



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1203454  
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: \_\_\_\_\_

1203454

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	French 1-27
Doc ID	1203454

All Electric Logs Run

Dual Induction
Neutron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	French 1-27
Doc ID	1203454

Tops

Name	Top	Datum
HEEBNER SHALE	3425	-1380
LKC	3522	-1477
STARK SHALE	3725	-1680
BKC	3786	-1741
CONGLOMERATE	3855	-1810
ARBUCKLE	3903	-1858
REAGAN	4217	-2172
LTD	4264	-2219



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 106

Date	4-16-14	Sec.	27	Twp.	21	Range	17	County	PAWNEE	State	KS.	On Location		Finish	4:30PM
Lease								Well No.		Owner					
FRENCH								1-27		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Contractor								Type Job		Charge To					
STEERING DRIG RIGS								LONG SURFACE		SHELBY RESOURCES					
Hole Size				T.D.				Csg.				Depth			
12 3/4				1075				8 5/8				1070'			
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
BAFFLE Plate				1038'				Cement Amount Ordered				400 SX <sup>60</sup> / <sub>40</sub>			
Cement Left in Csg.				Shoe Joint				3%CC 2 3/8 GEL							
42.25				42.25											
Meas Line				Displace				Common							
P0				65 1/2 BBL				240							
EQUIPMENT								Common							
Pumptrk				No.				Cementer				Gleny G.			
18								Helper				CODY B.			
Bulktrk				No.				Driver				CLAYTON B.			
13								Driver							
Bulktrk				No.				Driver				Calcium			
												15			
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling 423							
Ran 25 New JOINTS OF 8 5/8								Mileage							
23 # Csg. Set @ 1070'								FLOAT EQUIPMENT							
Received CIRCULATION Cement								Wide Shoe 1- 8 5/8							
w/ 400 SX <sup>60</sup> / <sub>40</sub> 243. Release TRP.								Centralizer Baffleplate 1- 8 5/8							
+ Displaced a TOTAL OF								Baskets							
65 1/2 BBL/ BEHIND. Land								AFU Inserts							
plug @ 800 #. + SHOT IN								Float Shoe							
Cement DID CIRCULATE								Latch Down 1 solid Rubber plug							
TO SURFACE								New 8 Man							
THANK'S								Pumptrk Charge Long Surface							
								Mileage 26							
								Tax							
								Discount							
X Signature Alan Loflin								Total Charge							

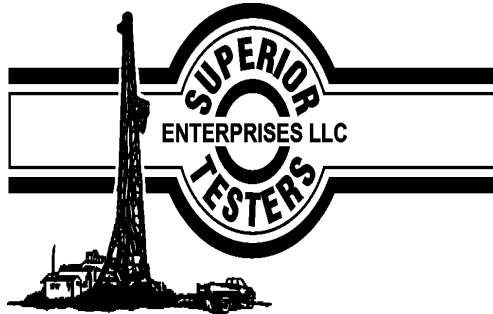
Customer <i>Shelly Resources</i>		Lease No.		Date <i>4-23-2014</i>	
Lease <i>French</i>		Well # <i>1-27</i>			
Field Order # <i>10406</i>	Station <i>Drgains</i>	Casing	Depth	County <i>DGwnoe</i>	State <i>KS</i>
Type Job <i>CNW/PTA</i>			Formation	Legal Description <i>27-21-17</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Allen</i>	Station Manager <i>Kevin Gordley</i>	Treater <i>Darin Franklin</i>
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Service Units	<i>27283</i>	<i>27463</i>	<i>19826</i>	<i>19860</i>					
Driver Names	<i>Darin</i>	<i>Pat</i>	<i>Josh</i>	<i>Josh</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>On location / SS Petry Meetings</i>
			<i>8</i>	<i>4</i>	<i>1st Plus - 3905 - 505x</i>
			<i>13</i>	<i>4</i>	<i>Pump 8 bbls water</i>
			<i>50</i>	<i>4</i>	<i>mix 505x</i>
					<i>Dispense 3 bbls water, 47 bbls mud</i>
			<i>8</i>	<i>4</i>	<i>2nd Plus - 1100' 505x</i>
			<i>13</i>	<i>4</i>	<i>Pump 8 bbls water</i>
			<i>10</i>	<i>4</i>	<i>mix 505x</i>
					<i>Dispense 3 bbls water, 7 bbls mud</i>
			<i>3</i>	<i>4</i>	<i>3rd Plus - 270' - 405x</i>
			<i>10</i>	<i>4</i>	<i>Pump 3 bbls water check</i>
			<i>1</i>	<i>4</i>	<i>mix 405x</i>
					<i>Dispense 1 bbl water</i>
			<i>5</i>		<i>4th Plus - 60' - 205x</i>
					<i>mix 205x</i>
			<i>8</i>		<i>Return - mix 305x</i>
			<i>5</i>		<i>mouse hole - mix 205x</i>



