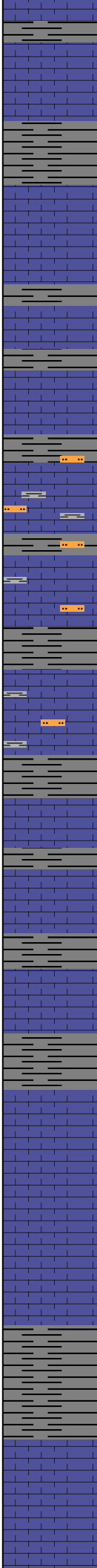
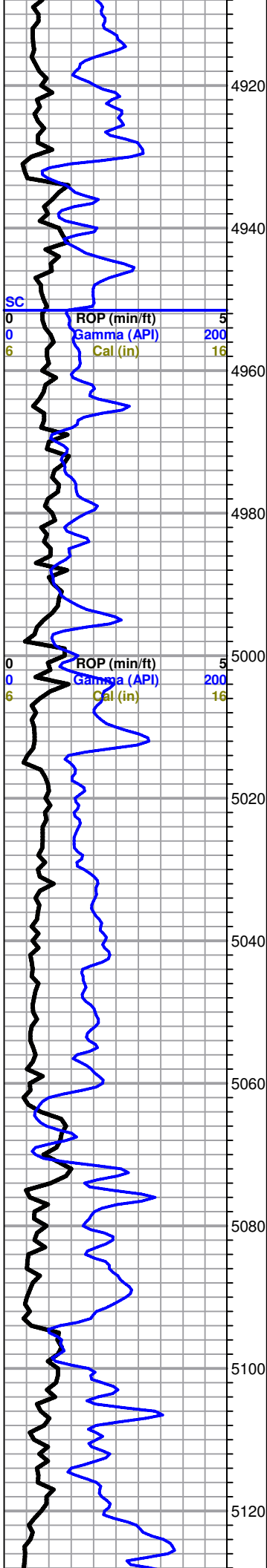
**Log Top Cherokee Shale 4863 (-1661)**

**Sample Top Cherokee Shale 4871 (-1669)**

Blk Carb Sh.

LS. tan to buff. FXL. few foss. slghtlv chalky in

Mud-Co Mud  
Check  
Visc. 49  
Wt. 9.35  
pH 10.5  
Sol. 7.1



LS, tan to buff, FXL, few foss, slightly chunky in parts, no shows

LS, gray to buff, FXL, foss, dns, no shows,

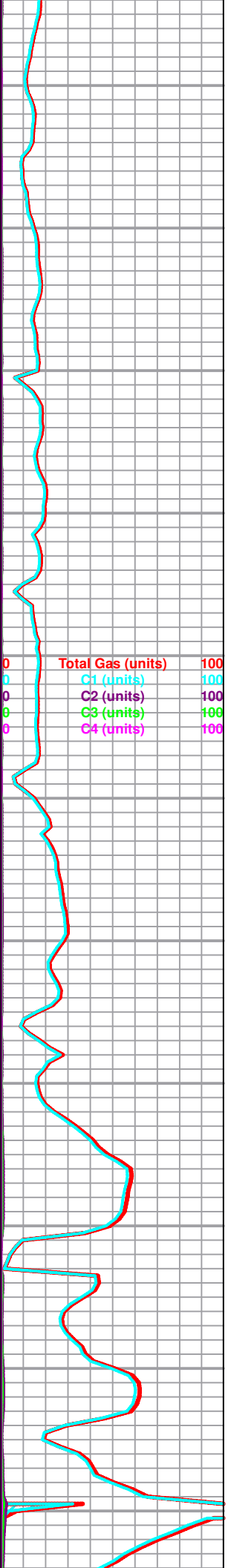
Sh, gry to black, limey, silty, trace LS, cream to brown, FXL, few foss, no shows

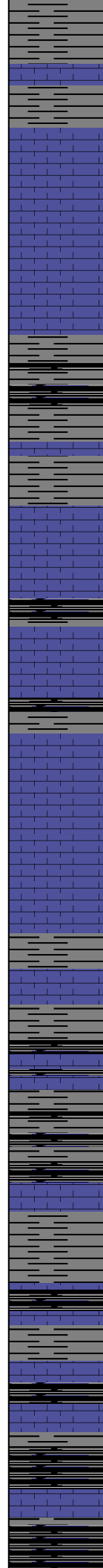
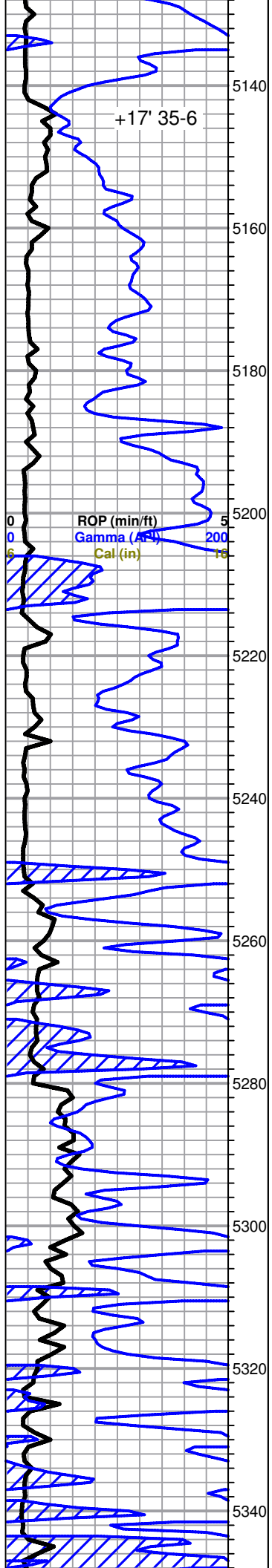
Sh A/A

LS, gry , FXL, few foss, poor visible porosity, dns, no shows

LS, cream to buff, FXL, poor visible porosity, no shows,

LS, cream to tan, FXL, few ool, poorly developed, dns, no shows





SH, gray to black, limey, silty

Sh, gray, black limey, dense, silty in parts

LS, brown to tan, fxl, dense, poor visible porosity, no shows

Sample Top ATOKA 5253 (-2051)

