



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1191891
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: _____

1191891

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

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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CEMENTING LOG

Date 1/21/2014 District Liberal # 21 Ticket No. 52506
 Company Palmer Oil Rig Duke #
 Lease UPC Well No 23-7
 County Stevens State KS
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 24 Collar _____

CEMENT DATA

Spacer Type _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 LEAD: Time _____ hrs. Type 65/35 6% gel 3% CC
.25# Flo Seal Excess _____
 Amt. 625 Sks Yield 1.97 ft³/sk Density 12.4 PPG
 TAIL: Time _____ hrs. Type Class A 3% CC .25# Flo Seal
 Excess _____
 Amt. 200 Sks Yield 1.18 ft³/sk Density 15.6 PPG
 WATER Lead 10.9 Gal/sk Tail 5.3 Gal/sk Total _____ BBLs

Casing Depths Top _____ Bottom 1746

Pump Trucks Used: 549-550
 Bulk Equipment 774-744
869-841

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 _____ LIN. FT/BBL _____
 Open Holes BBLS/LIN. FT _____ LIN. FT/BBL _____
 Drill Pipe BBLS/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLS/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

Float Equipment: Manufacturer Weather Ford
 Shoe: Type Guide Shoe Depth 1746
 Float: Type Insert Float Depth 1703
 Centralizers: Quantity 3 Plugs Top _____ Bottom _____
 Stage Collars _____
 Special Equipment _____
 Disp: Fluid Type H2O Amt 108 bbls Weight 8.3 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____

CEMENTER Lenny Baeza

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
7:00pm						On location at 7:00pm
10:25pm	350		20		5	Rigging up to well head and 20 bbls of H2O ahead of cement
10:33pm	200		239		6	Mixing lead cement @ 12.4 bbs
10:55pm	200		263		5	End of cement now mixing tail cement @ 15.6
11:08pm	200		263			Shut down end of tail cement and dropping the plug
11:10pm	150		263		3	Plug left the head and total displacement of 108 bbls
11:24pm	340		318		5	55bbls gone and we have cement to surface really good cement
11:35pm	550		368		3	100 bbls gone and slowed down to land the plug 3bpm
11:40	600		376		3	108 bbls gone and landed the plug 1100 psi and holding total of 45 bbls of cement to surface released the psi and .5 bbls return of h2o
						Thank you!!!!!!!!!!!!!!!!!!!!!!!!!!!!

FINAL DISP. PRESS. 700 PSI BUMP PLUG TO 1200 PSI BLEEDBACK 0.5 BBLs THANK YOU



CEMENTING LOG

Date 2/1/2014 District Liberal # 21 Ticket No. 52411
 Company Palmer Oil Rig Duke 9
 Lease Upc Well No 23-7
 County Stevens State Ks
 Location _____
 Field _____
 Casing Data
 Size 8 5/8 Type k-55 Weight 24 Collar _____

CEMENT DATA

Spacer Type Fresh water
 Amt. _____ Sks Yield _____ ft³/sk Density 8.33 PPG
 LEAD: Time _____ hrs. Type 60/40 Standard Cmt
4% gel Excess _____
 Amt. 170 Sks Yield 1.56 ft³/sk Density 13.5 PPG
 TAIL: Time _____ hrs. Type _____
 Excess 100%
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER Lead 5.2 Gal/sk Tail _____ Gal/sk Total 12 BBLs

4 1/2 16.6# Drillpipe

Casing Depths Top 0 Bottom 1746

Pump Trucks Used: 869-841
 Bulk Equipment _____

Drill Pipe: BBLS/LIN. FT 0.01422 LIN. FT/BBL _____
 Open Hole: BBLS/LIN. FT 0.044 LIN. FT/BBL _____
 Capacity Factors: BBLS/LIN. FT _____ LIN. FT/BBL _____
 Casing BBLS/LIN. FT _____ LIN. FT/BBL _____
 Open Holes BBLS/LIN. FT _____ LIN. FT/BBL _____
 Drill Pipe BBLS/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLS/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

Float Equipment: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Bottom _____
 Stage Collars _____
 Special Equipment _____
 Disp: Fluid Type WBM / H2O Amt _____ bbls Weight _____ PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER Edgar Rodriguez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
5:00 a						Got to location & spotted trucks
5:15						Rigged Up Trucks
6:40						Performed pre-job safety meeting
6:52	30		14		3.5	Pump 50 sks of cmt (14 bbls @13.5) Plug @1770 ft
6:59	30		22		3.5	Pump 22 bbls of displacement with mud
7:08						Shutdown / Come out of hole with drillpipe
7:57	30		14		3.5	Pump 50 sks of cmt (14 bbls @13.5) Plug @664 ft
8:02	30		6		3.5	Pump 6 bbls of displacement with fresh water
8:05						Shutdown / Come out of hole with drillpipe
8:32	50		6		3.5	Pump 20 sks of cmt (6 bbls @13.5) Plug @63 ft
8:36						Shutdown / Come out of hole with drillpipe
8:57	70		8		3.5	Pump 30 sks of cmt (8 bbls @13.5) For Rat Hole
9:00						Shutdown / Come out of hole with drillpipe
9:04	70		6		3.5	Pump 20 sks of cmt (6 bbls @13.5) For Mouse Hole
9:11						Shutdown
9:12						End job
9:15						Performed post-job safety meeting
9:20						Rigged down
10:30 a						Leave location

FINAL DISP. PRESS. NA PSI BUMP PLUG TO NA PSI BLEEDBACK NA BBLs **THANK YOU**



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Inc**
PO Box 399
Garden City, KS 67846

ATTN: Wyatt Urban

UPC #23-7

23-32-37w Stevens,KS

Start Date: 2014.01.30 @ 14:35:32
End Date: 2014.01.30 @ 23:55:32
Job Ticket #: 56622 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.05 @ 10:01:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palmer Oil Inc
 PO Box 399
 Garden City, KS 67846
 ATTN: Wyatt Urban

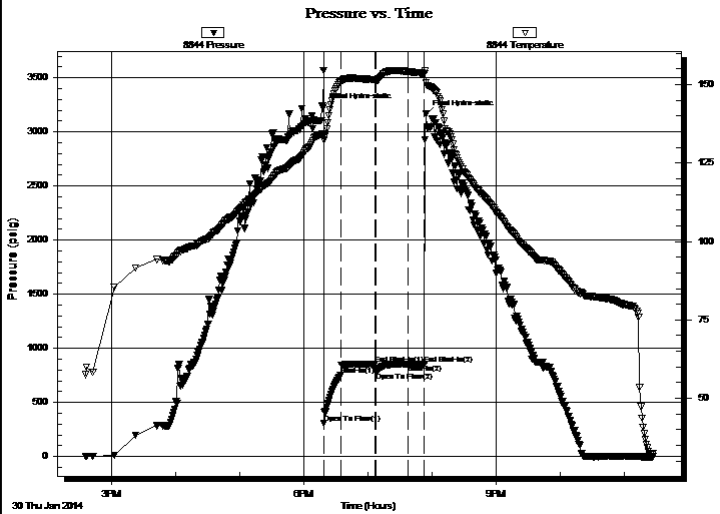
23-32-37w Stevens,KS
UPC #23-7
 Job Ticket: 56622 **DST#: 1**
 Test Start: 2014.01.30 @ 14:35:32