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC.**

2717 Canal Blvd. Hays  
Kansas 67601

ATTN: Jeremy Schwartz

### **French 1-27**

#### **27-21s-17w-Pawnee**

Start Date: 2014.04.21 @ 01:45:00

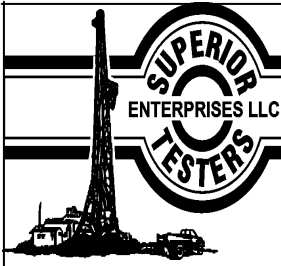
End Date: 2014.04.21 @ 08:31:30

Job Ticket #: 18315                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.04.21 @ 21:46:13





# DRILL STEM TEST REPORT

Shelby Resources LLC.

**27-21s-17w-Pawnee**

2717 Canal Blvd. Hays  
Kansas 67601

**French 1-27**

Job Ticket: 18315

**DST#: 1**

ATTN: Jeremy Schwartz

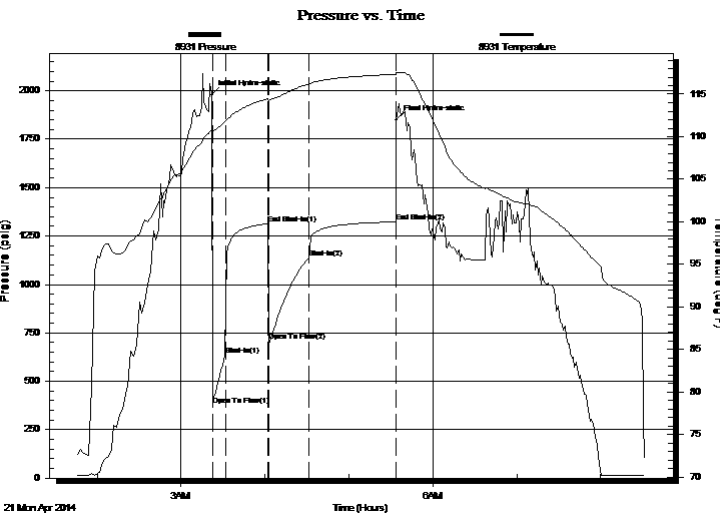
Test Start: 2014.04.21 @ 01:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 03:22:30  
 Tester: Dustin Ellis  
 Time Test Ended: 08:31:30  
 Unit No: 3315-Great Bend-60  
 Interval: **3970.00 ft (KB) To 3981.00 ft (KB) (TVD)**  
 Reference Elevations: 2045.00 ft (KB)  
 Total Depth: 3981.00 ft (KB) (TVD)  
 2032.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

**Serial #: 8931 Outside**  
 Press@RunDepth: 1138.77 psig @ 3976.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.04.21 End Date: 2014.04.21 Last Calib.: 2014.04.21  
 Start Time: 01:45:00 End Time: 08:31:30 Time On Btm: 2014.04.21 @ 03:22:00  
 Time Off Btm: 2014.04.21 @ 05:34:00

**TEST COMMENT:** 1st Open 10 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.  
 1st Shut in 30 minutes No blow back  
 2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.  
 2nd Shut in 60 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.46	110.91	Initial Hydro-static
1	377.85	110.58	Open To Flow (1)
10	636.75	111.73	Shut-In(1)
40	1313.43	114.47	End Shut-In(1)
41	709.56	114.24	Open To Flow (2)
70	1138.77	116.22	Shut-In(2)
132	1323.25	117.35	End Shut-In(2)
132	1849.29	117.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2363.00	Water 100%	29.76
0.00	Chlorides 46,000-.3ohms@56degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Shelby Resources LLC.