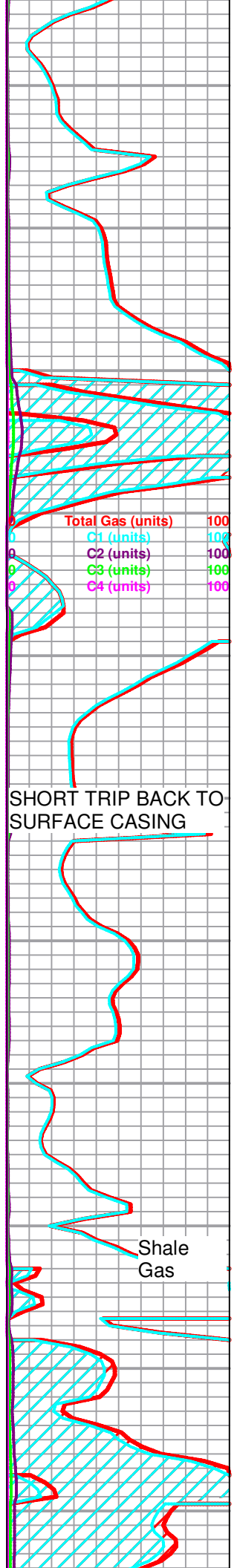
Sh, black to gray, silty in parts

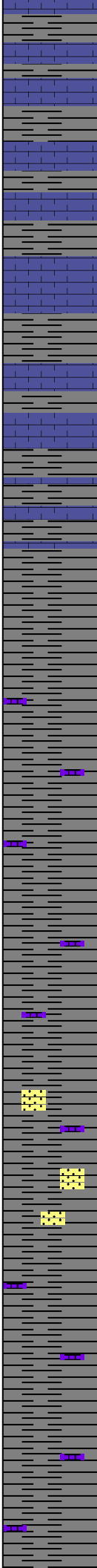
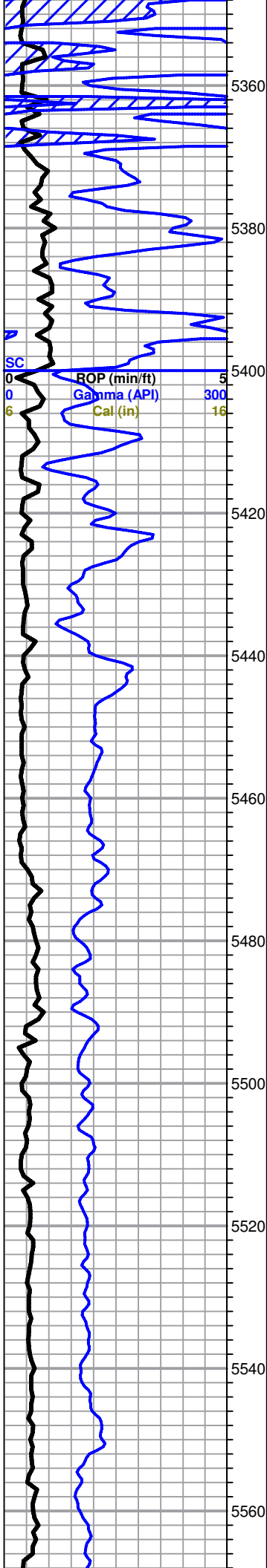
Log Top Atoka 5269 (-2067)

Sh black carb

LS, tan to gray, FXL, chalky, poor visible porosity, no show

LS, gray to buff, FXL, slightly chalky in parts, cherty, poor scattered porosity, no shows





Sh, black to gray, desense

Sample Morrow Top 5406 (-2204)

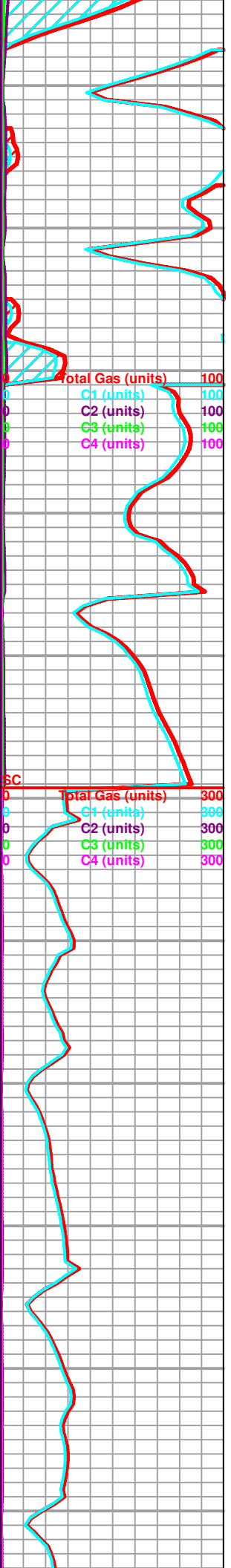
Morrow Log Top 5424 (-2222)

Sh, black, gray, silty, with traces LS, brown to tan, FXL, poor visible porosity, no shows

Sh A/A

Sh, gry to black, limey, trc cream to tan sand, f. grained, well sorted, no shows

Sh A/A, trc LS, cream to buff, FXL, few foss, poor



Sh A/A, trc, LS, cream to tan, FXL, low loss, poor  
scatt porosity, dense, no shows

5580

5600

5620

5640

5660

5680

5700

5720

5740

5760

5780

Sh A/A

Sh, black, limey, silty in parts, trc LS, FXL, poor  
visible porosity, no shows

Sh, A/A, trc, LS, tan to brown, FXL, dense, slightly  
chalky in parts, trc light black stain, NSFO