GENERAL INFORMATION:

Formation: **St Louis**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 18:18:17
 Time Test Ended: 23:55:32
 Interval: **6345.00 ft (KB) To 6421.00 ft (KB) (TVD)**
 Total Depth: 6421.00 ft (KB) (TVD)
 Hole Diameter: 6.75 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3133.00 ft (KB)
 3121.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8844 Outside
 Press@RunDepth: 855.37 psig @ 6346.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.30 End Date: 2014.01.30 Last Calib.: 2014.01.30
 Start Time: 14:35:32 End Time: 23:26:32 Time On Btm: 2014.01.30 @ 18:17:32
 Time Off Btm: 2014.01.30 @ 19:54:02

TEST COMMENT: Slid tool 15' to bottom B.O.B. in 1 min
 No return
 B.O.B. in 6 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3220.74	133.64	Initial Hydro-static
1	307.51	132.33	Open To Flow (1)
17	749.89	151.02	Shut-In(1)
49	852.14	151.49	End Shut-In(1)
50	783.86	151.44	Open To Flow (2)
80	855.37	154.17	Shut-In(2)
95	855.45	153.55	End Shut-In(2)
97	3162.74	150.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1323.00	water 100%w	16.88
189.00	s m c w 10% m 90% w	2.65
252.00	m c w 35% m 65% w	3.53

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil Inc
PO Box 399
Garden City, KS 67846
ATTN: Wyatt Urban

23-32-37w Stevens,KS
UPC #23-7
Job Ticket: 56622 **DST#: 1**
Test Start: 2014.01.30 @ 14:35:32

Tool Information

Drill Pipe:	Length: 6156.00 ft	Diameter: 3.80 inches	Volume: 86.35 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: 25000.00 lb
Drill Collar:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 115000.0 lb
			<u>Total Volume: 87.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	6345.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			6318.00	
Shut In Tool	5.00			6323.00	
Hydraulic tool	5.00			6328.00	
Jars	5.00			6333.00	
Safety Joint	3.00			6336.00	
Packer	5.00			6341.00	28.00 Bottom Of Top Packer
Packer	4.00			6345.00	
Stubb	1.00			6346.00	
Recorder	0.00	6771	Inside	6346.00	
Recorder	0.00	8844	Outside	6346.00	
Perforations	5.00			6351.00	
Change Over Sub	1.00			6352.00	
Drill Pipe	63.00			6415.00	
Change Over Sub	1.00			6416.00	
Bullnose	5.00			6421.00	76.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil Inc
PO Box 399
Garden City, KS 67846
ATTN: Wyatt Urban

23-32-37w Stevens,KS
UPC #23-7
Job Ticket: 56622 **DST#: 1**
Test Start: 2014.01.30 @ 14:35:32

Mud and Cushion Information

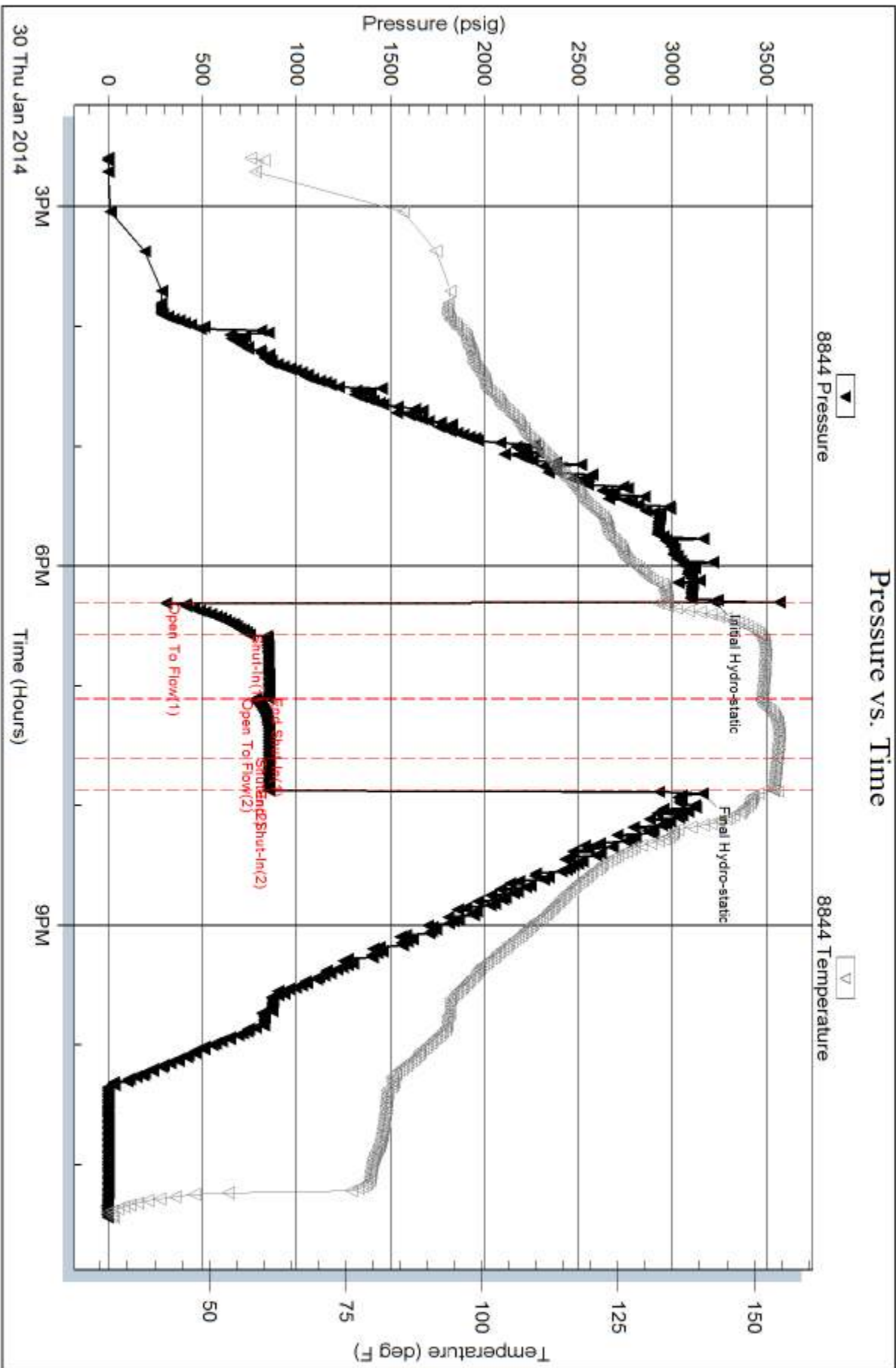
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 49000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1323.00	water 100%w	16.882
189.00	s m c w 10%m 90%w	2.651
252.00	m c w 35%m 65%w	3.535