**27-21s-17w-Pawnee**

2717 Canal Blvd. Hays  
Kansas 67601

**French 1-27**

Job Ticket: 18315

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2014.04.21 @ 01:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:22:30

Time Test Ended: 08:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-60

**Interval: 3970.00 ft (KB) To 3981.00 ft (KB) (TVD)**

Reference Elevations: 2045.00 ft (KB)

Total Depth: 3981.00 ft (KB) (TVD)

2032.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 6838**

**Inside**

Press@RunDepth: 1324.68 psig @ 3976.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.04.21

End Date:

2014.04.21

Last Calib.:

2014.04.21

Start Time: 01:45:00

End Time:

08:32:00

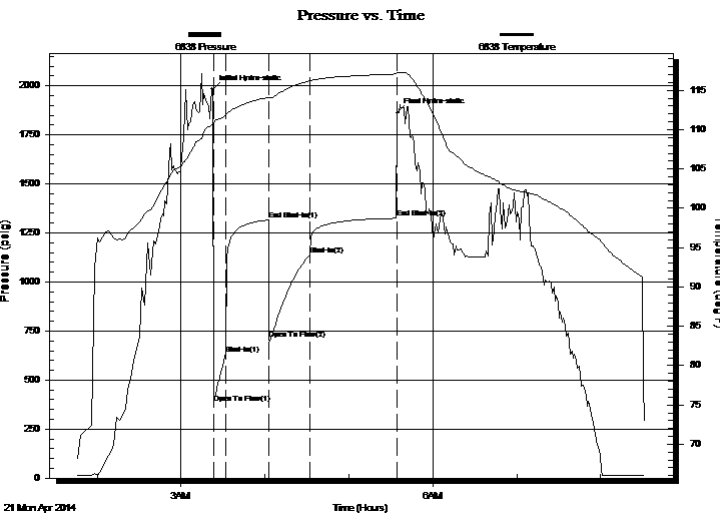
Time On Btm:

2014.04.21 @ 03:22:30

Time Off Btm:

2014.04.21 @ 05:34:30

**TEST COMMENT:** 1st Open 10 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.  
1st Shut in 30 minutes No blow back  
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.  
2nd Shut in 60 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.64	110.78	Initial Hydro-static
1	383.80	110.62	Open To Flow (1)
10	631.16	111.83	Shut-In(1)
40	1315.46	114.13	End Shut-In(1)
41	710.07	114.03	Open To Flow (2)
70	1138.20	116.21	Shut-In(2)
132	1324.68	117.09	End Shut-In(2)
132	1861.06	117.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2363.00	Water 100%	29.76
0.00	Chlorides 46,000-.3ohms@56degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC.

**27-21s-17w-Pawnee**

2717 Canal Blvd. Hays  
Kansas 67601

**French 1-27**

Job Ticket: 18315

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2014.04.21 @ 01:45:00

## Tool Information

Drill Pipe:	Length: 3586.00 ft	Diameter: 3.80 inches	Volume: 50.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 371.45 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 890000.0 lb
			<u>Total Volume: 52.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.45 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3970.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3947.00	
Hydraulic tool	5.00			3952.00	
Jars	6.00			3958.00	
Safety Joint	2.00			3960.00	
Top Packer	5.00			3965.00	
Packer	5.00			3970.00	28.00 Bottom Of Top Packer
Perforations	6.00			3976.00	
Recorder	0.00	6838	Inside	3976.00	
Recorder	0.00	8931	Outside	3976.00	
Bull Plug	5.00			3981.00	11.00 Anchor Tool
<b>Total Tool Length:</b>	<b>39.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC.

**27-21s-17w-Pawnee**

2717 Canal Blvd. Hays  
Kansas 67601

**French 1-27**

Job Ticket: 18315

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2014.04.21 @ 01:45:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 10.40 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2363.00	Water 100%	29.763
0.00	Chlorides 46,000-.3ohms@56degrees	0.000

Total Length: 2363.00 ft      Total Volume: 29.763 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