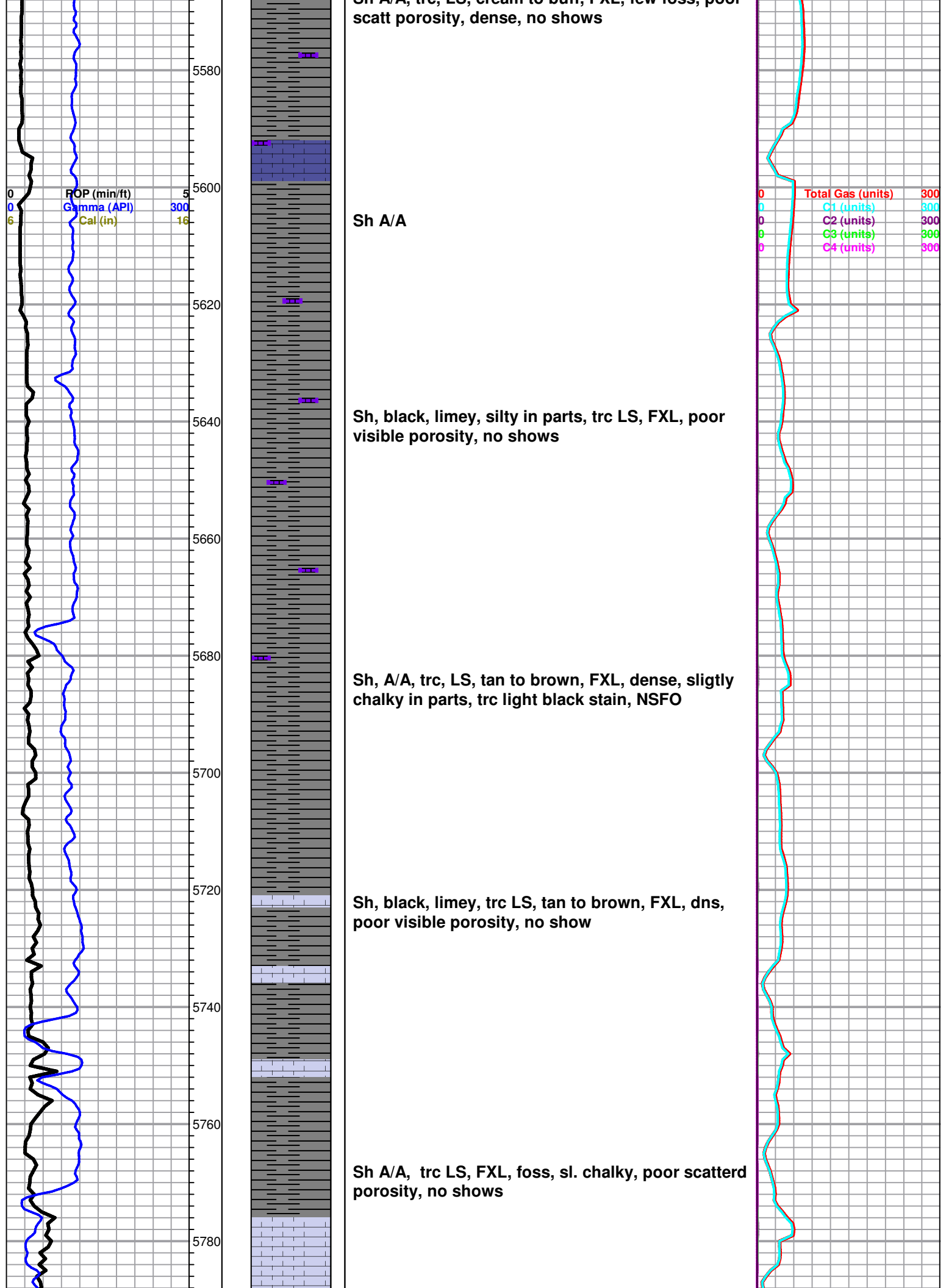
Sh, black, limey, trc LS, tan to brown, FXL, dns,  
poor visible porosity, no show

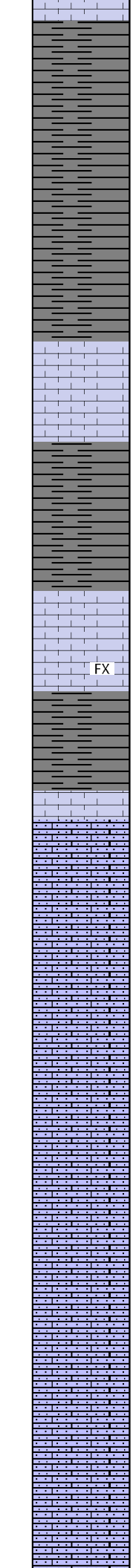
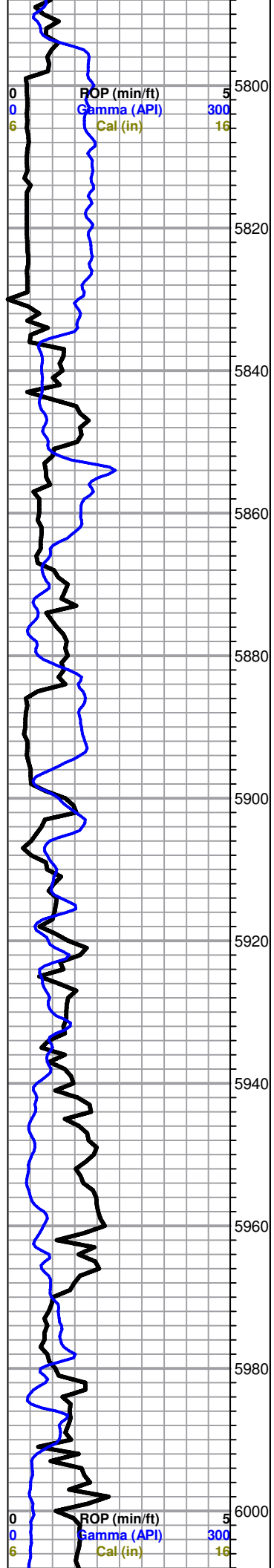
Sh A/A, trc LS, FXL, foss, sl. chalky, poor scatterd  
porosity, no shows

ROP (min/ft) 5  
Gamma (API) 300  
Cal (in) 16

0  
0  
6

Total Gas (units) 300  
C1 (units) 300  
C2 (units) 300  
C3 (units) 300  
C4 (units) 300





Sh, blk, limey, Trc, LS, cream to tan, ool, poorly developed, dense, poor scattered porosity, no shows

Sample Top Chester 5836 (-2638)

Log Top Chester 5840 (-2638)