Total Length: 1764.00 ft Total Volume: 23.068 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .297 @ 30*f= 49,000 chllor



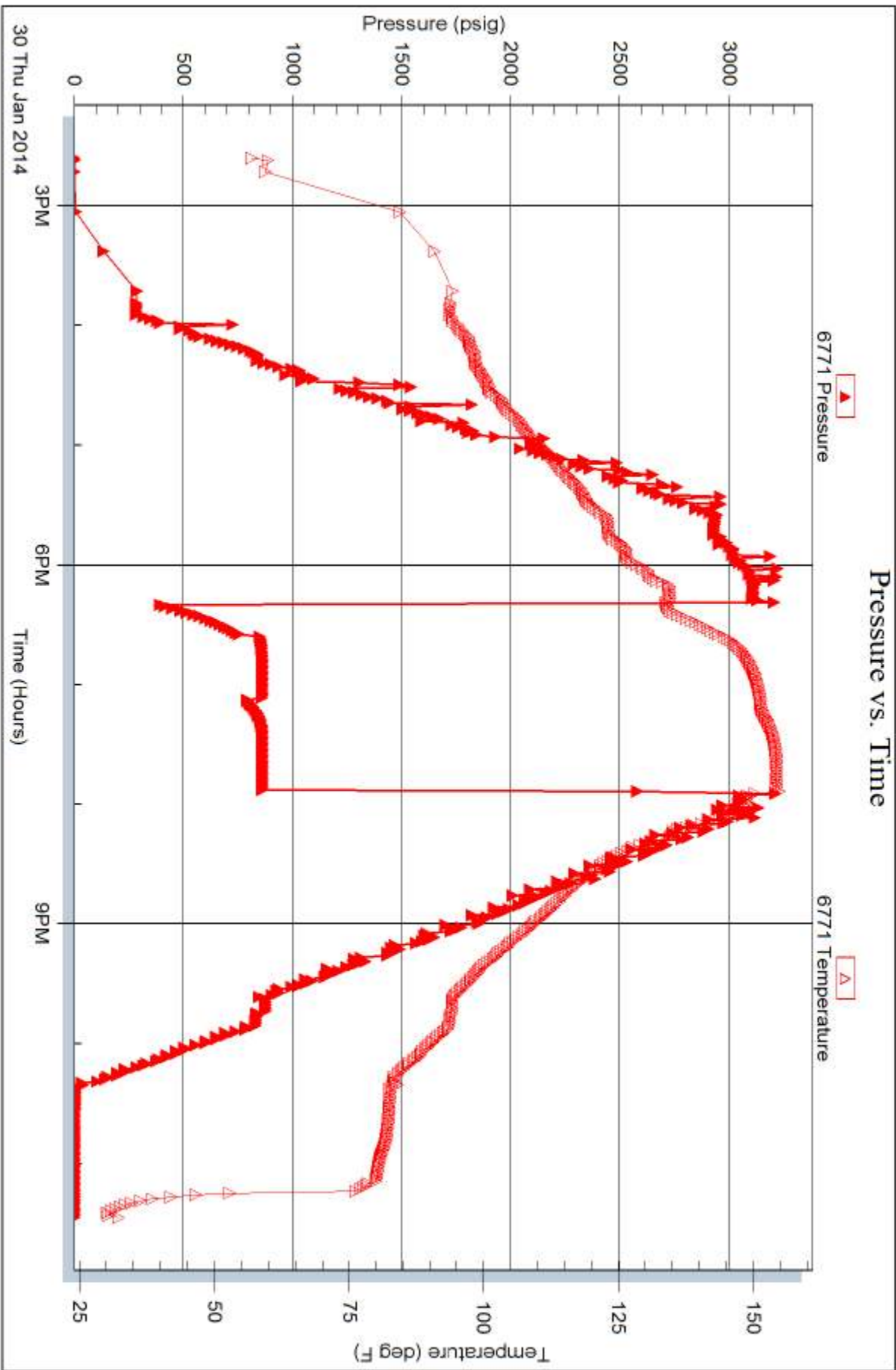
Serial #: 6771

Inside

Palmer Oil Inc

UPC #23-7

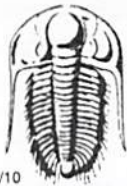
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56622

Printed: 2014.02.05 @ 10:01:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56622

Well Name & No. UPC #23-7 Test No. #1 Date 1/30/14
 Company Palmer Oil Inc Elevation 3133 KB 3121 GL
 Address 3118 N Cummings Rd, Garden City, KS 67846
 Co. Rep / Geo. Wyatt Urban Rig Duke #9
 Location: Sec. 23 Twp. 32 Rge. 37W Co. Sevens State KS

Interval Tested 6345 6421 Zone Tested St. Louis
 Anchor Length 76 Drill Pipe Run 6150 Mud Wt. 9.3
 Top Packer Depth 6340 Drill Collars Run 184' Vis 52
 Bottom Packer Depth 6345 Wt. Pipe Run --- WL 8.8
 Total Depth 6421 Chlorides 1200 ppm System LCM #1

Blow Description Slide tool 15' to bottom. B.O.B. in 1min
No return
B.O.B. in 5min.
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>mcw</u>		<u>65</u>	<u>35</u>	
<u>189</u>	<u>smcw</u>		<u>90</u>	<u>10</u>	
<u>1323</u>	<u>water</u>		<u>100</u>		

Rec Total 1764' BHT 154° Gravity --- API RW 277 @ 30° F Chlorides 19,000 ppm

(A) Initial Hydrostatic 3220 Test 1450 T-On Location 13:40
 (B) First Initial Flow 307 Jars 250 T-Started 14:35
 (C) First Final Flow 749 Safety Joint 75 T-Open 18:20
 (D) Initial Shut-In 852 Circ Sub _____ T-Pulled 19:50
 (E) Second Initial Flow 783 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 855 Mileage 222 RT 344.10 Comments _____
 (G) Final Shut-In 855 Sampler _____
 (H) Final Hydrostatic 3162 Straddle _____ Ruined Shale Packer _____

Initial Open 15 Ruined Packer X2 640
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 15 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 2759.10
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2119.10

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 CORPORATION
Clafin, Kansas

NOTES

Company: Palmer Oil, Inc.