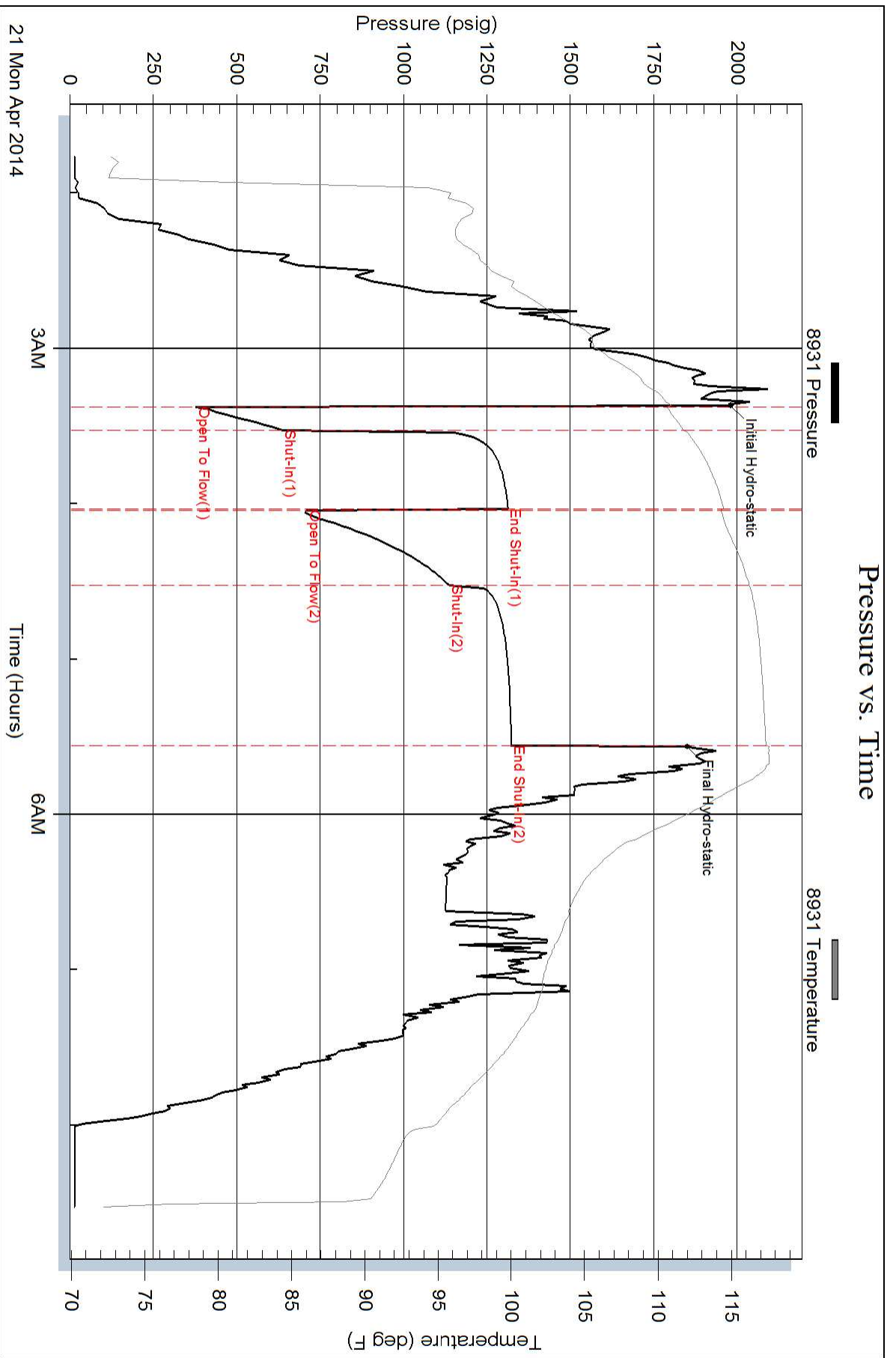
Serial #:

Laboratory Name:

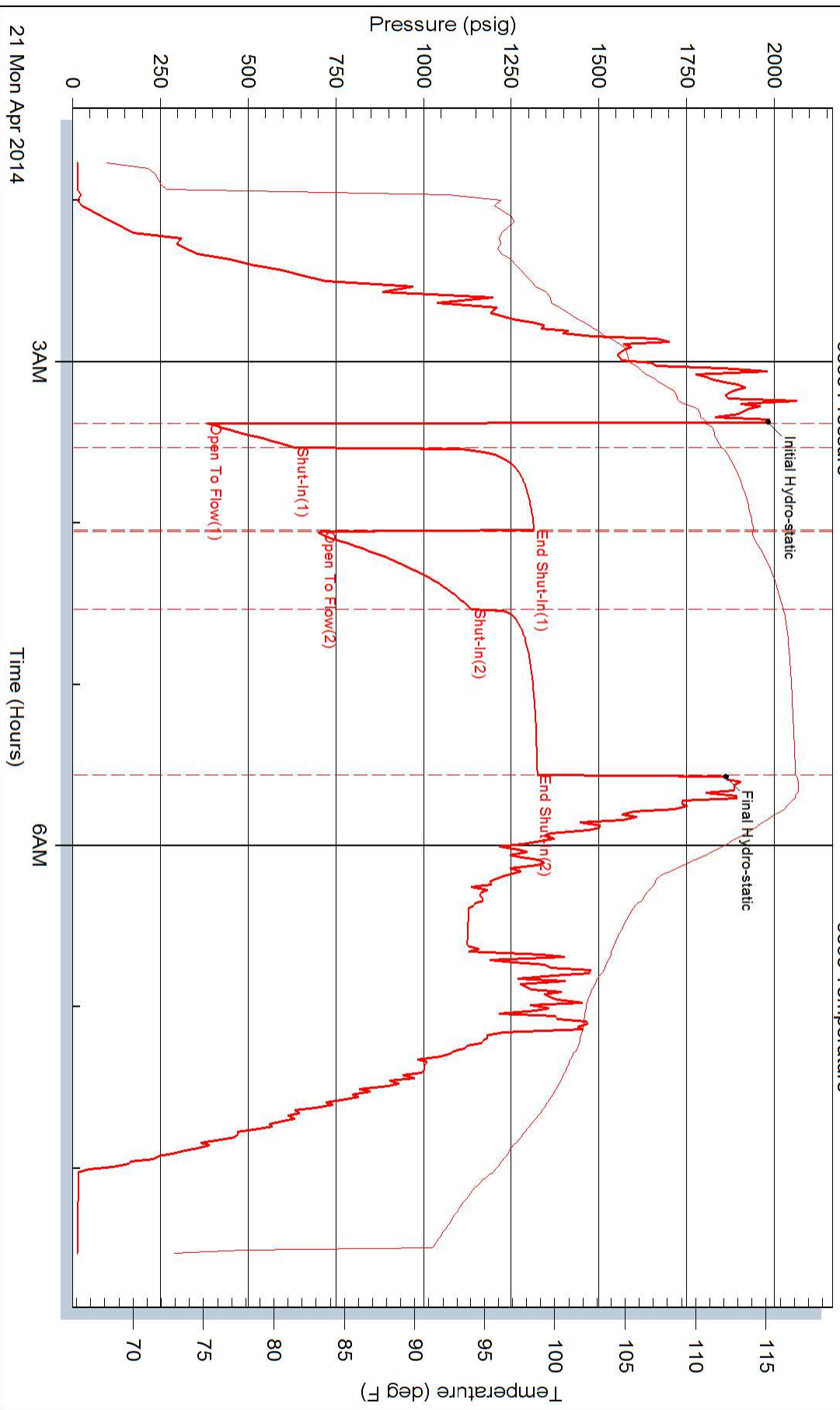
Laboratory Location:

Recovery Comments: Dropped Bar.Reversed Fluid.

### Pressure vs. Time



### Pressure vs. Time





Scale 1:240 Imperial

Well Name: French 1-27  
 Surface Location: 330' FSL \_1920' FEL Sec 27 - 21S- 17W  
 Bottom Location:  
 API: 15-145-21751-00-00  
 License Number:  
 Spud Date: 4/15/2014 Time: 7:15 PM  
 Region: Pawnee County  
 Drilling Completed: 4/22/2014 Time: 7:15 AM  
 Surface Coordinates: Y = 555245 & X = 1806117  
 Bottom Hole Coordinates:  
 Ground Elevation: 2032.00ft  
 K.B. Elevation: 2045.00ft  
 Logged Interval: 3270.00ft To: 4290.00ft  
 Total Depth: 4265.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: Shelby Resources, LLC  
 Address: 445 Union Blvd, Suite 208  
 Lakewood, CO 80228  
 Contact Geologist: Janine Sturdavant  
 Contact Phone Nbr: 303-907-2209 / 720-274-4682  
 Well Name: French 1-27  
 Location: 330' FSL \_1920' FEL Sec 27 - 21S- 17W API: 15-145-21751-00-00  
 Pool: Field: Fort Larned East  
 State: Kansas Country: USA

**LOGGED BY**



Company: Shelby Resources, LLC  
 Address: 445 UNION BLVD. Suite 208  
 LAKEWOOD, CO. 80228  
 Phone Nbr: 203-671-6034  
 Logged By: Geologist Name: Jeremy Schwartz

**NOTES**

The Shelby Resources, LLC French #1-27 was drilled to a total depth of 4265', bottoming in the Granite Wash. A TookeDaq gas detector was employed in the drilling of said well.