Sh, A/A

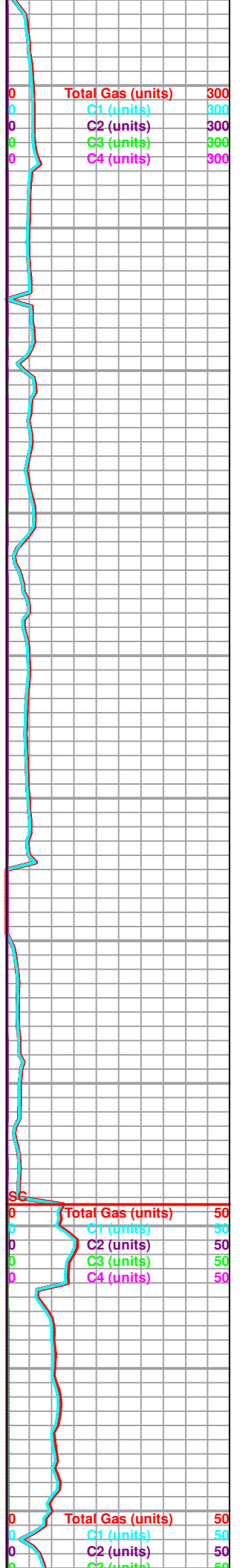
LS, gry, FXL, slightly cherty, poor visible porosity, no shows

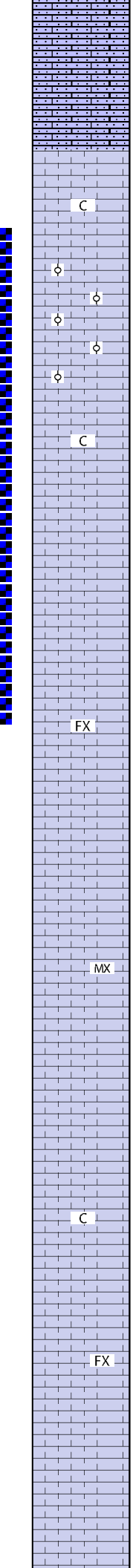
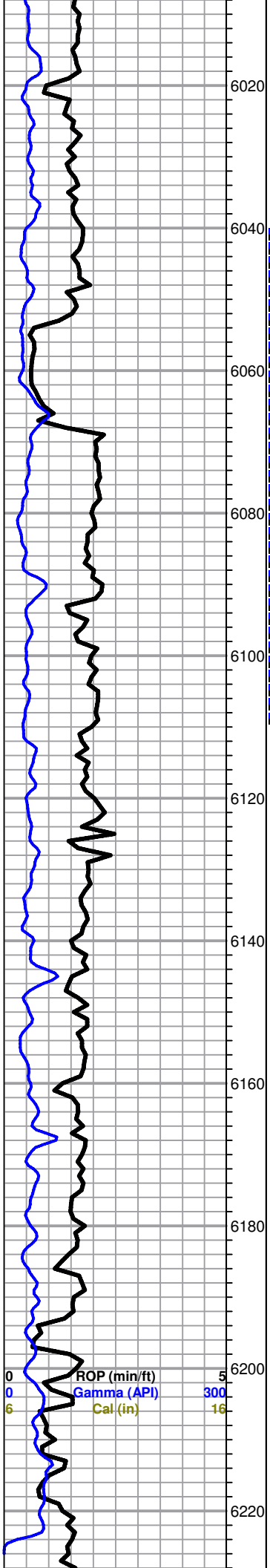
LS, tan, sandy, F.grained, no shows

LS, tan to brown, sandy, no shows

Log Top Ste. Gen 5980 (-2778)

LS, tan, brn, red, sandy, fine grain, few oolites, no show





**Sample Top St. Louis Top 5960 (-2758)**

LS, tan to buff, fxl, foss, chlky, dense, poor visible porosity, no shows.

**Log Top Upper St. Louis 6046 (-2844)**

**Sample Top Upper St. Louis 6052 (-2850)**

LS, cream to tan, ool, v.chalky, fair odor in fresh broken samples, good flor cut,

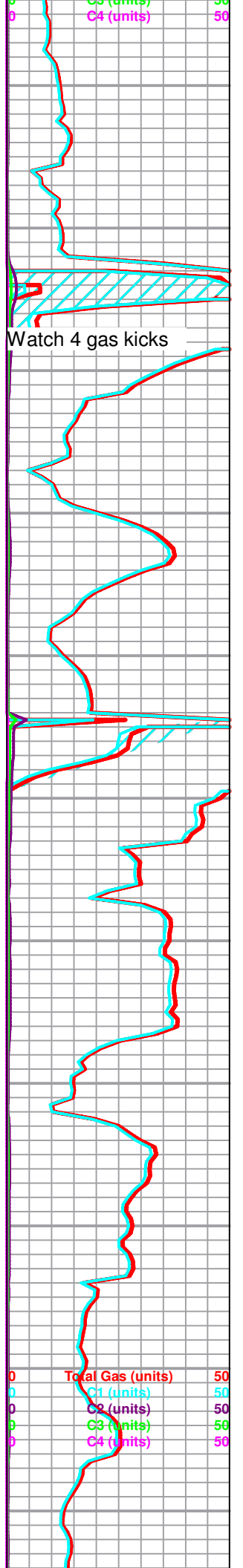
LS, tan to buff, FXL, dense, poor visible porosity no shows