Lease: UPC 23-7

Field: Willis

Location: NE-SW-SE-SW (335' FSL & 1700' FWL)

Sec: 23 Twsp: 32S Rge: 37W

County: Stevens State: Kansas

KB: 3133' GL: 3120'

API #: 15-189-22831-00-00

Contractor: Duke Drilling Inc. (Rig #9)

Spud: 01/23/2014 Comp: 01/31/2014

RTD: 6521' LTD: 6524'

Mud Up: 4500' Type Mud: Chemical

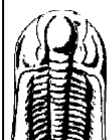
Samples Saved From: 4600' to RTD
 Drilling Time Kept From: 4100' to RTD
 Samples Examined From: 4600' to RTD
 Geological Supervision from: 4600' to RTD
 Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@1746'

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

Palmer Oil, Inc. well comparison sheet

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Palmer Oil- UPC 23-7 NE-SW-SE-SW 23-32S-37W				EOG Resources- UPC 23-2 SE-SW-NW-SW 23-32S-37W				EOG Resources - 23-1 Willis W2-SE-NW-SE 23-32S-37W			
	3133 KB				3123 KB				3122 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
B. Heebner	4144	-1011	4144	-1011	4145	-1022	11	11	4147	-1025	14	14
Lansing	4263	-1130	4263	-1130	4263	-1140	10	10				
Marmaton	4921	-1788	4932	-1799	4923	-1800	1	1	4948	-1826	38	27
Cherokee	5119	-1986	5122	-1989	5120	-1997	8	8	5121	-1999	13	10
Morrow	5636	-2503	5644	-2511	5638	-2515	4	4	5636	-2514	11	3
St. Gen.	6209	-3076	6213	-3080								
St. Louis	6310	-3177	6312	-3179					6356	-3234	57	55
St. Louis B	6390	-3257	6394	-3261								
RTD	6521	-3388	6521	-3388	6500	-3377	-11	-11	6590	-3468	80	80
LTD	6524	-3391	6524	-3391								



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palmer Oil Inc

23-32-37w Stevens, Ks

3118 N Cummings Rd
Garden City, Ks

UPC #23-7

Job Ticket: 56602

DST#: 1



67846
ATTN: Wyatt Urban

Job Ticket: 50022
DST#: 1
Test Start: 2014.01.30 @ 14:35:32

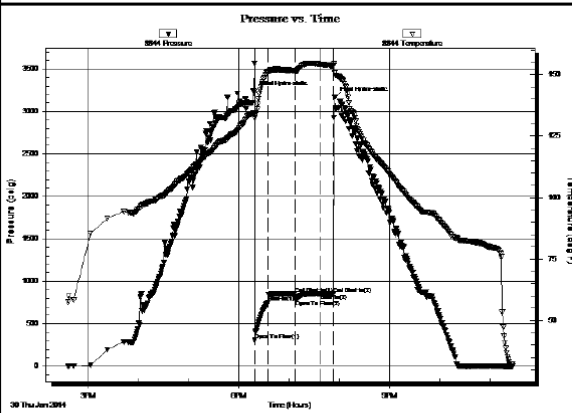
GENERAL INFORMATION:

Formation: **St Louis**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 18:18:17
 Time Test Ended: 23:55:32
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Interval: **6345.00 ft (KB) To 6421.00 ft (KB) (TVD)**
 Total Depth: 6421.00 ft (KB) (TVD)
 Hole Diameter: 6.75 inches-Hole Condition: Poor
 Reference Elevations: 3133.00 ft (KB)
 3121.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8844 Outside

Press@RunDepth: 855.37 psig @ 6346.00 ft (KB)
 Start Date: 2014.01.30 End Date: 2014.01.30
 Start Time: 14:35:32 End Time: 23:26:32
 Capacity: 8000.00 psig
 Last Calib.: 2014.01.30
 Time On Btm: 2014.01.30 @ 18:17:32
 Time Off Btm: 2014.01.30 @ 19:54:02

TEST COMMENT: Slid tool 15' to bottom B.O.B. in 1 min
 No return
 B.O.B. in 6 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3220.74	133.64	Initial Hydro-static
1	307.51	132.33	Open To Flow (1)
17	749.89	151.02	Shut-in(1)
49	852.14	151.49	End Shut-in(1)
50	783.86	151.44	Open To Flow (2)
80	855.37	154.17	Shut-in(2)
95	855.45	153.55	End Shut-in(2)
97	3162.74	150.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1323.00	w ater 100%w	16.88
189.00	s m c w 10%m 90%w	2.65
252.00	m c w 35%m 65%w	3.53