1 DST was conducted in the Arbuckle which tested only water. The DST report can be found at the top of this log.

Due to the DST results, lack of sample shows and gas kicks, and log analysis it was determined by all parties involved to plug and abandon said well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,  
Jeremy Schwartz  
Geologist

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:





4.300	-2.255	30-30-30-30 10'M SIP: 40-30#	26 7/8" BLACK SULPHUR WTR
		DST #3 (368 7-3760) LANSING H-J 30-45-30-45 530' WTR SIP: 1321-1321#	



## DRILL STEM TEST REPORT

Shelby Resources LLC.

27-21s-17w-Pawnee

2717 Canal Blvd. Hays  
Kansas 67601

French 1-27

Job Ticket: 18315

DST#: 1

ATTN: Jeremy Schwartz

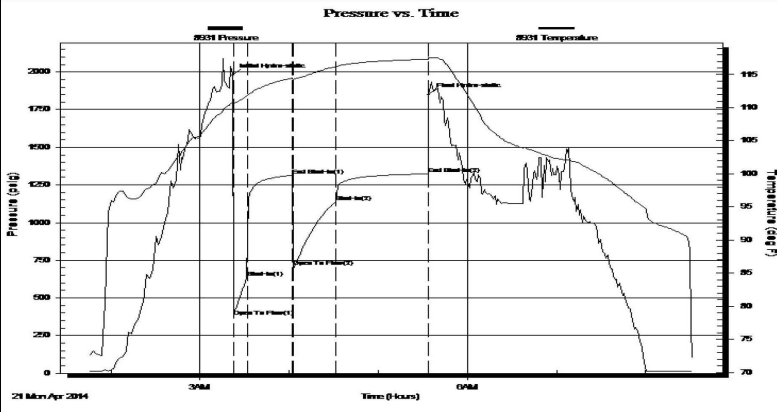
Test Start: 2014.04.21 @ 01:45:00

### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:22:30  
 Time Test Ended: 08:31:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-60  
 Interval: **3970.00 ft (KB) To 3981.00 ft (KB) (TVD)**  
 Total Depth: 3981.00 ft (KB) (TVD)  
 Reference Elevations: 2045.00 ft (KB)  
 2032.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

**Serial #: 8931 Outside**  
 Press@RunDepth: 1138.77 psig @ 3976.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.04.21 End Date: 2014.04.21 Last Calib.: 2014.04.21  
 Start Time: 01:45:00 End Time: 08:31:30 Time On Btm: 2014.04.21 @ 03:22:00  
 Time Off Btm: 2014.04.21 @ 05:34:00

**TEST COMMENT:** 1st Open 10 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.  
 1st Shut in 30 minutes No blow back  
 2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.  
 2nd Shut in 60 minutes No blow back



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.46	110.91	Initial Hydro-static
1	377.85	110.58	Open To Flow (1)
10	636.75	111.73	Shut-In(1)
40	1313.43	114.47	End Shut-In(1)
41	709.56	114.24	Open To Flow (2)
70	1138.77	116.22	Shut-In(2)
132	1323.25	117.35	End Shut-In(2)
132	1849.29	117.55	Final Hydro-static

Length (ft)	Description	Volume (bbl)
2363.00	Water 100%	29.76
0.00	Chlorides 46,000-.3ohms@56degrees	0.00