**LS A/A**

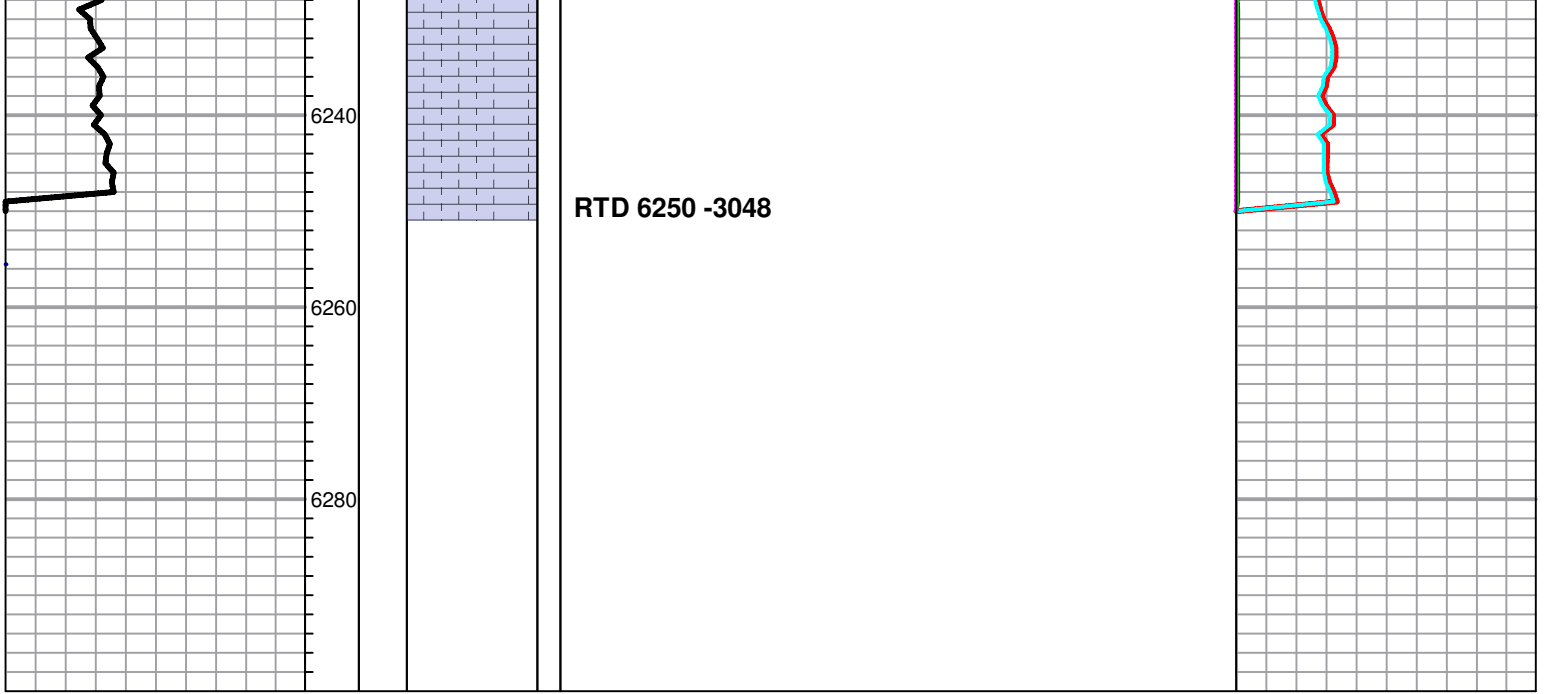
LS, tan to brown, Micro-FXL dense, poor visible porosity no shows.

LS, cream to tan, chalky, ool in parts, poor scattered porosity, no shows trc white chert

LS, brn to tan FXL, dns, foss, poor visible porosity, no shows



Watch 4 gas kicks





Date 9/22/2013 District Liberal # 21 Ticket No. \_\_\_\_\_  
 Company PALMER OIL Rig DUKE # 9  
 Lease CYNTHIA Well No 35-5  
 County STEVENS 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 1765.56  
 SJ - 42.65 FT

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 0.0636 LIN. FT/BBL \_\_\_\_\_  
 Open Holes BBLs/LIN. FT 0.0735 LIN. FT/BBL \_\_\_\_\_  
 Drill Pipe BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Annulus BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

CEMENT DATA

Spacer Type \_\_\_\_\_ 10 BBL FRESH WATER  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Time \_\_\_\_\_ hrs. Type ALWC: TYPE 1 - CLASS A  
3% CC, 1/4# FLOSEAL Excess \_\_\_\_\_

Amt. 625 Skys Yield 1.97 ft<sup>3</sup>/sk Density 12.4 PPG

TAIL: Time \_\_\_\_\_ hrs. Type CLASS A

3% CC, 1/4# FLOSEAL Excess \_\_\_\_\_

Amt. 200 Skys Yield 1.18 ft<sup>3</sup>/sk Density 15.6 PPG

WATER Lead 10.9 Gal/sk Tail 5.3 Gal/sk Total \_\_\_\_\_ BBLs

Pump Trucks Used: 530 - 484  
 Bulk Equipment 456 - 251

470 - 467

562 - 528

549 - 550

Float Equipment: Manufacturer WEATHERFORD

Shoe: Type GUIDE SHOE Depth 1765.56

Float: Type AFU INSERT FLOAT Depth 1722.91

Centralizers: Quantity 3 Plugs Top 1 Bottom \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equipment \_\_\_\_\_

Disp: Fluid Type FRESH WATER Amt 109.6 bbls Weight 8.33 PPG

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE EMELIO CEMENTER KIRBY HARPER

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS	
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD		RATE BBLs/MIN
1700						ON LOCATION -- SPOT AND RIG UP	
2030						CASING ON BOTTOM -- BREAK CIRCULATION	
2030						SAFETY MEETING	
2046		2000				PRESSURE TEST	
2048		200			10	5	START PUMPING 10 BBL FRESH WATER SPACER
2056					219	5	START MIXING 625 SK ALWC @ 12.4 PPG
2130							PUMP TRUCK BROKE DOWN -- CIRC. CMT OUT AND ORDER TRUCKS
0015							TRUCKS ARRIVE ON LOCATION
0015							SAFETY MEETING
0038		2000					PRESSURE TEST
0040		200			10	5	START PUMPING 10 BBL FRESH WATER SPACER
0043		200			219	5	START MIXING 625 SK ALWC @ 12.4 PPG
0124		200			42	5	START MIXING 200 SK CLASS A @ 15.6 PPG
0138							SHUT DOWN -- DROP TOP PLUG
0143		100		0		5	START DISPLACING WITH FRESH WATER
0149		100		50		4	LOST RETURNS
0158		400		99		2	SLOW RATE
0206		400-1000		109.5			BUMP PLUG
0209		1000-0					RELEASE PRESSURE -- FLOAT HELD
0210							DID NOT CIRCULATE CEMENT TO THE PIT -- ORDER CEMENT & 1" TUBING
0600							TRUCK ARRIVES ON LOCATION -- RIH WITH 1" TUBING
0640		200		0		1	START MIXING 150 SK CLASS A @ 15.6 PPG
0731		200		31			SHOT DOWN -- CEMENT AT SURFACE

FINAL DISP. PRESS 400 PSI BUMP PLUG TO 1000 PSI BLEEDBACK 0.5 BBLs **THANK YOU**



**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 04552 A

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

DATE OF JOB: 9-29-13	DISTRICT: 1717	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: Palmer Oil / American Warrior		LEASE: Cynthia		35-5		WELL NO.				
ADDRESS:		COUNTY: Stevens		STATE: KS						
CITY:		STATE:		SERVICE CREW: Juan Hector Edgar						
AUTHORIZED BY: Jerry Bennett		IRB		JOB TYPE: 2-42 L.S.						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
39878	10						9-28			
27808	-					ARRIVED AT JOB	9-29			1:00
19919	-					START OPERATION				5:30
30463	-					FINISH OPERATION				7:00
19566	-					RELEASED				8:00
						MILES FROM STATION TO WELL	50			