Gas Rates

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

ROCK TYPES

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

ACCESSORIES

FOSSIL

φ Oolite

OTHER SYMBOLS

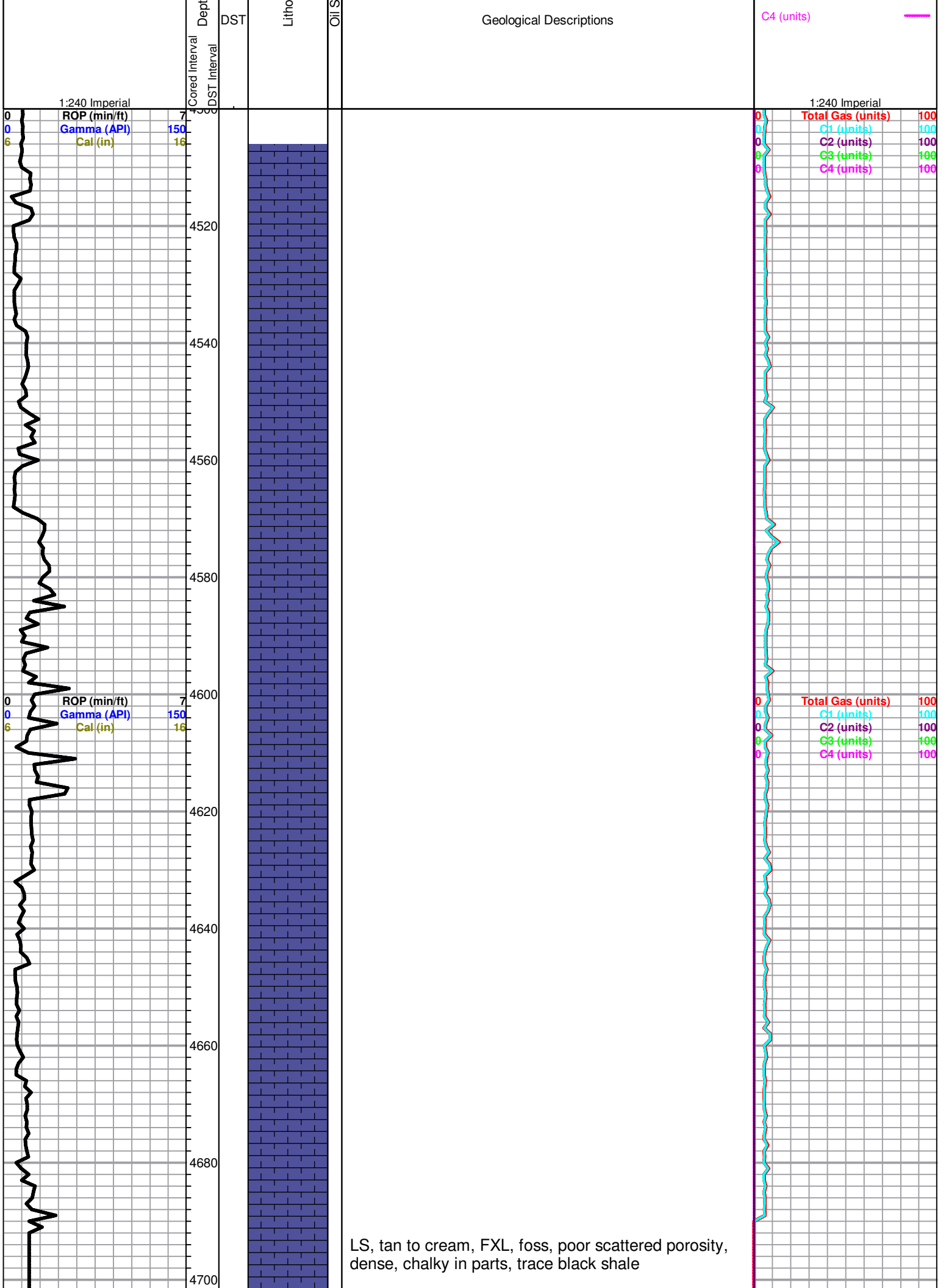
Oil Show

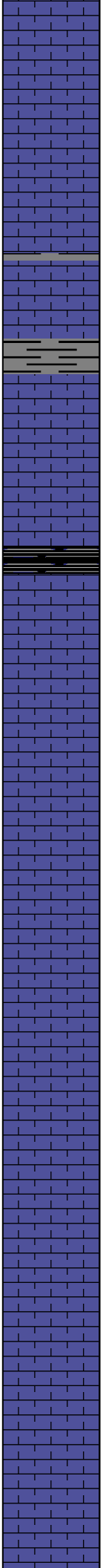
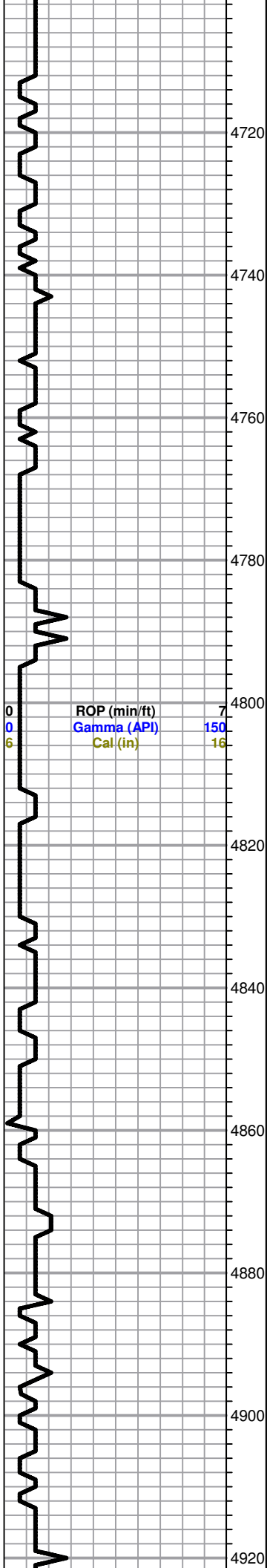
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

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





LS ,cream to tan, FXL, few foss, poor visible porosity, chalky

Sh. gray, maroon, silty

Black carb Sh.

LS, cream to tan, FXL, foss, chalky, poor visible porosity, trace white chert

LS, gray, mottled, FXL, poor visible porosity, chalky, trace black sh.

LS, tan, oom, fair vuggy porosity, calky, no shows

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

Marmaton 4921 (-1788)

LS, cream to tan, FXL, few foss, poor visible porosity, dense, chalky in parts, trace, LS, brown FXL, dense, cherty no shows

LS, gray to tan, F-MXL, dense, poor visible porosity, trace gray sand, F.grained, well sorted, no shows

LS, cream to tan, ool, poorly developed, in parts, fair vuggy porosity, in parts, no shows,

LS, gray, mottled, FXL, chalky, poor visible porosity, no shows, trace maroon shale, no shows

