



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1164184
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: _____



1164184

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: 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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Laura 21-2
Doc ID	1164184

All Electric Logs Run


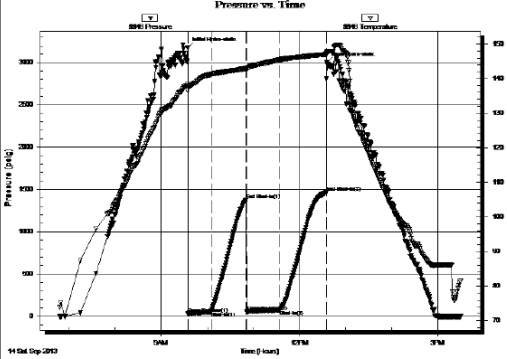
Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Laura 21-2
Doc ID	1164184

Tops


Name	Top	Datum
Lansing	4278'	-1130
Marmaton	4926'	-1778
Cherokee	5136'	-1988
Atoka	5549'	-2401
Morrow	5660'	-2512
St.Gen	6189'	-3041
St.Louis	6349'	-3201
B	6391'	-3243
C	6422'	-3274

LTD	6538	-3390																		

	DRILL STEM TEST REPORT											
	Palmer Oil, Inc. 3118 N. Cummings Rd. Garden City KS 67846 ATTN: Wyatt Urban	21-32-37 Stevens Co KS Laura 21-2 Job Ticket: 52917 DST#: 1 Test Start: 2013.09.14 @ 06:48:15										
GENERAL INFORMATION:												
Formation: St. Louis Deviated: No Whipstock ft (KB) Time Tool Opened: 09:34:30 Time Test Ended: 15:30:00 Test Type: Conventional Bottom Hole (Initial) Tester: Mike Roberts Unit No: 65 Interval: 6320.00 ft (KB) To 6394.00 ft (KB) (TVD) Total Depth: 6394.00 ft (KB) (TVD) Reference Elevations: 3148.00 ft (KB) Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 22.00 ft 3126.00 ft (CF)												
Serial #: 8846 Inside												
Press@RunDepth: 76.04 psig @ 6321.00 ft (KB) Capacity: 8000.00 psig Start Date: 2013.09.14 End Date: 2013.09.14 Last Callb.: 2013.09.14 Start Time: 06:48:15 End Time: 15:30:00 Time On Btm: 2013.09.14 @ 09:34:15 Time Off Btm: 2013.09.14 @ 12:35:30												
TEST COMMENT: IF:BOB in 19 min. IS:No return blow FF:BOB instantly FS:Built to 2" return blow												
	PRESSURE SUMMARY											
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation								
	0	3178.66	138.40	Initial Hydro-static								
	1	34.84	136.54	Open To Flow (1)								
	31	57.50	141.23	Shut-In(1)								
	76	1377.69	142.94	End Shut-In(1)								
	78	58.34	142.92	Open To Flow (2)								
	120	76.04	145.46	Shut-In(2)								
	181	1468.99	147.02	End Shut-In(2)								
	182	3006.19	147.66	Final Hydro-static								
Recovery		Gas Rates										
Length (ft)	Description	Volume (bbl)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">Choke (inches)</td> <td style="width: 15%;">Pressure (psig)</td> <td style="width: 55%;">Gas Rate (Mcf/d)</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)				
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)									
130.00	mud 100% m	0.64										
0.00	GP=868 feet	0.00										

Trilobite Testing, Inc
Ref. No: 52917
Printed: 2013.09.14 @ 22:52:27

ROCK TYPES

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

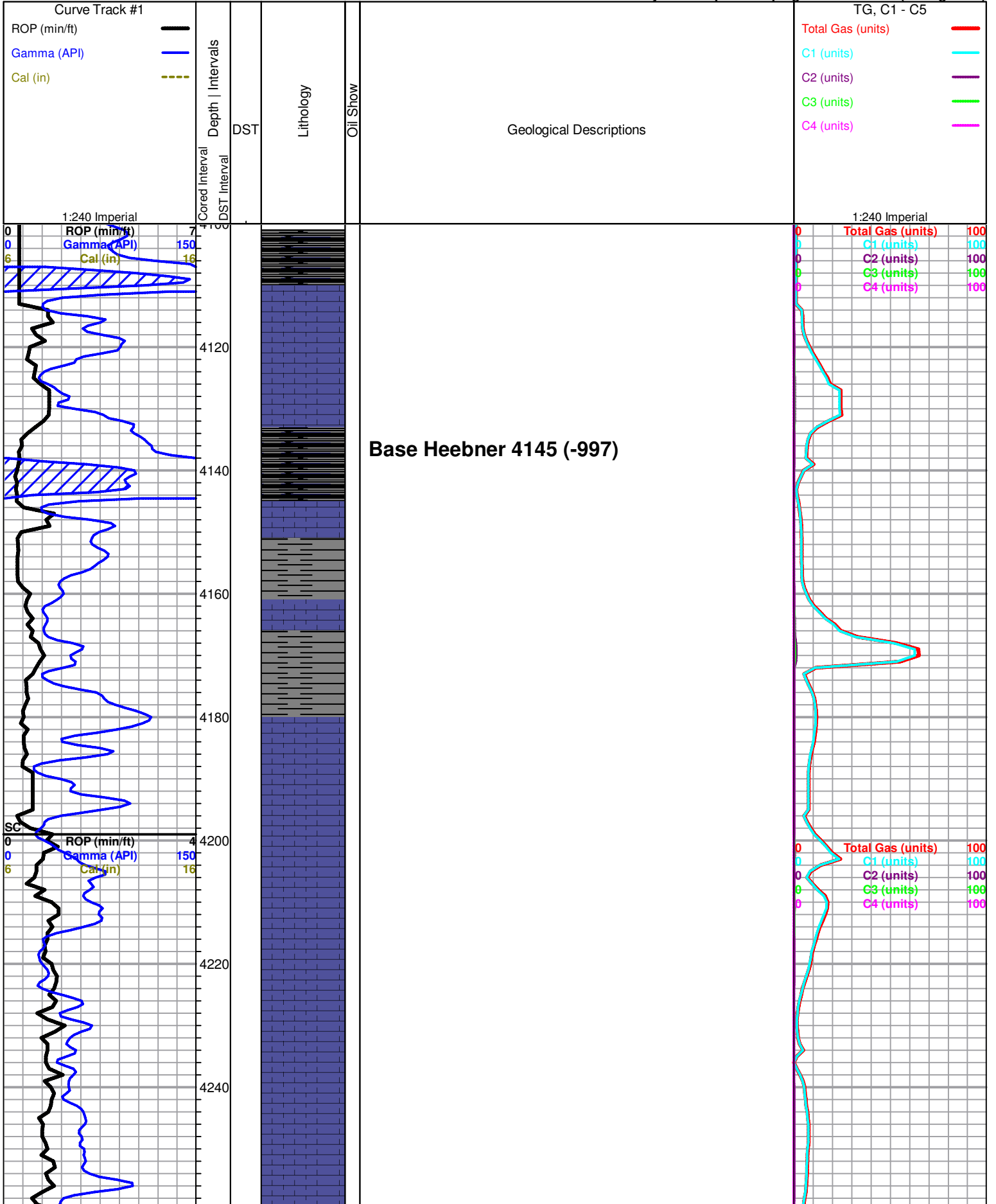
ACCESSORIES

- | | | | |
|----------------|---------------|---|----------------|
| MINERAL | FOSSIL | STRINGER | TEXTURE |
| P Pyrite | φ Oolite |  Limestone | C Chalky |
| | ⊕ Oomoldic |  Sandstone | FX Finexln |