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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
c1105	AA7 Cement	✓ sks	200		3640 00
c1103	60140 Poz	✓ sks	50		600 00
cc113	Gypsum	✓ lb	940		705 00
cc111	Salt	✓ lb	1107		553 50
cc103	C-15	✓ lb	143		1412 50
cc105	C-41 P	✓ lb	47		188 00
cc201	Gilsonite	✓ lb	1,000		670 00
cf1251	Auto Fill Float Shoe	✓ ea	1		360 00
cf607	Latch Down Plug Baffle	✓ ea	1		400 00
cf4452	Economizer Tinged Centralizers	✓ ea	12		900 00
cf4552	Cement Basket	✓ ea	1		955 00
cf3000	Industrial Rubber Thread Lock	✓ ea	1		34 00
cc151	Mud Flash	gal	500		430 00
e101	Heavy Equipment Mileage	mi	100		700 00
ce240	Mixing Service Charge	sks	250		350 00
e113	Bulk Delivery Charge	tm	578		924 00
cc207	Depth Charge 6000-7006	4hrs	1		3240 00
ce204	Plug Container Charge	job	1		250 00
e100	Unit Mileage Charge Pickups	mi	50		212 50
SUB TOTAL					\$ 11,049.61

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: *Juan Edgar*  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Cynthia Lopez*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.





**BASIC**  
ENERGY SERVICES  
Liberal, Kansas

**Cement Report**

Customer	Palmer Oil / American Warrior	Lease No.		Date	9-29-13
Lease	Cynthia	Well #	35-5	Service Receipt	
Casing	5 1/2	Depth	6250	County	Stevens
Job Type	2-47	Formation		State	Ks
				Legal Description	Sec 35T-3/ R-39

Pipe Data		Perforating Data		Cement Data
Casing size	5 1/2	Tubing Size		Lead
Depth	6250	Depth		200 sks
Volume	144.48	Volume		yield 1.51
Max Press	3000	Max Press		gal/sk 664
Well Connection	5 1/2	Annulus Vol.		Tail in
Plug Depth		Packer Depth		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00					on location
1:20					Safety Meeting & Rig up
1:45					Run Float equipment on Joints
					1, 3, 4 basket, 5, 7, 9, 11, 13, 15, 17, 19, 21
5:20					Drop Ball Start Circulation
5:45	2500				Prime up Psit est
5:46	100		12	5.0	Start Mud Flush
5:49	100		54	5.5	Start Cement
6:05	0				Shut Down
					Wash up
					Drop Plug
6:09	100		1	5.5	Start Displacement
6:15	400		40	5.5	Caught Cement
6:47	1000		130	2.0	Slowdown Rate
6:47	2800				Plug landed
					Shut Down
6:55			5		Plug mouse and Rat Hole

Service Units	39878	27808	19919	30363	19566
Driver Names	JUAN	Hector		Edgar	

Emilio Customer Representative     
 Jerry Bennett Station Manager     
 JUAN Ortiz Cementer



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palmer Oil Inc.  
3118 N. Cummings Rd.  
Garden City, KS 67546  
ATTN: Wyatt Urban

**35-31s.-39e. Stevens Co. KS**  
**Cynthia 35-5**  
Job Ticket: 52456 **DST#: 1**  
Test Start: 2013.09.27 @ 05:41:50

## GENERAL INFORMATION:

Formation: **St. Louis**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 09:52:35  
Time Test Ended: 16:31:35  
Interval: **6040.00 ft (KB) To 6110.00 ft (KB) (TVD)**  
Total Depth: 6110.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ryan Reynolds  
Unit No: 48  
Reference Elevations: 3202.00 ft (KB)  
3188.00 ft (CF)  
KB to GR/CF: 14.00 ft

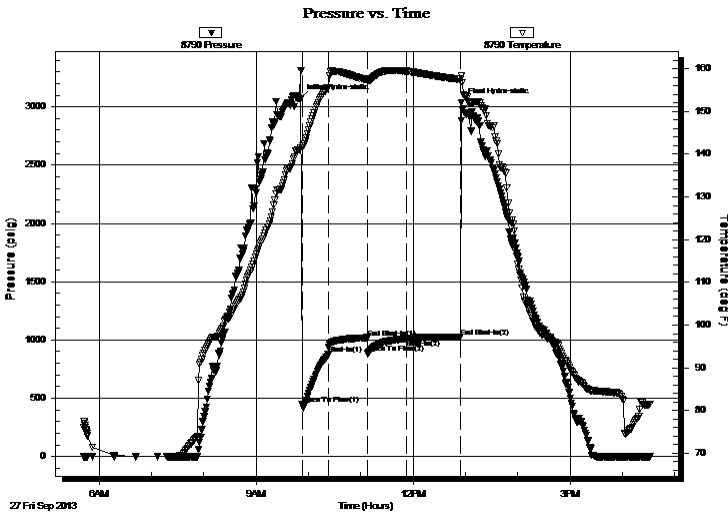
## Serial #: 8790

Inside

Press @ Run Depth: 1010.55 psig @ 6041.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.09.27 End Date: 2013.09.27 Last Calib.: 2013.09.27  
Start Time: 05:41:55 End Time: 16:31:35 Time On Btm: 2013.09.27 @ 09:50:05  
Time Off Btm: 2013.09.27 @ 12:55:20

TEST COMMENT: IF: Strong blow . BOB @ 1min. No GTS.  
IS: Fair blow . 1/4" - 6"  
FF: Strong blow . BOB @ 4min. No GTS.  
FS: Fair blow . surf. - 4"