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

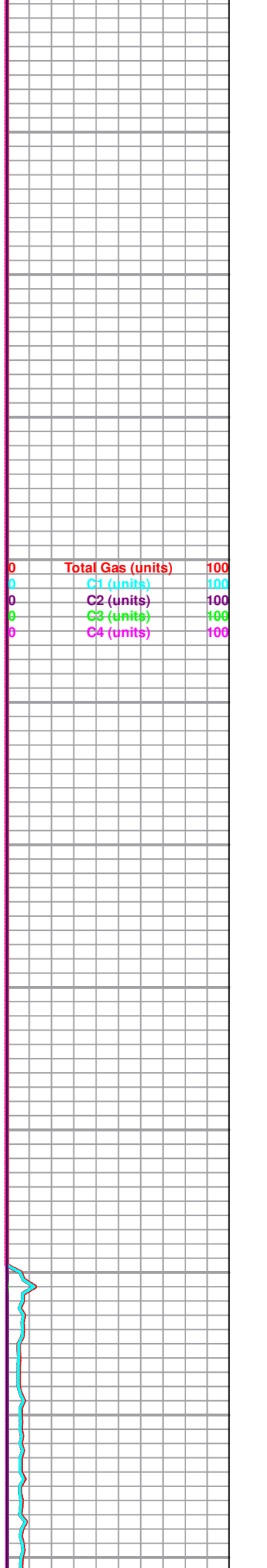
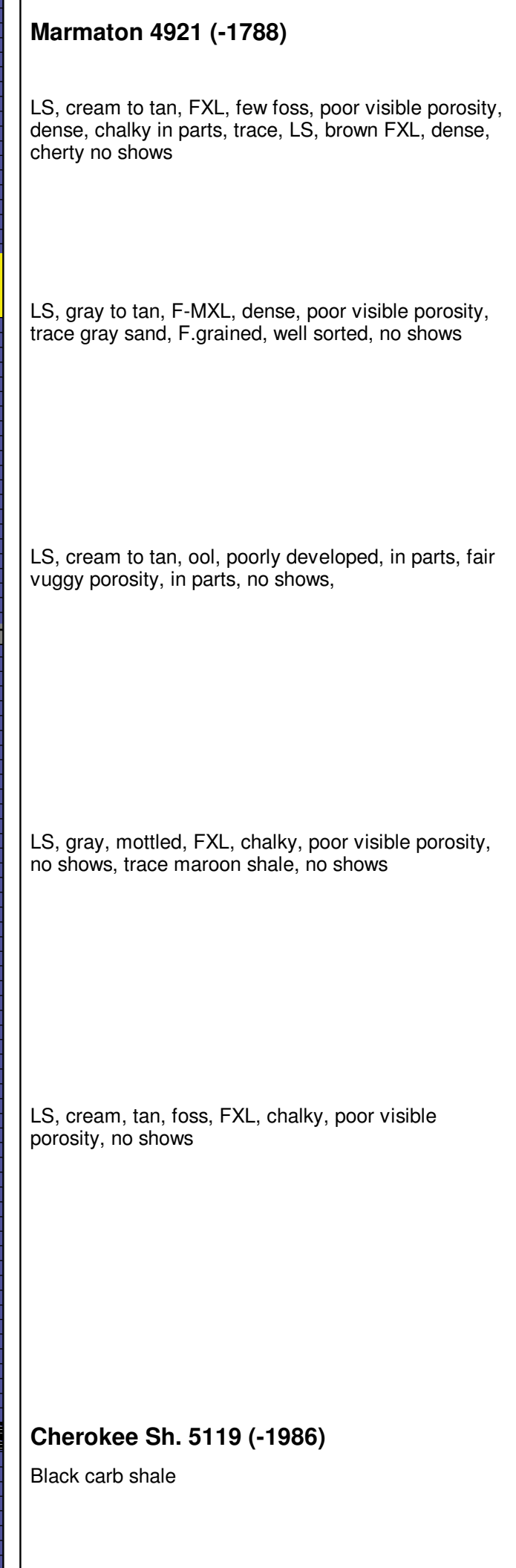
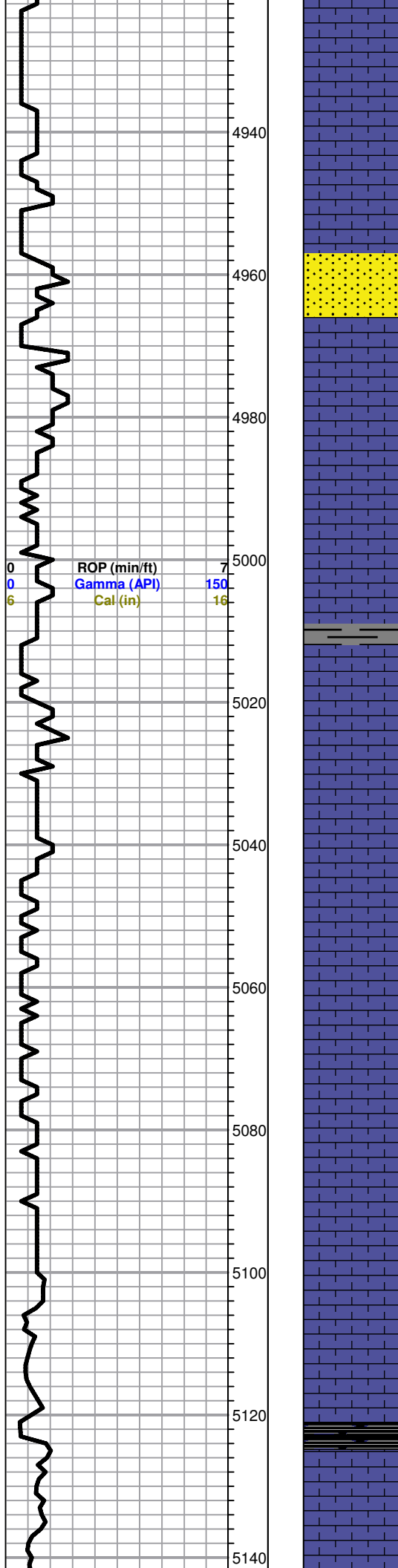
Cherokee Sh. 5119 (-1986)