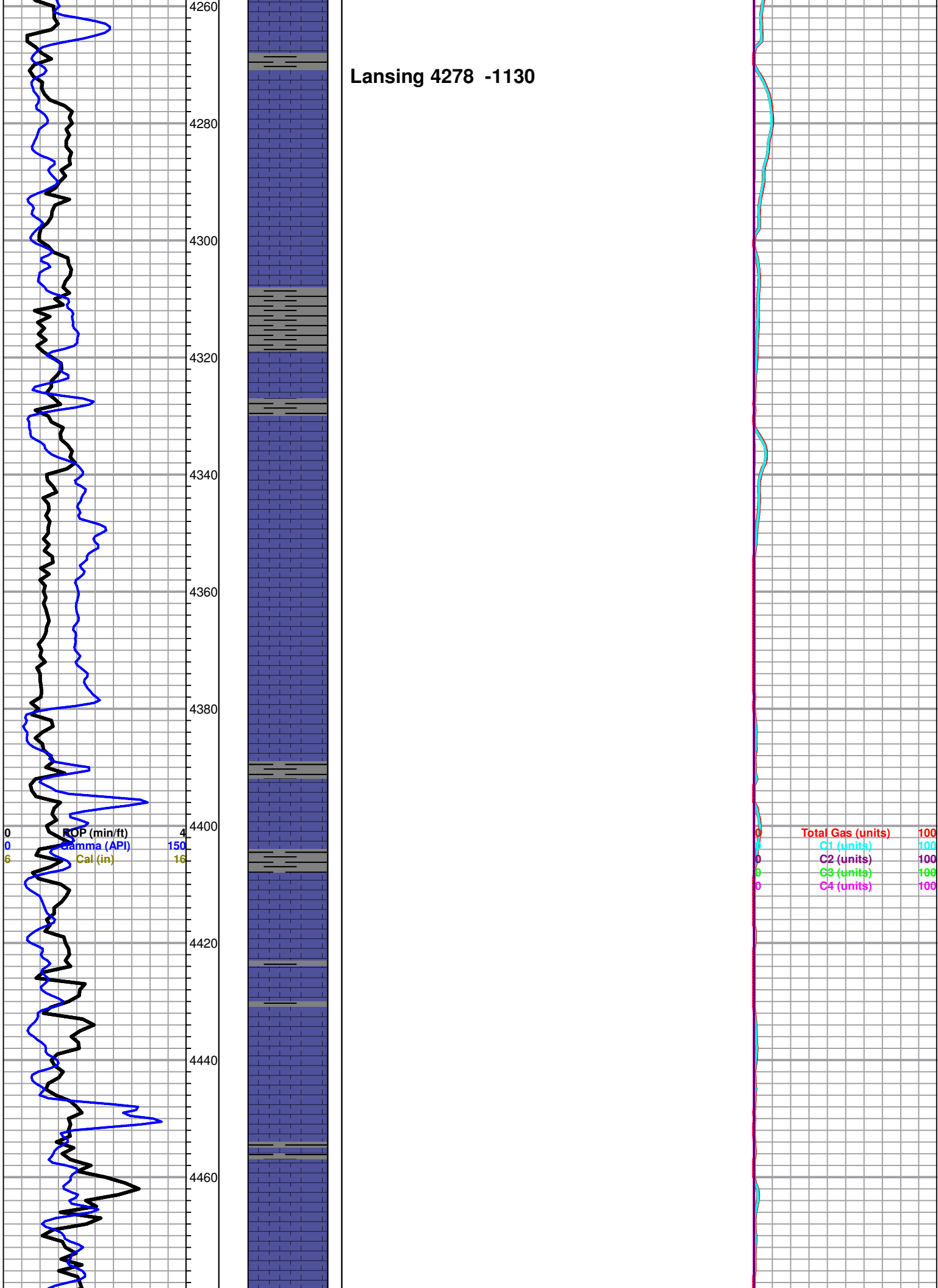
OTHER SYMBOLS

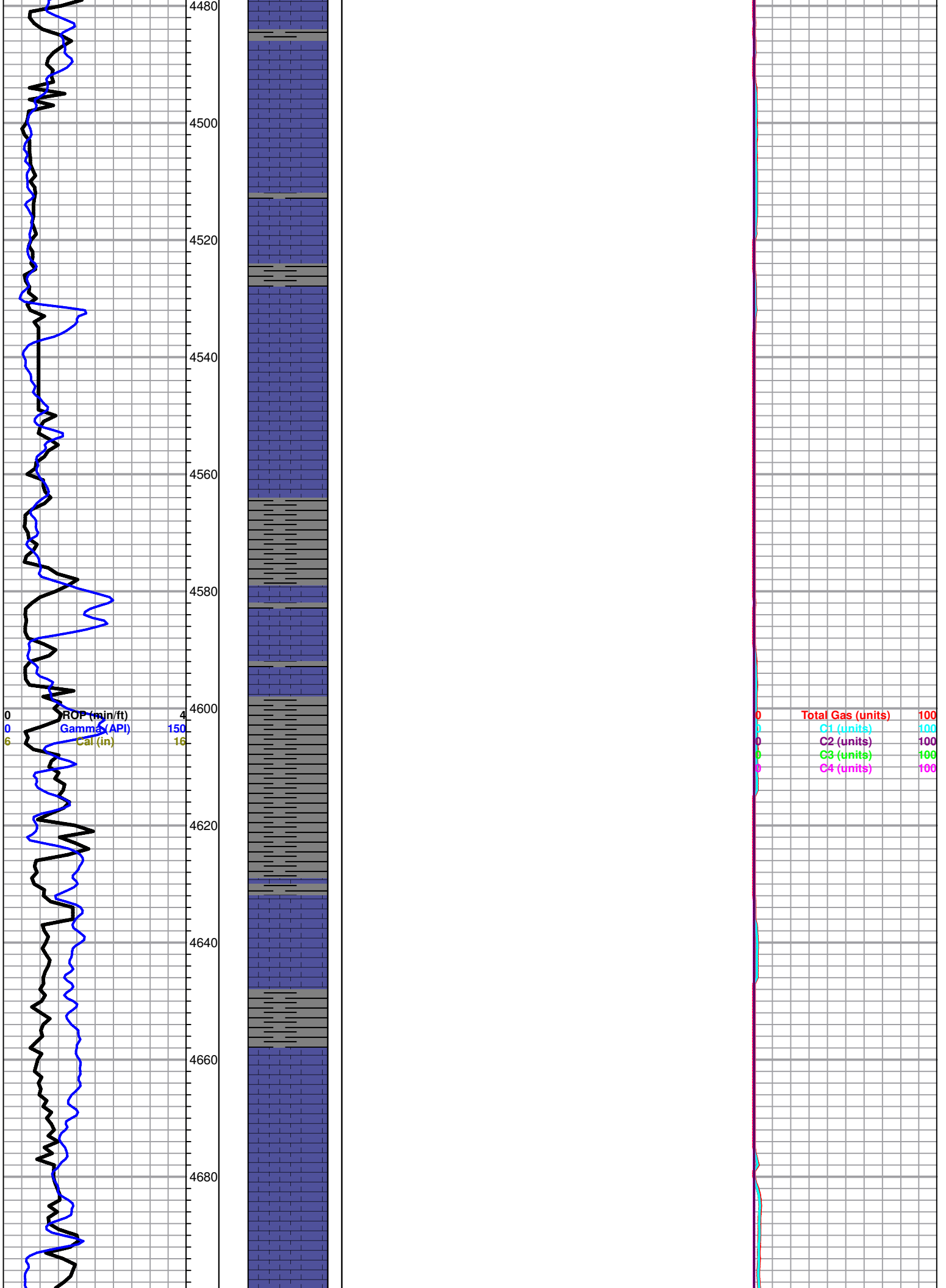
- | | |
|-----------------|------------|
| Oil Show | DST |
|-----------------|------------|