## PRESSURE SUMMARY



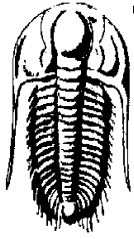
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3066.73	141.03	Initial Hydro-static
3	450.02	141.56	Open To Flow (1)
33	874.83	155.61	Shut-In(1)
77	1019.14	157.37	End Shut-In(1)
78	885.96	157.29	Open To Flow (2)
123	1010.55	159.42	Shut-In(2)
184	1027.13	157.53	End Shut-In(2)
186	3034.67	158.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
960.00	VSLI OCGW trc%oil, 5%gas, 95%w tr	11.74
360.00	OGCW 5%oil, 5%gas, 90%w tr	5.05
600.00	OGMCW 10%oil, 15%gas, 15%mud, 60%8.42	
300.00	GOWCM 15%gas, 20%oil, 30%w tr, 35%4.21	
0.00	569' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palmer Oil Inc.  
3118 N. Cummings Rd.  
Garden City, KS 67546  
ATTN: Wyatt Urban

**35-31s.-39e. Stevens Co. KS**  
**Cynthia 35-5**  
Job Ticket: 52456 **DST#: 1**  
Test Start: 2013.09.27 @ 05:41:50

## GENERAL INFORMATION:

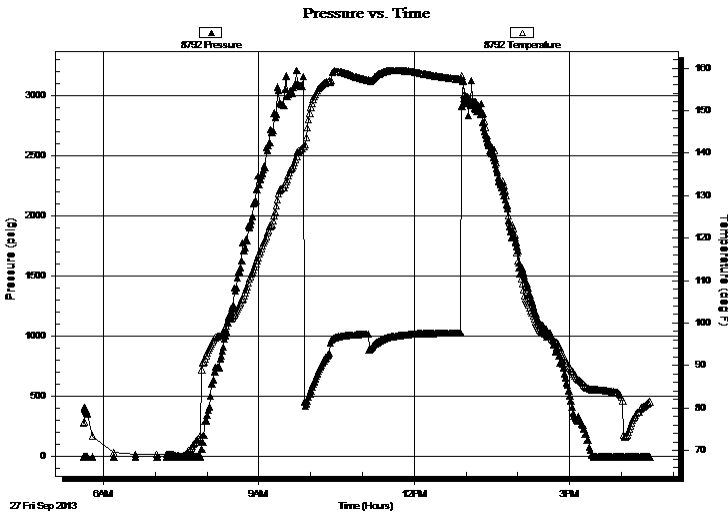
Formation: **St. Louis**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 09:52:35  
Time Test Ended: 16:31:35  
Interval: **6040.00 ft (KB) To 6110.00 ft (KB) (TVD)**  
Total Depth: 6110.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ryan Reynolds  
Unit No: 48  
Reference Elevations: 3202.00 ft (KB)  
3188.00 ft (CF)  
KB to GR/CF: 14.00 ft

## Serial #: 8792 Outside

Press @ Run Depth: psig @ 6041.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.09.27 End Date: 2013.09.27 Last Calib.: 2013.09.27  
Start Time: 05:36:59 End Time: 16:33:39 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: Strong blow . BOB @ 1min. No GTS.  
IS: Fair blow . 1/4" - 6"  
FF: Strong blow . BOB @ 4min. No GTS.  
FS: Fair blow . surf. - 4"

## PRESSURE SUMMARY



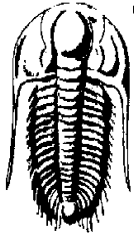
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
960.00	VSLI OCGW trc%oil, 5%gas, 95%w tr	11.74
360.00	OGCW 5%oil, 5%gas, 90%w tr	5.05
600.00	OGMCW 10%oil, 15%gas, 15%mud, 60%w tr	8.42
300.00	GOWCM 15%gas, 20%oil, 30%w tr, 35%w tr	4.21
0.00	569' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palmer Oil Inc.  
3118 N. Cummings Rd.  
Garden City, KS 67546  
ATTN: Wyatt Urban

**35-31s.-39e. Stevens Co. KS**  
**Cynthia 35-5**  
Job Ticket: 52456      **DST#: 1**  
Test Start: 2013.09.27 @ 05:41:50

## Mud and Cushion Information

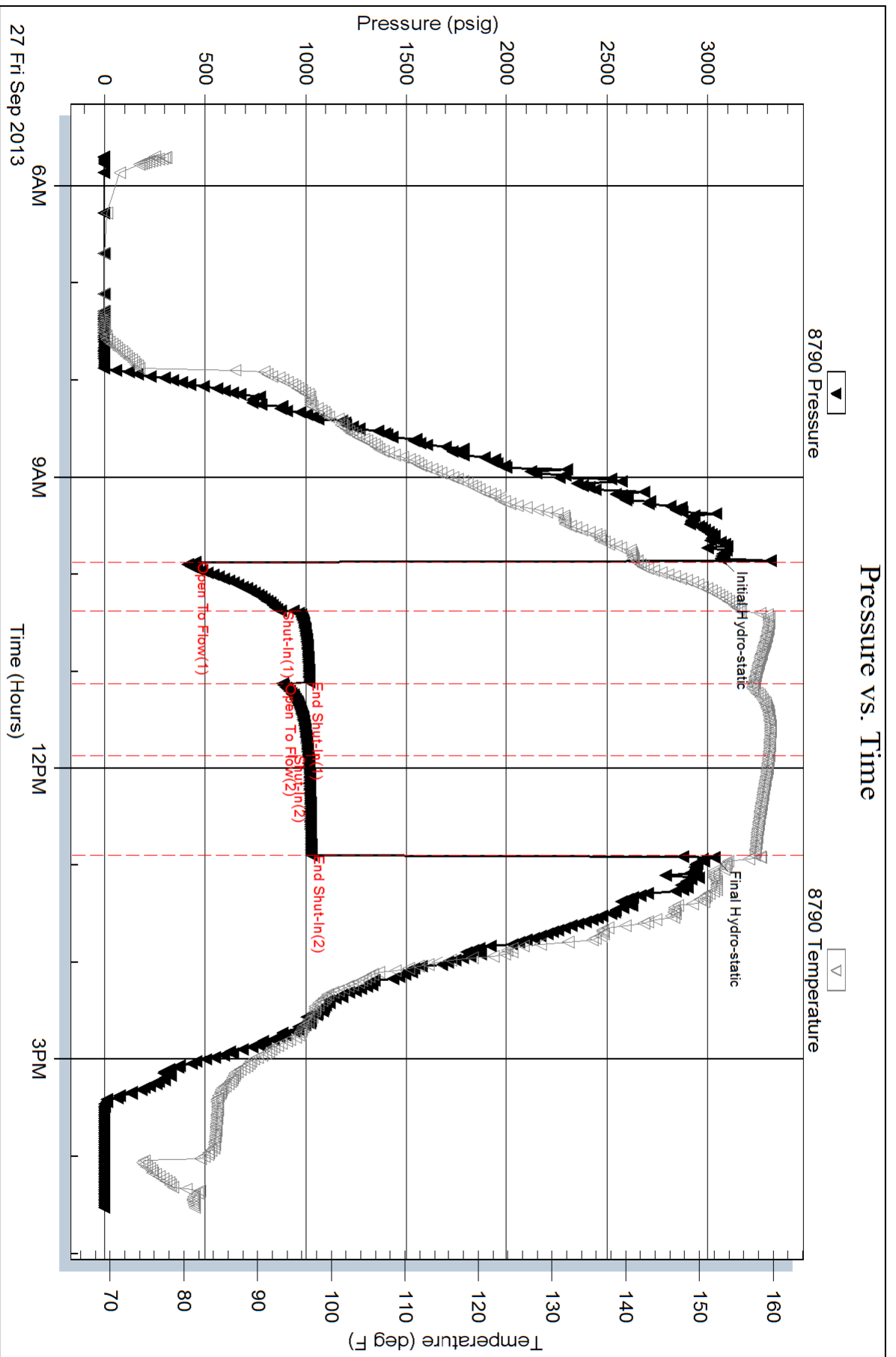
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	90000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 400.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
960.00	VSLI OCGW trc%oil, 5%gas, 95%w tr	11.745
360.00	OGCW 5%oil, 5%gas, 90%w tr	5.050
600.00	OGMCW 10%oil, 15%gas, 15%mud, 60%w tr	8.416
300.00	GOWCM 15%gas, 20%oil, 30%w tr, 35%mud	4.208
0.00	569' GIP	0.000