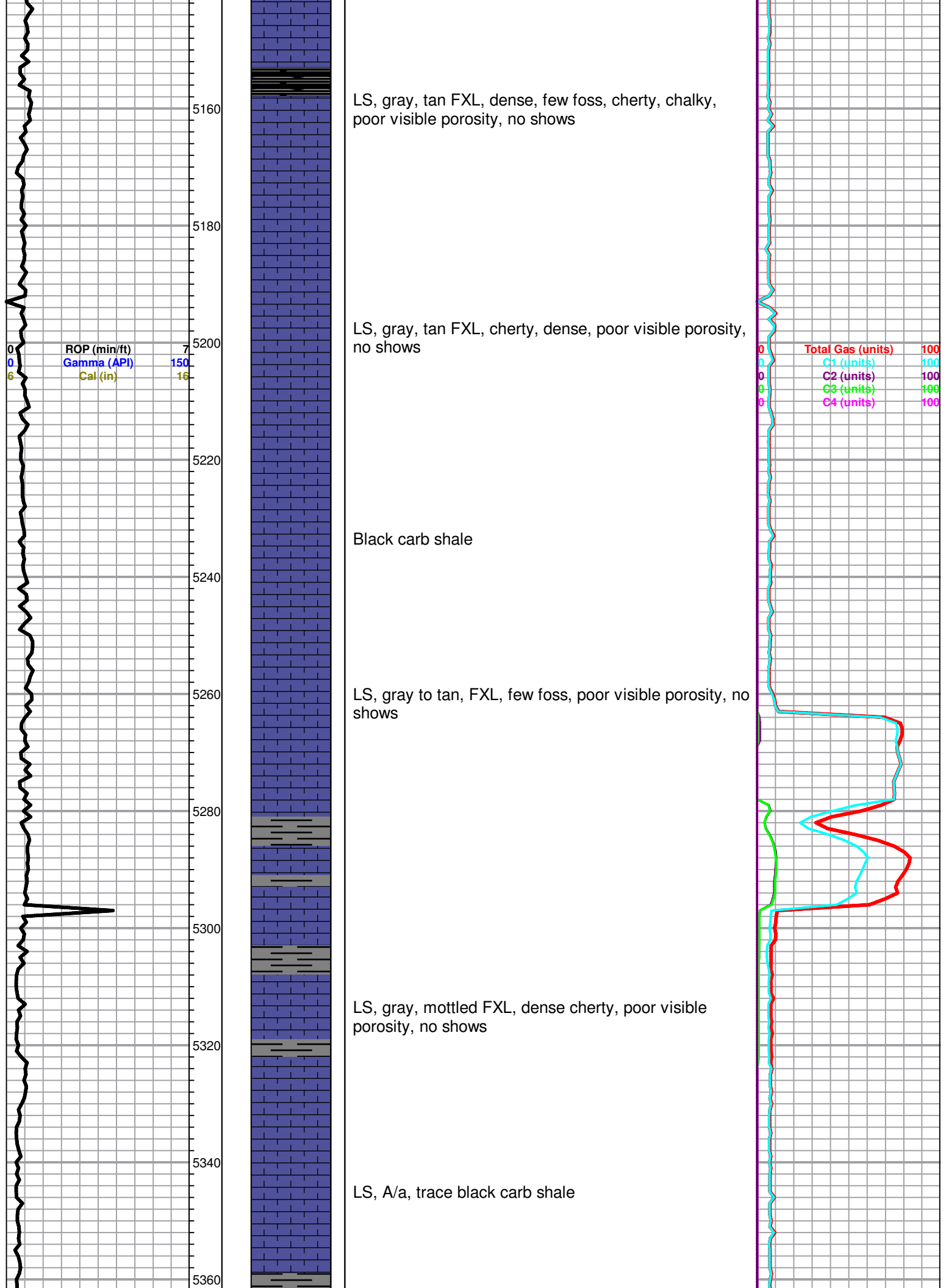
Black carb shale

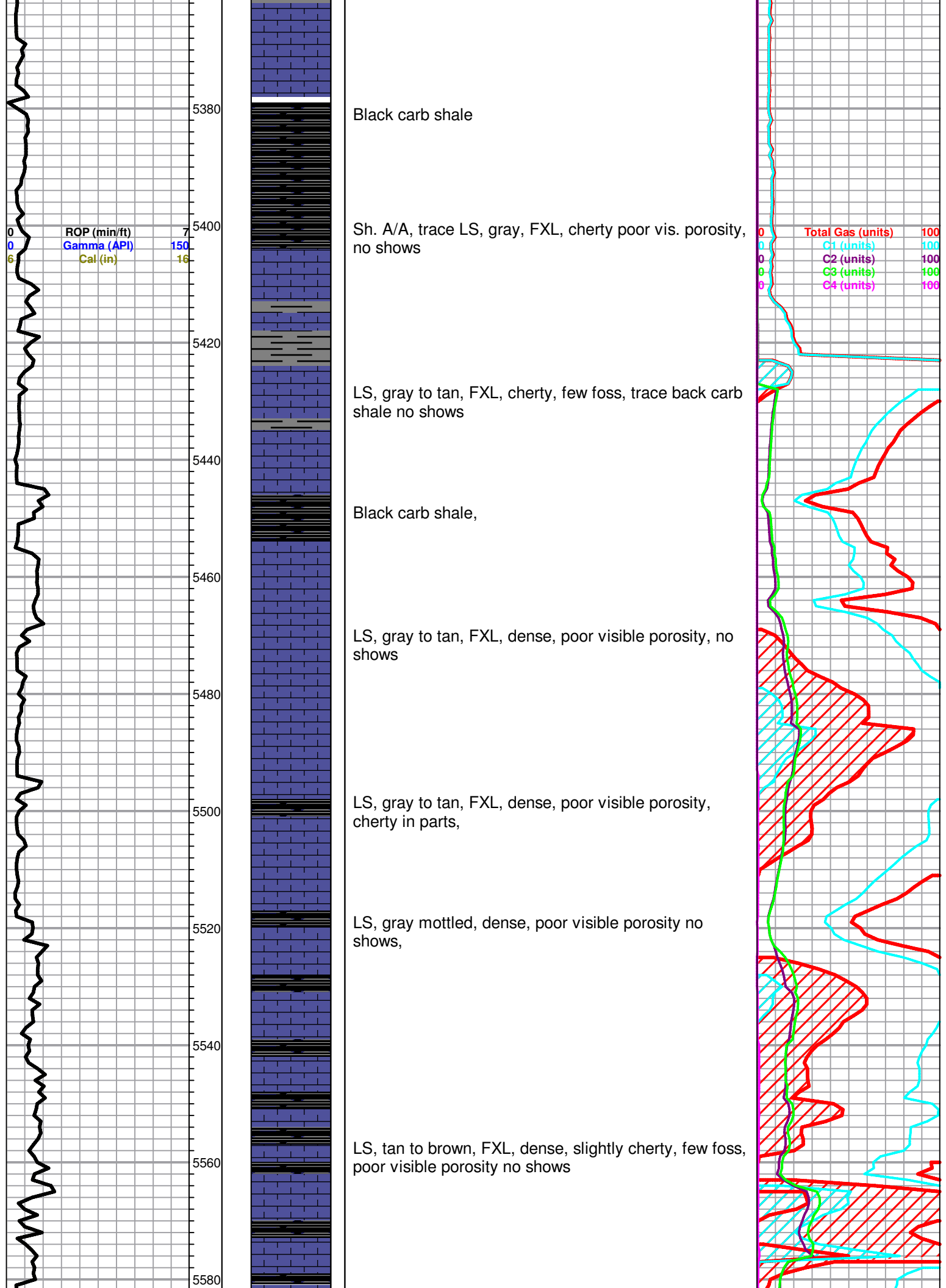
4940
4960
4980
5000
5020
5040
5060
5080
5100
5120
5140

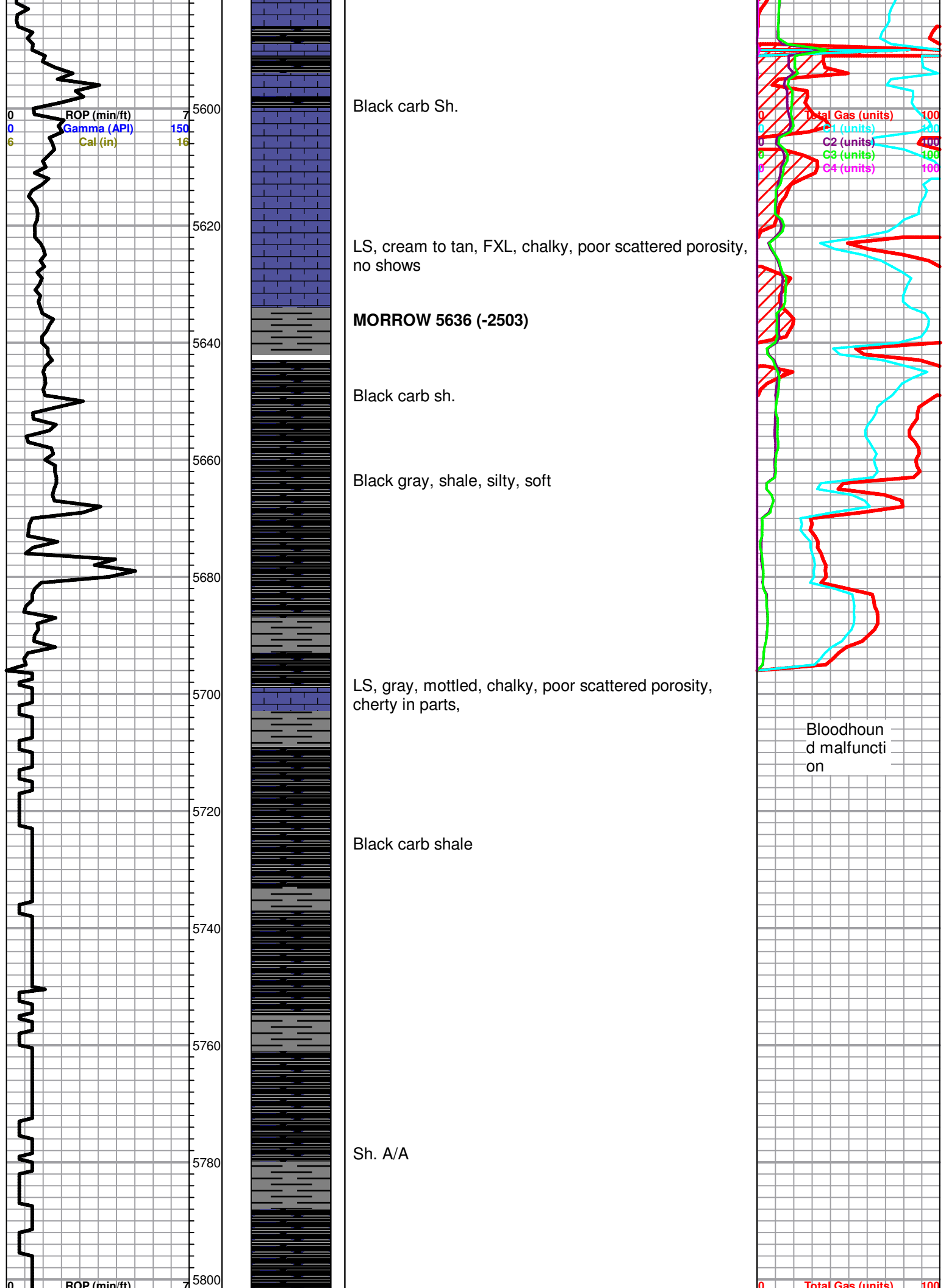
ROP (min/ft) 7
Gamma (API) 150
Cal (in) 16