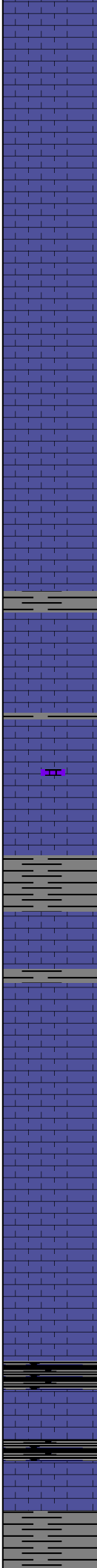
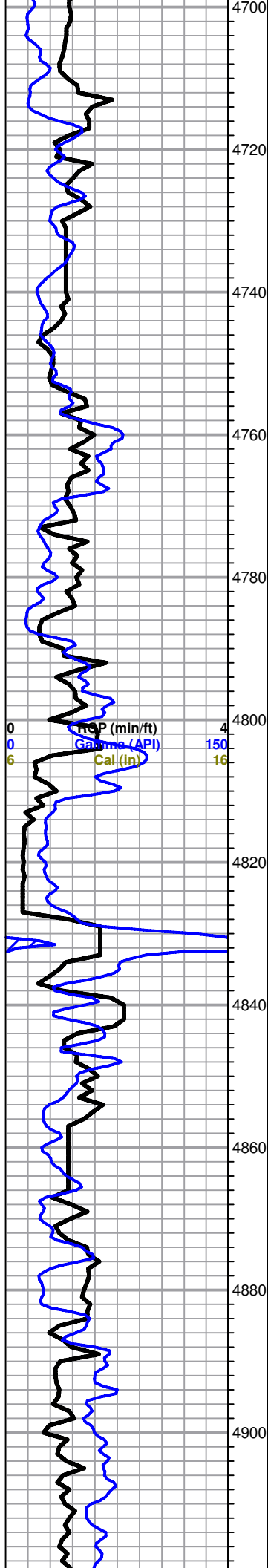
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- D Dead Oil Strn
- Fluorescence
- * Gas
- DST Int
- DST alt
- Core
- tail pipe



Lansing 4278 -1130







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

LS, A/A

LS, cream to gray, FXL, foss, with black, gray silty shale

LS, cream to tan, ool, good oomoldic porosity, slightly chalky, no shows

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

LS, cream to tan, FXL, fossiliferous, dense, no shows

LS, A/A

Shale black to gray no shows

4700
4720
4740
4760
4780
4800
4820
4840
4860
4880
4900

Marmaton 4932 -1784

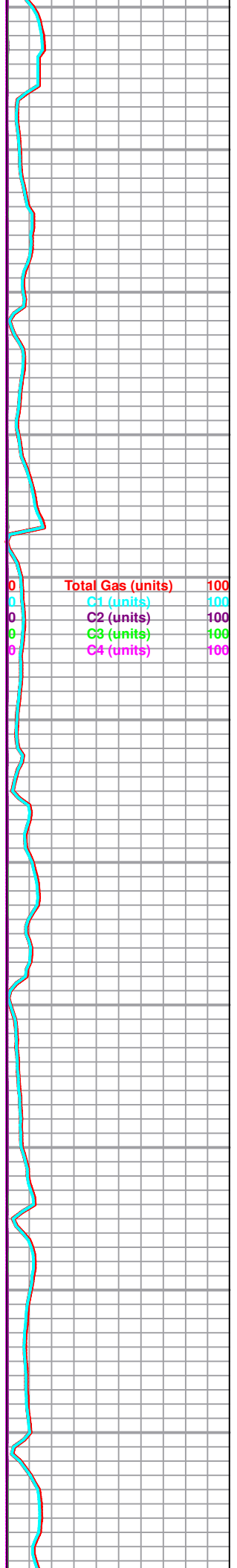
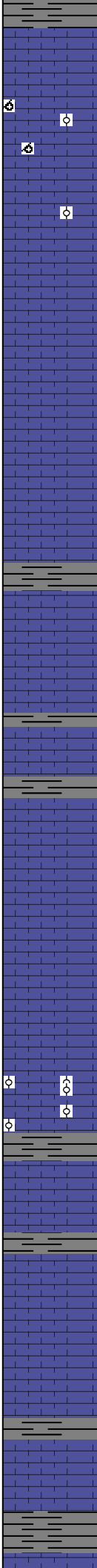
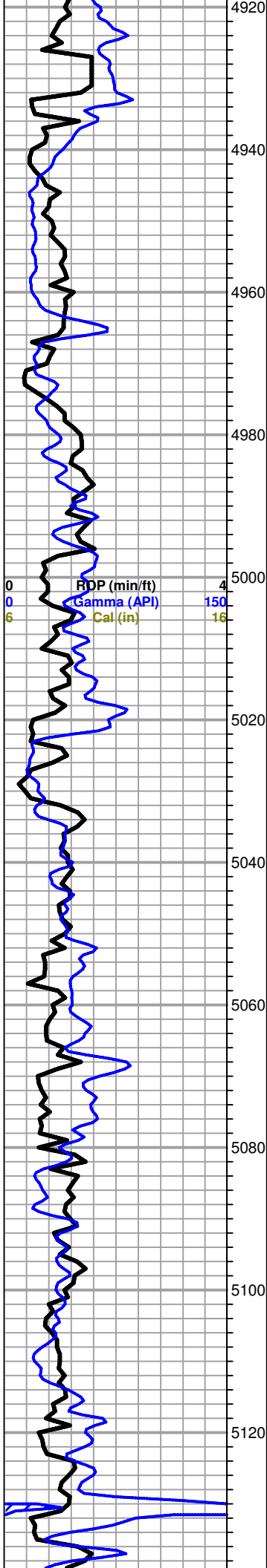
LS, tream to tan, Fxl, foss, chalky, poor visible porosity, no shows

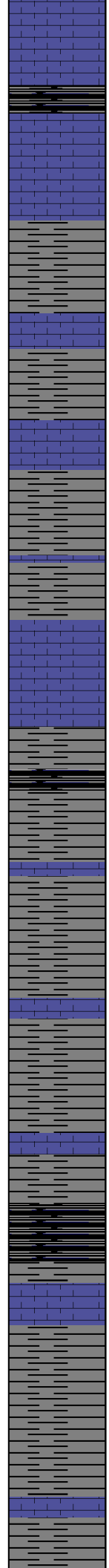
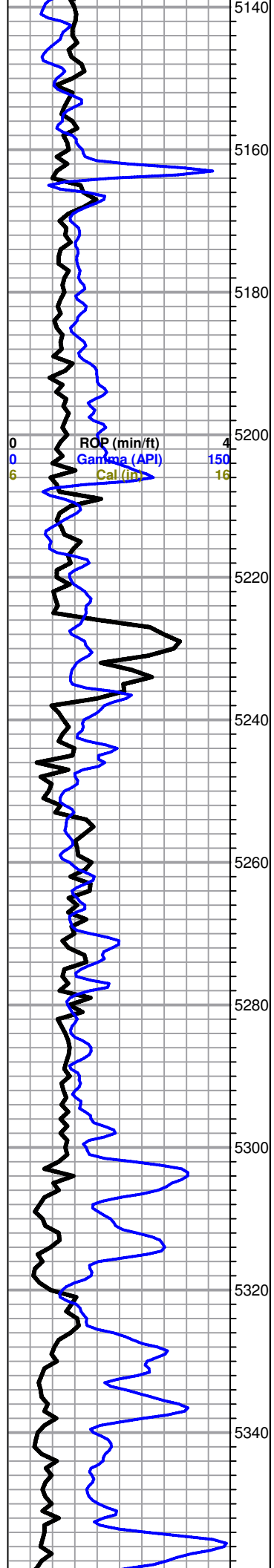
LS, tan, F-MXL, ool, poor oomoldic porosity, no shows

LS, tan to gray, FXL, poor visible porosity, dense, slightly cherty in places.