Total Length: 2220.00 ft      Total Volume: 29.419 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



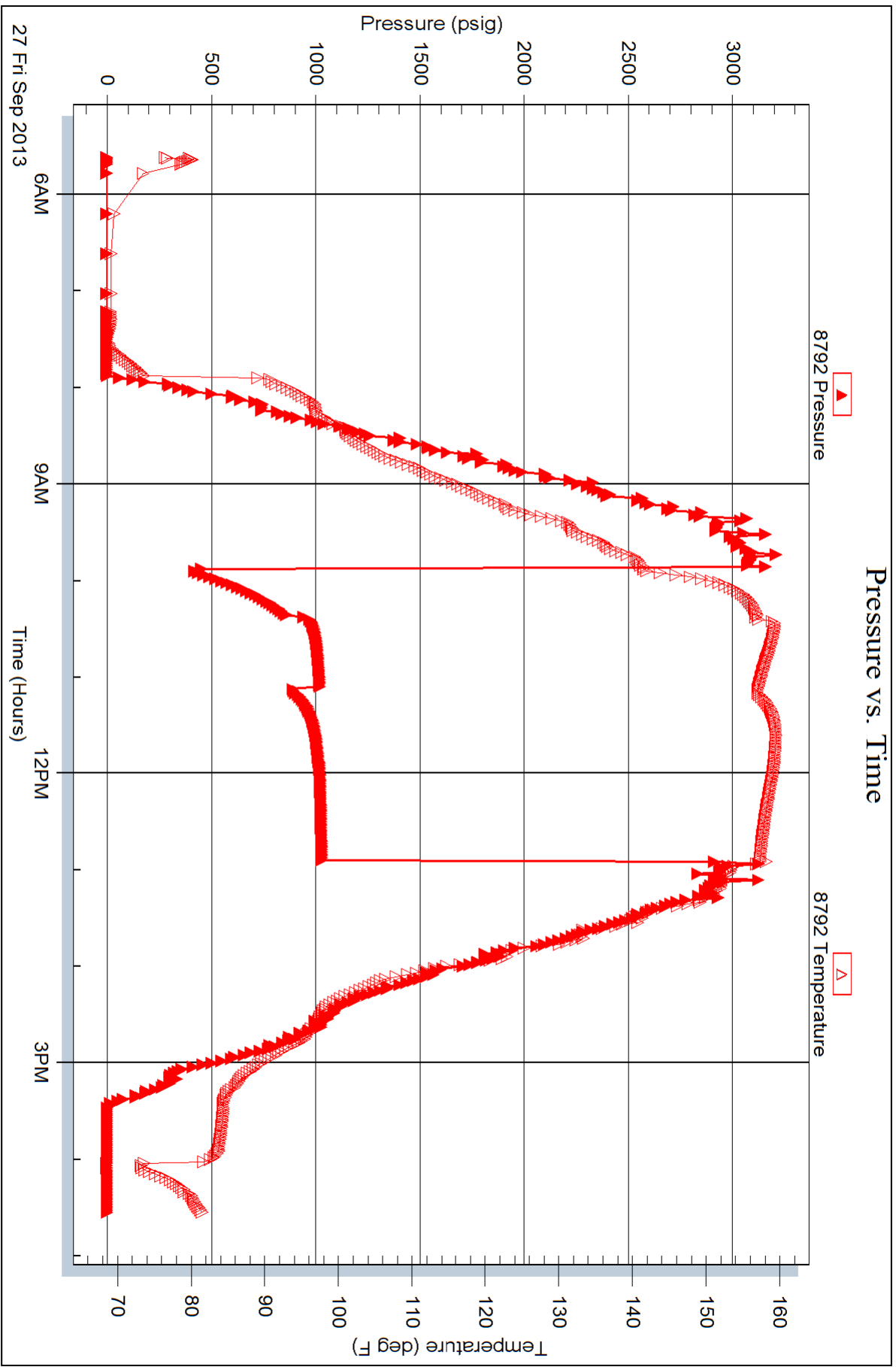


Serial #: 8792

Outside Palmer Oil Inc.

Cynthia 35-5

DST Test Number: 1



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 21, 2013

Joe Smith  
Palmer Oil, Inc.  
3118 N. Cummings Rd.  
PO BOX 399  
GARDEN CITY, KS 67846

Re: ACO1  
API 15-189-22818-00-00  
Cynthia 35-5  
SE/4 Sec.35-31S-39W  
Stevens County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Joe Smith