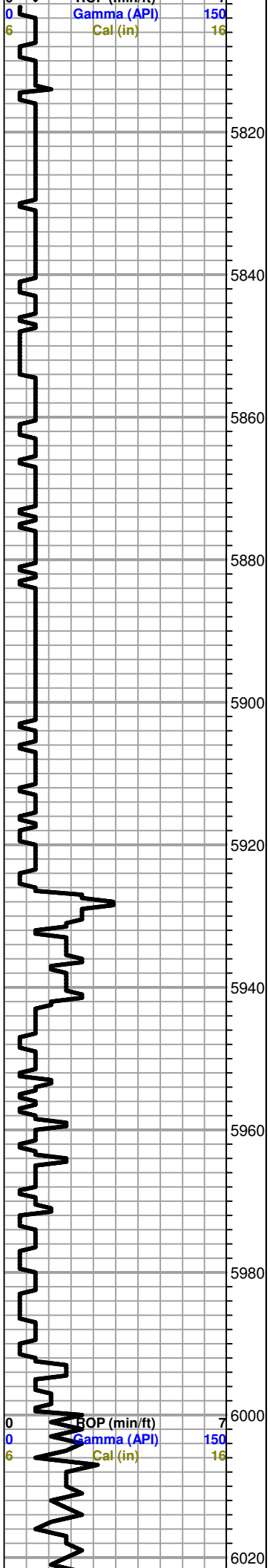
Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100









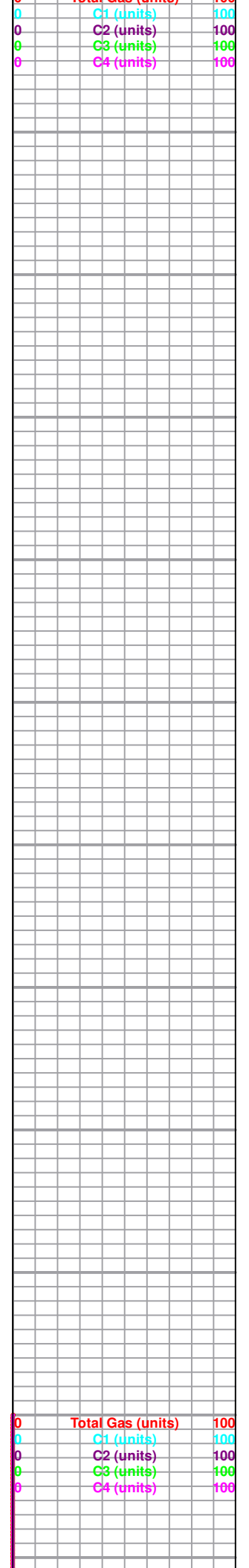


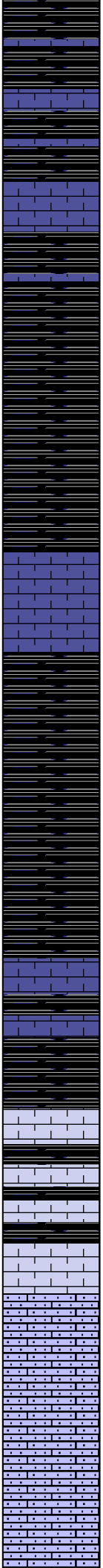
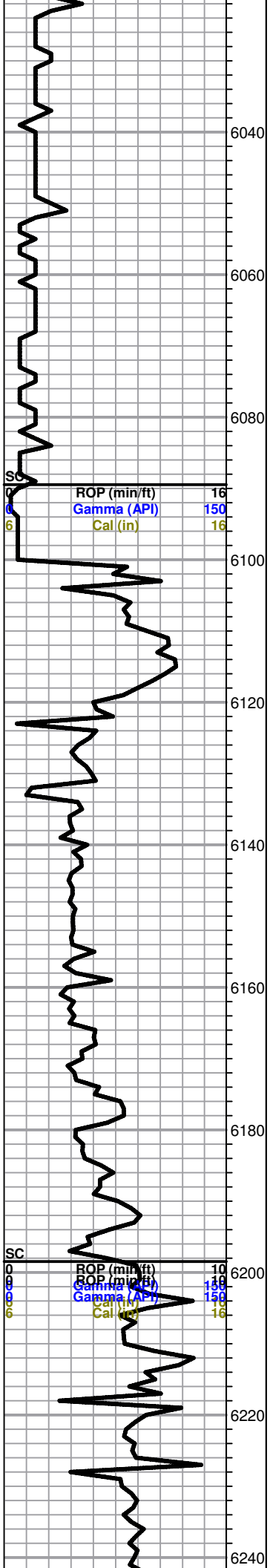
Sh. maroon, greenish, black carb

LS, gray, tan, mottled, chalky, black carb shale

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

Black carb Sh.





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

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

Sh. marron, black, gray, soft silty

Black carb shale

LS, white to cream, micro ool, friable, no shows

Ste. Gen 6209 (-3076)

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

Bit Trip 6100'
 Switch to reg. bit