LS, tan, Ool, poor to fair oom porosity, no shows, no odor

LS, tan to brown, fxl , few foss, dense, slightly cherty, no shows, no odor





LS A/A

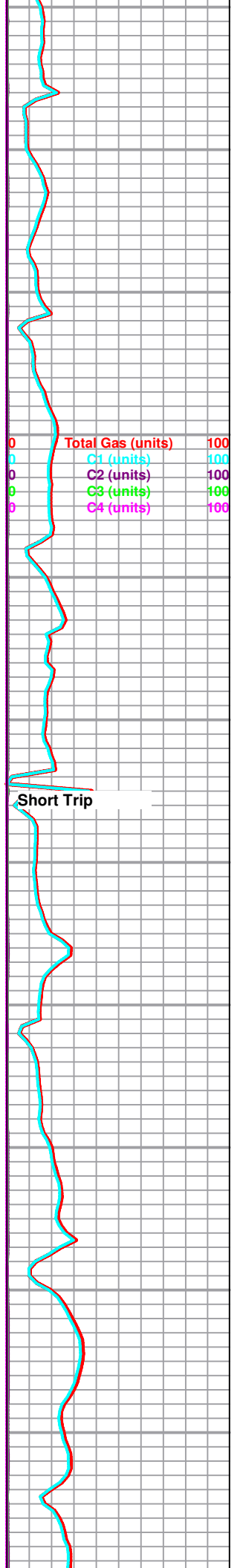
CHEROKEE SH. 5153 -2005

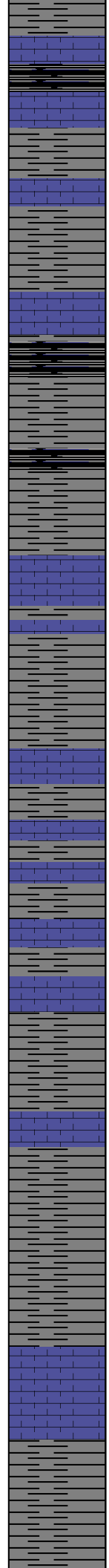
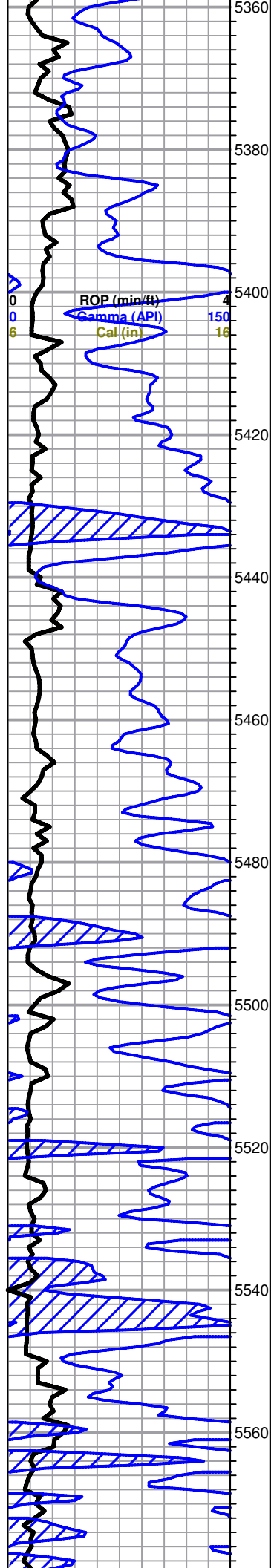
Sh, black to gray, traces of LS, tan, FXL, dns, no shows

Sh, black and gray, limey, some soft

Sh A/A

Sh, black to gray, silty, lime, some soft





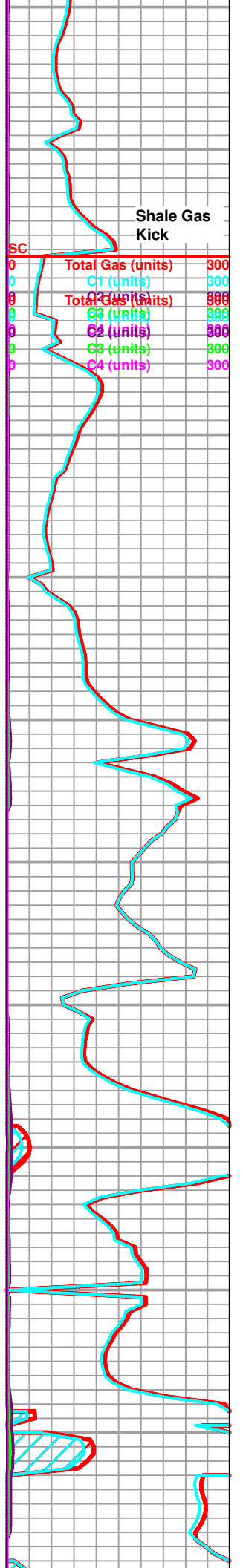
Black Carb Sh soft

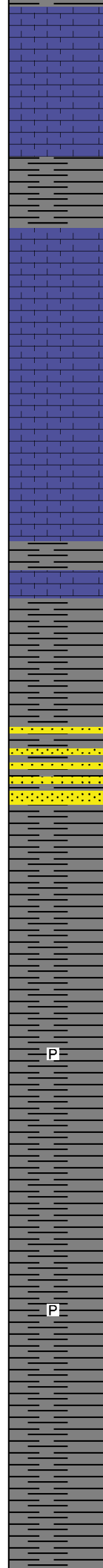
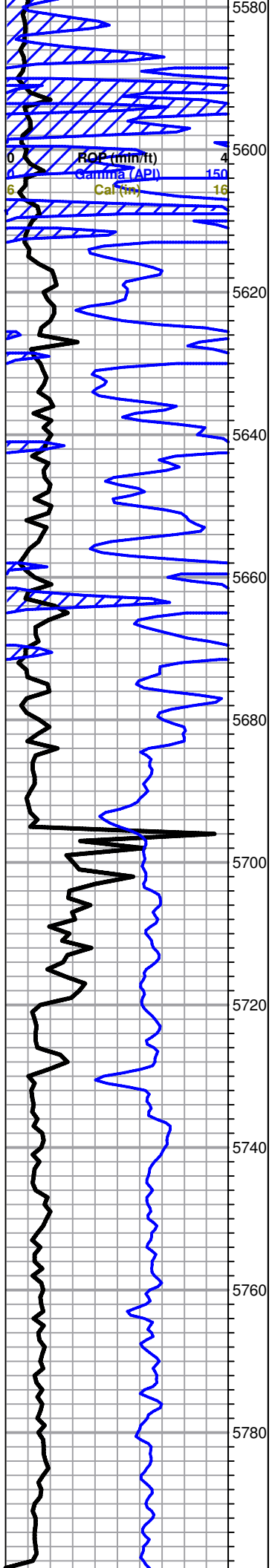
Sh. black to gray, limey, soft

Sh A/A

Atoka 5549 -2401

LS lt gray to tan, fxl poor vis porosity, few foss, cherty in places, no shows, no odor





LOG TOP MORROW 5660 (-2512)

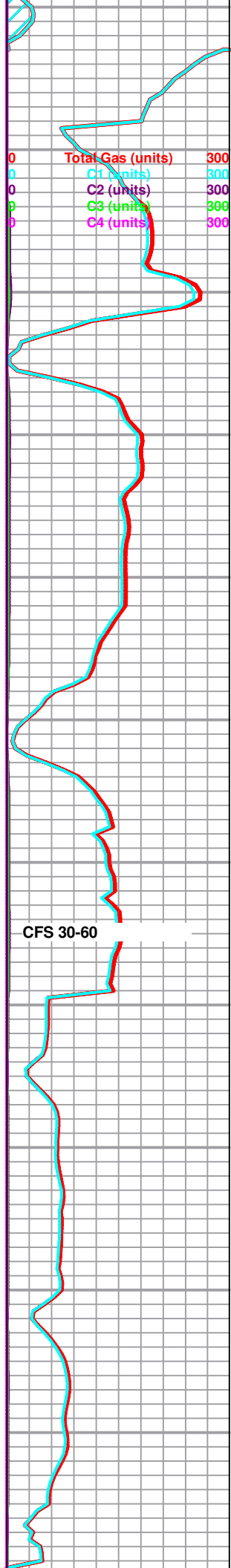
MORROW 5662 (-2514)

Sh Black Carb, soft, silty

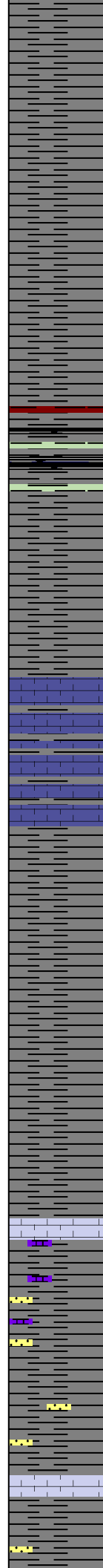
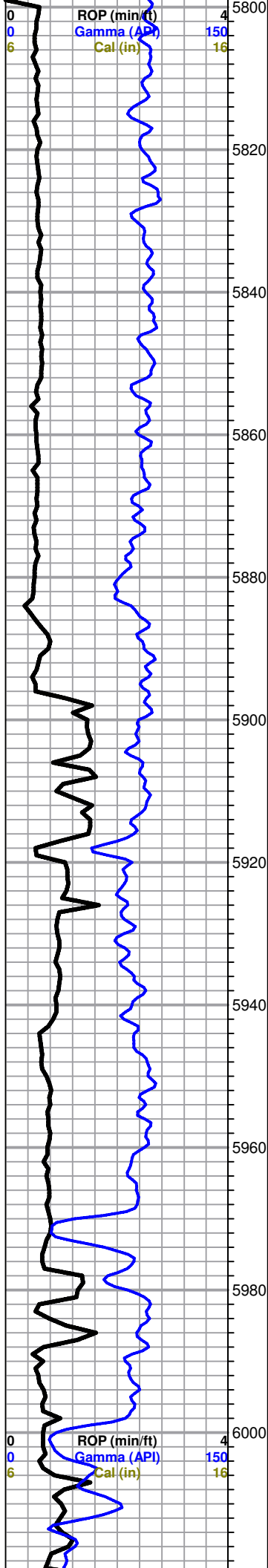
Sand, gry to white, fine grained, well sorted, friable, no shows

Shale gray, black, limey, silty in parts

Shale gray to black, limey



CFS 30-60



Sh A/A

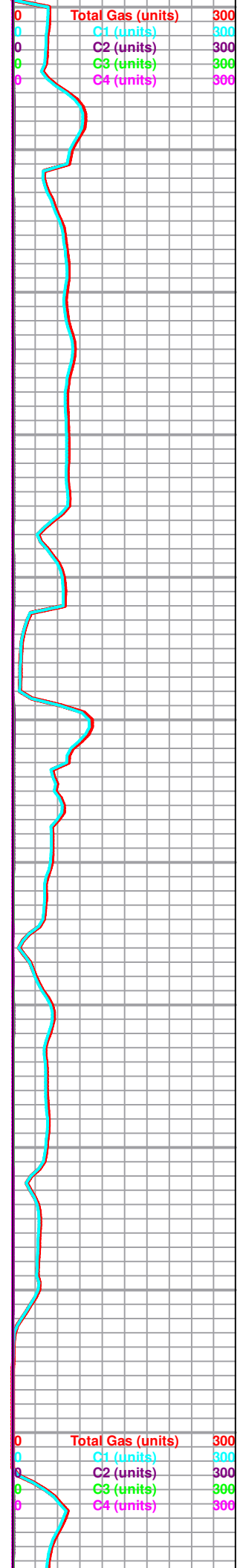
Shale gray, black , green

LS, tan to gray, fxl, poor visible porosity, no shows

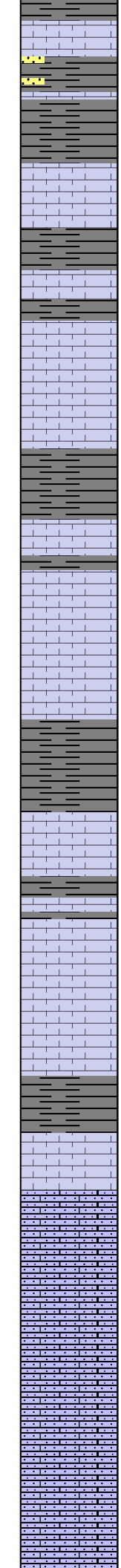
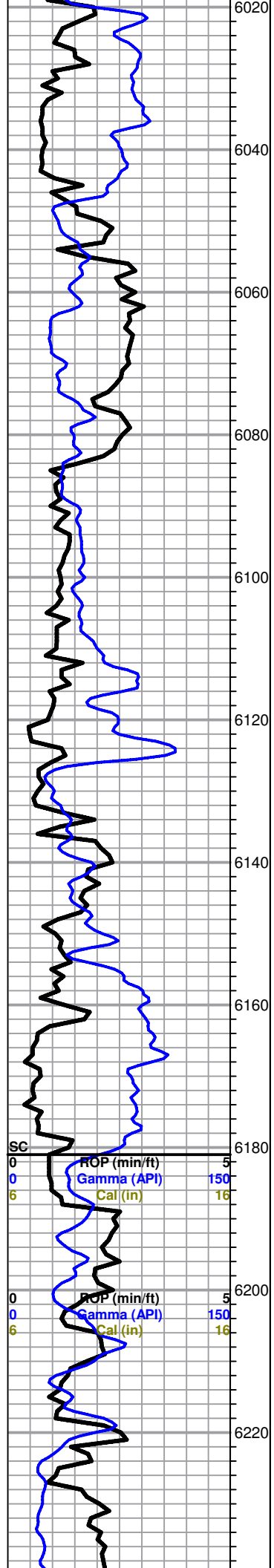
Shale, gray, black,

Sh A/A,

Sh A/A, trace of gray to tan sand, sub rounded grains, no vis stain, no shows



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



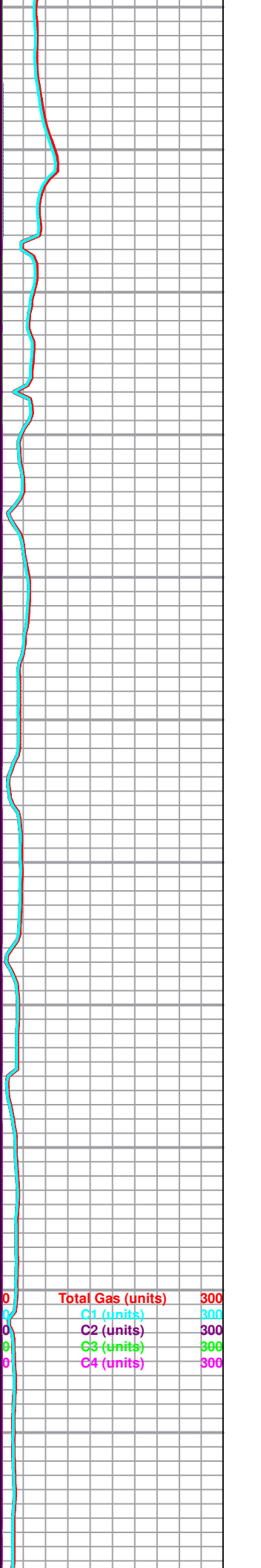
LS, cream to tan, FXL, poor visible porosity, trace of pyrite

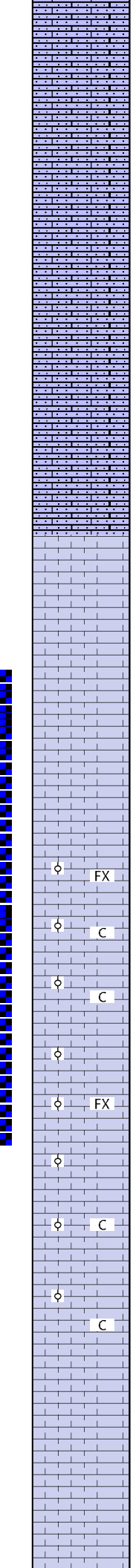
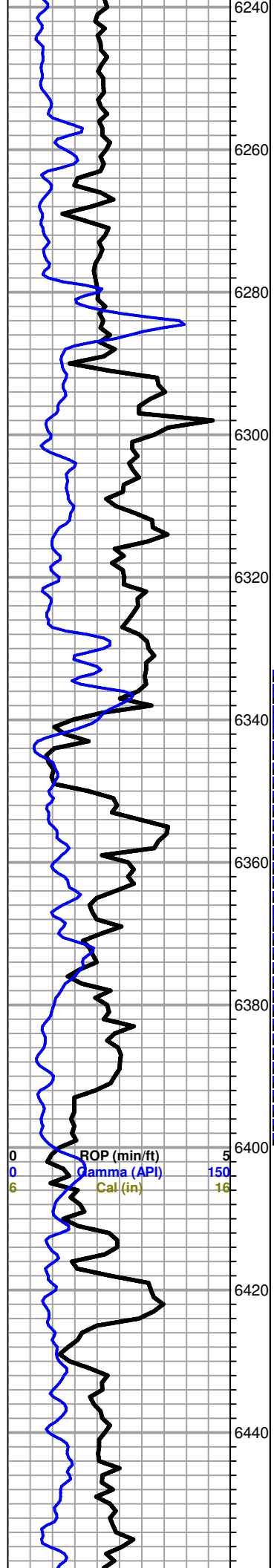
Sh black, gray, LS, cream to buff FXL, poor visible porosity, dense, no shows

LS cream to gray, FXL, poor scattered porosity, trc pyrite

ST. GEN 6189 -3041

LS tan to brown, sandy limestone, friable, fair inxln porosity, no shows, no odor





LS cream to brown, sandy, dns, poor inxln porosity, no show

Short Trip Back to 5250

Short Trip to 5250

ST. LOUIS 6349 (-3201)

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

LS Cream to tan ool, FXL, poor scattered porosity, chalky, faint odor in samples, no shows

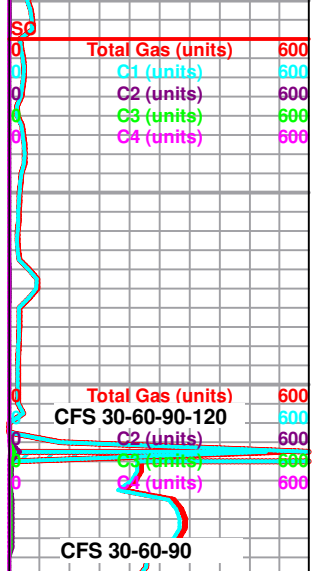
LS Cream to tan, ool, F-M-XLN, chalky in parts, faint odor, fair yellow flor,

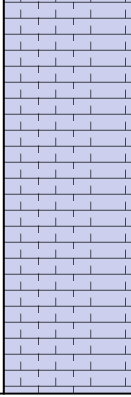
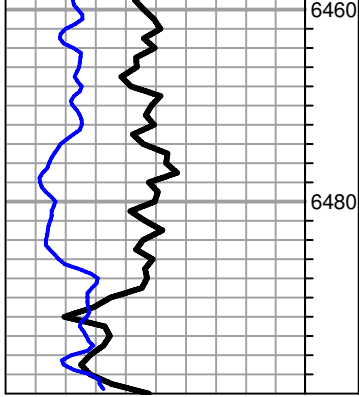
ST. LOUIS B ZONE -3225

LS cream to tan , ool, FXL, poor visible porosity, chalky, no shows, poor flor cut, faint odor in 30 min sample

LS cream to tan, ool, FXI poor INXL porosity, poor visible porosity, no shows, no odor

LS cream, ool, FXL, poor visible porosity, dns, no shows, abd black, gray shales

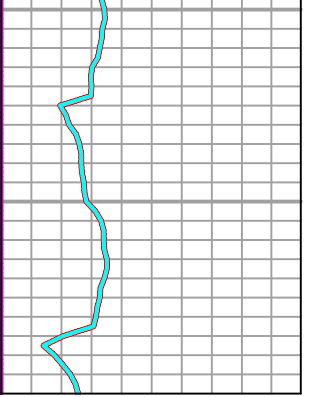




LS A/A

LS cream to tan, FXL, dns, poor visible porosity,
no shows

LS cream to tan, FXL, slightly chalky in parts, poor
visible porosity, no show





DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc.**

PO Box 399
Garden City KS 67846

ATTN: Wyatt Urban

Laura #21-2

21-32s-37w Stevens,KS

Start Date: 2013.09.14 @ 06:48:15

End Date: 2013.09.14 @ 15:30:00

Job Ticket #: 52917 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.16 @ 14:25:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

21-32s-37w Stevens,KS

Laura #21-2

Job Ticket: 52917

DST#: 1

Test Start: 2013.09.14 @ 06:48:15

GENERAL INFORMATION:

Formation: **St. Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:34:30
 Time Test Ended: 15:30:00
 Interval: **6320.00 ft (KB) To 6394.00 ft (KB) (TVD)**
 Total Depth: 6394.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 3148.00 ft (KB)
 3126.00 ft (CF)
 KB to GR/CF: 22.00 ft

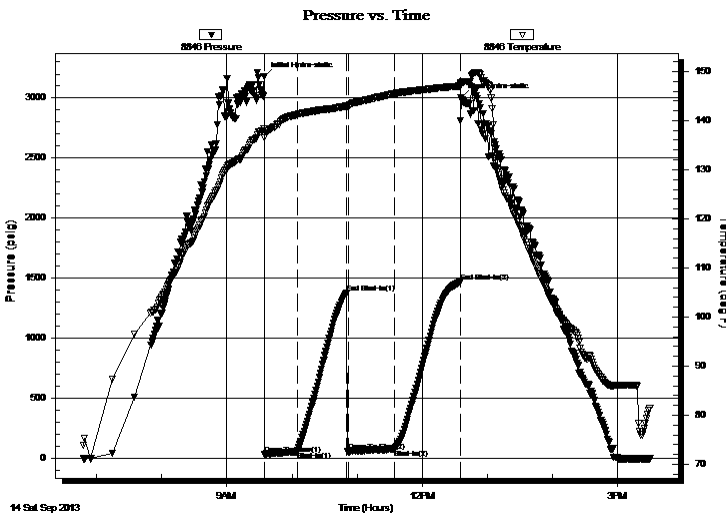
Serial #: 8846

Inside

Press @ Run Depth: 76.04 psig @ 6321.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.14 End Date: 2013.09.14 Last Calib.: 2013.09.14
 Start Time: 06:48:15 End Time: 15:30:00 Time On Btm: 2013.09.14 @ 09:34:15
 Time Off Btm: 2013.09.14 @ 12:35:30

TEST COMMENT: IF:BOB in 19 min.
 IS:No return blow
 FF:BOB instantly
 FS:Built to 2" return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3178.66	138.40	Initial Hydro-static
1	34.84	136.54	Open To Flow (1)
31	57.50	141.23	Shut-In(1)
76	1377.69	142.94	End Shut-In(1)
78	58.34	142.92	Open To Flow (2)
120	76.04	145.46	Shut-In(2)
181	1468.99	147.02	End Shut-In(2)
182	3006.19	147.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mud 100%m	0.64
0.00	GIP=868 feet	0.00

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

21-32s-37w Stevens,KS
Laura #21-2
Job Ticket: 52917 **DST#: 1**
Test Start: 2013.09.14 @ 06:48:15

Tool Information

Drill Pipe:	Length: 6125.00 ft	Diameter: 3.80 inches	Volume: 85.92 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: 25000.00 lb
Drill Collar:	Length: 189.00 ft	Diameter: 2.25 inches	Volume: 0.93 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 86.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	6320.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			6292.00	
Shut In Tool	5.00			6297.00	
Hydraulic tool	5.00			6302.00	
Jars	5.00			6307.00	
Safety Joint	3.00			6310.00	
Packer	5.00			6315.00	29.00 Bottom Of Top Packer
Packer	5.00			6320.00	
Stubb	1.00			6321.00	
Recorder	0.00	8846	Inside	6321.00	
Recorder	0.00	8737	Outside	6321.00	
Perforations	3.00			6324.00	
Change Over Sub	1.00			6325.00	
Drill Pipe	63.00			6388.00	
Change Over Sub	1.00			6389.00	
Bullnose	5.00			6394.00	74.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

21-32s-37w Stevens,KS
Laura #21-2
Job Ticket: 52917 **DST#: 1**
Test Start: 2013.09.14 @ 06:48:15

Mud and Cushion Information

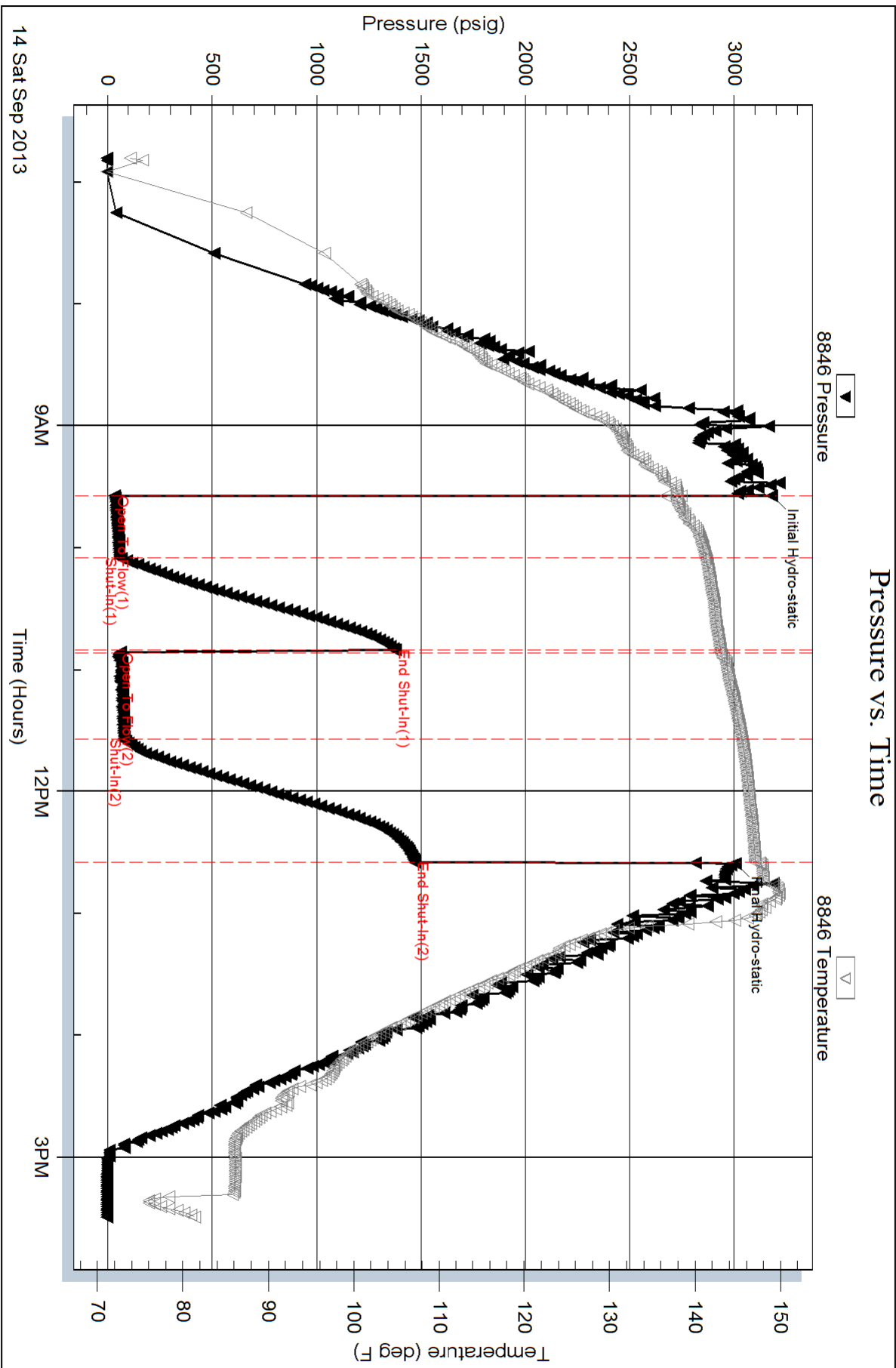
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.16 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	mud 100%m	0.639
0.00	GIP=868 feet	0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

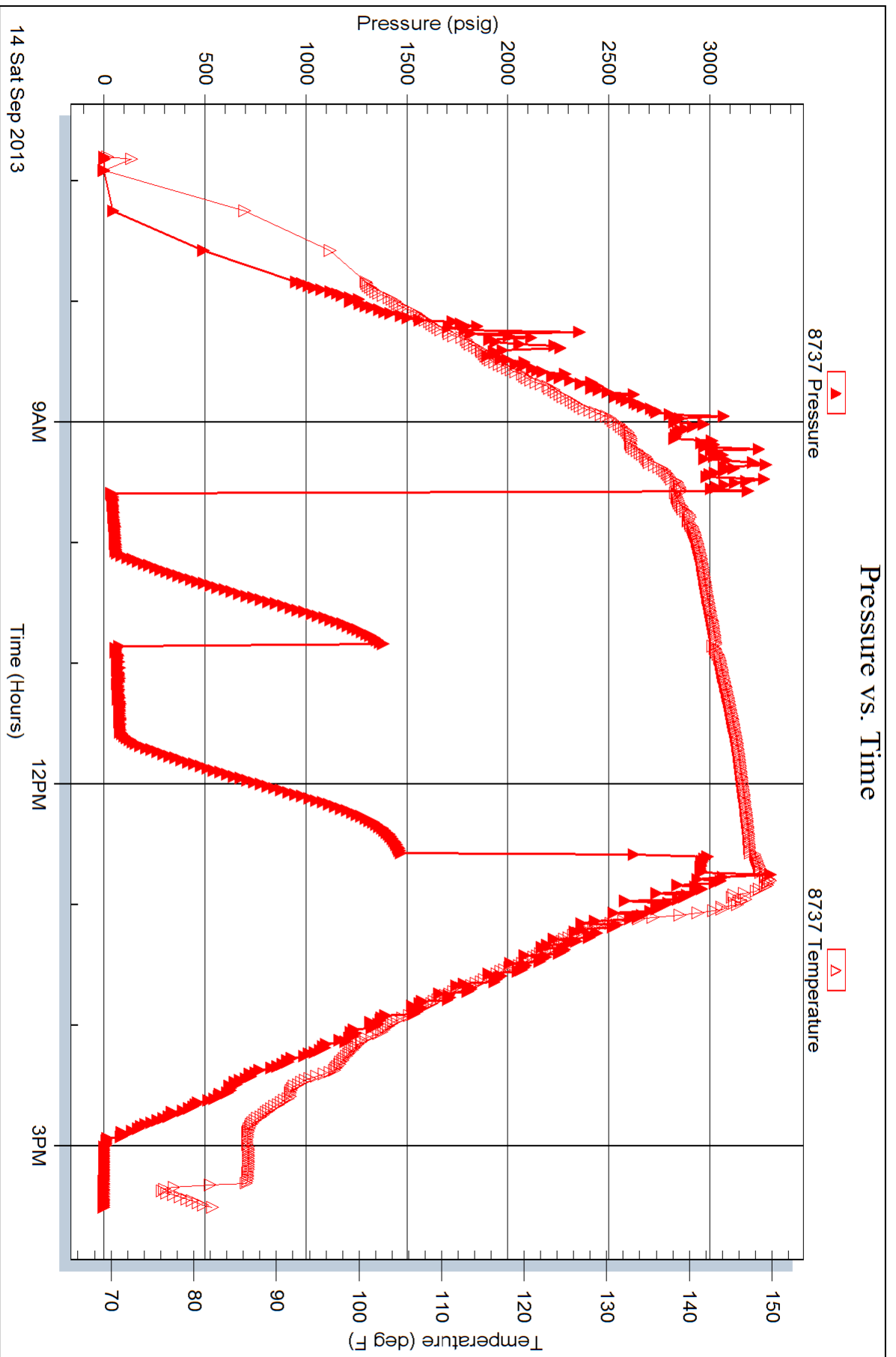


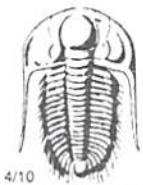
Serial #: 8737

Outside Palmer Oil, Inc.

Laura #21-2

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52916

Well Name & No. Laura 21-2 Test No. 1 Date 9-13-13
 Company Palmer Oil Inc Elevation 3148 KB 3126 GL
 Address 3118 N. Cummings Rd Garden City 67846
 Co. Rep / Geo. Garden City KS 67846 Wyatt Rig Duke #9
 Location: Sec. 21 Twp. 32 Rge. 37 Co. Stevens State KS

Interval Tested 6329-6403 Zone Tested St. Louis
 Anchor Length _____ Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 189 Vis 55
 Bottom Packer Depth _____ Wt. Pipe Run Ø WL 9.2
 Total Depth _____ Chlorides 1500 ppm System LCM 2

Blow Description _____
Dropped Pipe

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

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test _____ T-On Location 14:10
 (B) First Initial Flow _____ Jars _____ T-Started _____
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out _____
 (F) Second Final Flow _____ Mileage 240 RT #372 Comments Drove Back Home - Fishing For Drill Pipe
 (G) Final Shut-In _____ Sampler _____ Ruined Shale Packer _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Packer _____

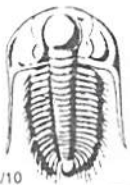
Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 0
 Final Flow _____ Day Standby _____ Total 372
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 372

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.

Test Ticket

NO. 52917



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Well Name & No. Laura 21-2 Test No. 1 Date 9-14-13
 Company Palmer Oil Inc. Elevation 3148 KB 3126 GL
 Address 3118 N. Cummings Rd Garden City KS 67846
 Co. Rep / Geo. Wyatt Urban Rig Duke #9
 Location: Sec. 21 Twp. 32 Rge. 37 Co. Stevens State KS

Interval Tested ~~6320-6394~~ Zone Tested St. Louis
 Anchor Length 74' Drill Pipe Run ~~6125~~
 Top Packer Depth ~~6320~~ 6314 Drill Collars Run 189 Mud Wt. 9.3
 Bottom Packer Depth ~~6320~~ 6320 Wt. Pipe Run Ø Vis 55
 Total Depth ~~6394~~ 6394 Chlorides 1500 ppm System LCM 2
 WL 9.2

Blow Description IF: BOB in 19 Min
IS: No Return Blow
FF: BOB Instantly
FS: Return Blow Built to 2"

Rec	Feet of	%gas	%oil	%water	%mu
<u>Ø</u>	<u>GIP = 868'</u>	<u>100</u>			
<u>130</u>	<u>MUD</u>				<u>100</u>

Rec Total 130 BHT 147 Gravity — API RW — @ — ° F Chlorides — pp

- (A) Initial Hydrostatic 3178
- (B) First Initial Flow 34
- (C) First Final Flow 57
- (D) Initial Shut-In 1377
- (E) Second Initial Flow 58
- (F) Second Final Flow 74
- (G) Final Shut-In 1468
- (H) Final Hydrostatic 3006

- Test 1450
- Jars 250
- Safety Joint 75
- Circ Sub DC
- Hourly Standby
- Mileage 240 RT 372
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2147

T-On Location 05:10
 T-Started 06:48
 T-Open 09:34
 T-Pulled ~~13:19~~ 12:39
 T-Out 15:30

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 2147
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow ~~60~~ 45
 Final Shut-In ~~90~~ 60

Approved By Wyatt Urban Our Representative Mike Roberts

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.



ALLIED

CEMENTING CO., LLC
Cementing & Acidizing Services

CEMENTING LOG

STAGE NO.

Date 9-8-13 District liberal Ticket No. 59284
 Company Palmer oil Rig 2479
 Lease 1499 Well No. 21-1
 County Stevens State KS.
 Location Not Hayston Field _____

CEMENT DATA:
 Spacer Type: H2O-10 BBLs
 Amt. _____ Sks Yield _____ ft³/sk Density 8.34 PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 7/8 Type _____ Weight 247 Collar _____

LEAD: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. 625 Sks Yield 1.97 ft³/sk Density 12.4 PPG

Casing Depths: Top _____ Bottom 1750 +

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. 200 Sks Yield 1.18 ft³/sk Density 15.6 PPG
 WATER: Lead 10.9 gals/sk Tail 5.3 gals/sk Total _____ Bbbs.

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1750 ft. P.B. to _____ ft.

Pump Trucks Used 530-784
 Bulk Equip. 472-554 562-528

CAPACITY FACTORS:
 Casing: Bbbs/Lin. ft. .0637 Lin. ft./Bbl. _____
 Open Holes: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbs/Lin. ft. .0735 Lin. ft./Bbl. _____
 Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer Weatherford
 Shoe: Type Guide Shoe Depth _____
 Float: Type FFU-Inset Depth _____
 Centralizers: Quantity 3 Plugs Top 1 Btm. _____
 Stage Collars _____
 Special Equip. 1 con basket
 Disp. Fluid Type H2O Amt. _____ Bbbs. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Ernie Papp

CEMENTER Ruben Chavez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
<u>2:00</u>						<u>Got to location + rig up.</u>
<u>6:00</u>			<u>10</u>	<u>10</u>	<u>5</u>	<u>Pump 10 BBL H2O spacer.</u>
<u>6:20</u>			<u>271</u>	<u>261</u>	<u>5</u>	<u>Mix + pump 825 sk cement - 1261 BBLs - slurry</u>
<u>7:20</u>			<u>380.5</u>	<u>109.5</u>	<u>6</u>	<u>Drop plug and start displacing</u>
<u>7:45</u>	<u>750</u>	<u>1250</u>				<u>finish displacing + bump plug ad.</u>
<u>7:50</u>						<u>Release pressure + low hold - 2.5 BBLs - slurry circulate to pit.</u>
						<u>Thank you.</u>

FINAL DISP. PRESS: 750 PSI BUMP PLUG TO 1250 PSI BLEEDBACK 1/2 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 04269 A

DATE _____ TICKET NO. _____

DATE OF JOB 9-16-13	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	LEASE Laura #21-2	WELL NO.							
ADDRESS	COUNTY Stewens	STATE KS							
CITY	STATE	SERVICE CREW E Mendoza S Chavez							
AUTHORIZED BY J Bennett	JOB TYPE: 242- 5/2" Prod								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 9-16-13	AM 2:00	TIME
34726	8					ARRIVED AT JOB		PM 5:00	
27462	8					START OPERATION		AM 6:00	
14359	8					FINISH OPERATION		PM 7:00	
19578	8					RELEASED		AM 8:00	
						MILES FROM STATION TO WELL	50 mi		

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
CL105	AA2	sk	200		3640 00
CL103	60/40	sk	50		600 00
CC113	Gypsum	lb	940		705 00
CC111	Salt		1107		553 50
CC103	C-15		113		1412 50
CC105	C-41P		47		188 00
CC201	Gilsonite		1000		670 00
CF1251	5/2" Auto Fill Float Shoe	ea	1		360 00
CF607	latch down Plug + Baffle		1		400 00
CF4402	Turbolizer		12		900 00
CF4552	Basket		1		955 00
CF3000	Thread Lock		1		34 00
CC151	Mud flush	gal	500		430 00
E101	Heavy Equipment Mileage	mi	100		700 00
CE240	Blending + Mixing Service	sk	250		350 00
E113	Proppant + Bulk Delivery	cu/yd	578		924 00
CE207	Pump Depth: 6001-7000'	hr	1		3240 00
CE803	High Head 12"	ea	1		300 00
CE804	Plug Container	ea	1		250 00
SUB TOTAL					\$11049.68

CHEMICAL / ACID DATA:		

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

SERVICE REPRESENTATIVE: *Paul Owen*
FIELD SERVICE ORDER NO. _____

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



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer	Palmer Oil	Lease No.		Date	9-16-13
Lease	Laura	Well #	21-2	Service Receipt	04209
Casing	5 1/2" 15.5" #	County	Stevens	State	KS
Job Type	242-5 1/2" Production	Formation		Legal Description	21-32-37

Pipe Data		Perforating Data		Cement Data
Casing size	5 1/2" 15.5" #	Tubing Size		Lead
Depth	6548'	Depth	From To	Tail in 200sk AA2
Volume	Disp-154.8 bbl	Volume	From To	
Max Press	2500#	Max Press	From To	
Well Connection	TD-6500'	Annulus Vol.	From To	
Plug Depth	ST-42'	Packer Depth	From To	

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
12:00					on loc-site assessment
4:00					spot trucks - rig up
1:30					start csg + float equip
5:30					csg on bottom break circ
5:30					safety meeting/JSA
6:25					pressure test 3000#
6:25	200		12	4	pump 500 gal mud flush
6:30	200		53.8	5	mix + pump 200 sk AA2 @ 14.8 ppg - 1.51 43/sk
6:40					wash lines
6:45	0		0	6	drop latch down plug, disp csg
7:10	700		145	2	slow rate
7:15	1300		155	0	land plug, float held
6:00					plug rat + mouse w/ 50 sk 60/40 pot @ 13.5 ppg job complete

Service Units	34726	27462	14354-19578		
Driver Names	A Owens	E Merdoza	S Chavez		

Emelio
Customer Representative

J Bennett
Station Manager

A Owens
Cementer

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 15-189-22811-00-00
Laura 21-2
SE/4 Sec.21-32S-37W
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