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

Superior Testers Enterprises LLC Ref. No: 18315 Printed: 2014.04.21 @ 21:46:13

### ROCK TYPES

Congl	Lmst fw<7	shale, gry	shale, red	Ignebasic
Dolprim	shale, grn	Carbon Sh	Ss	

### ACCESSORIES

<b>MINERAL</b> Varicolored chert	<b>FOSSIL</b> Bioclastic or Fragmental Fossils < 20%	<b>STRINGER</b> Dolomite Sandstone	<b>TEXTURE</b> Chalky
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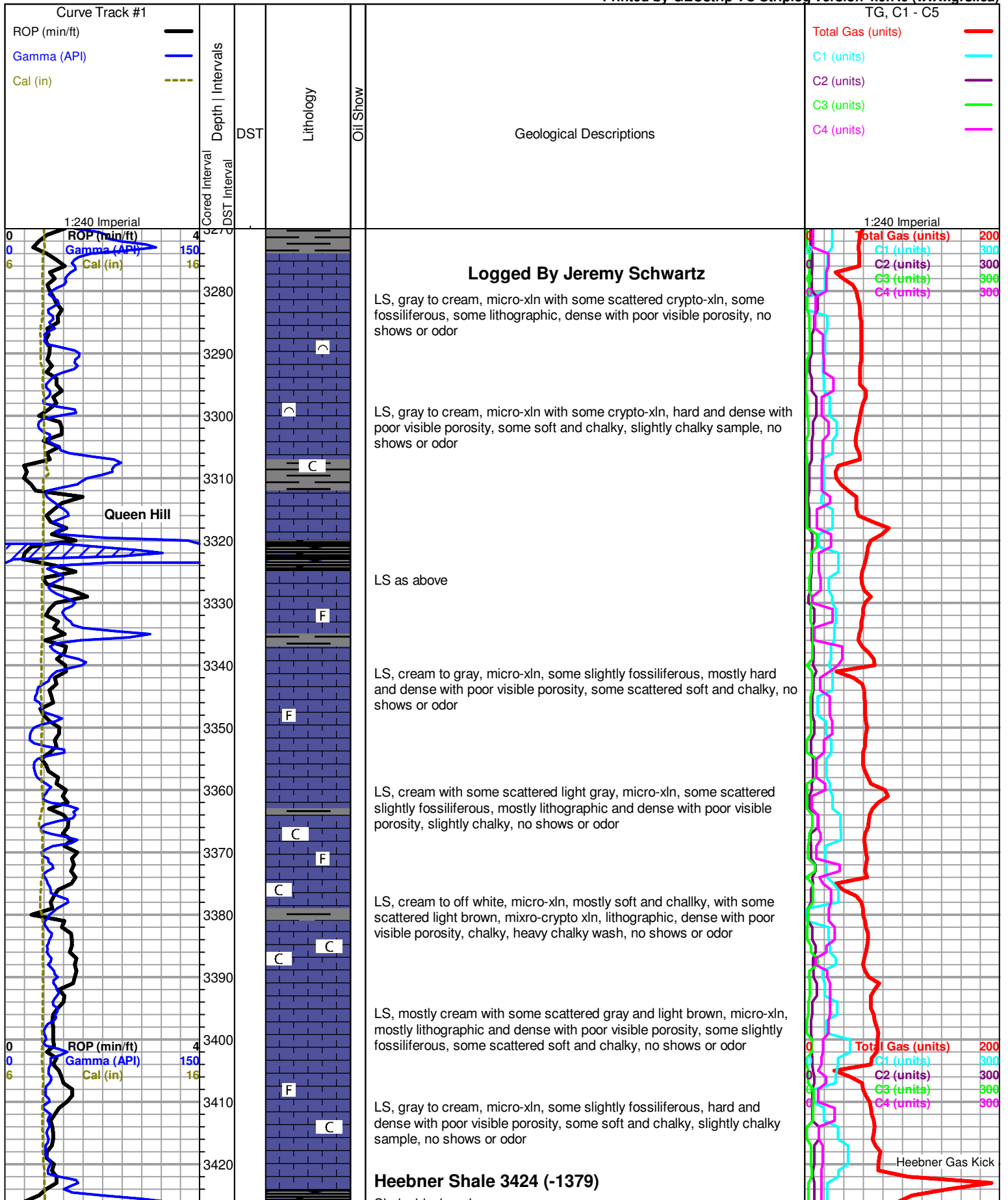
### OTHER SYMBOLS

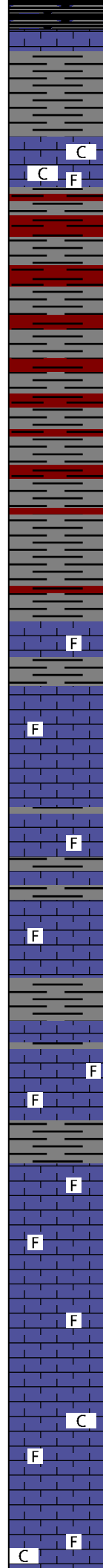
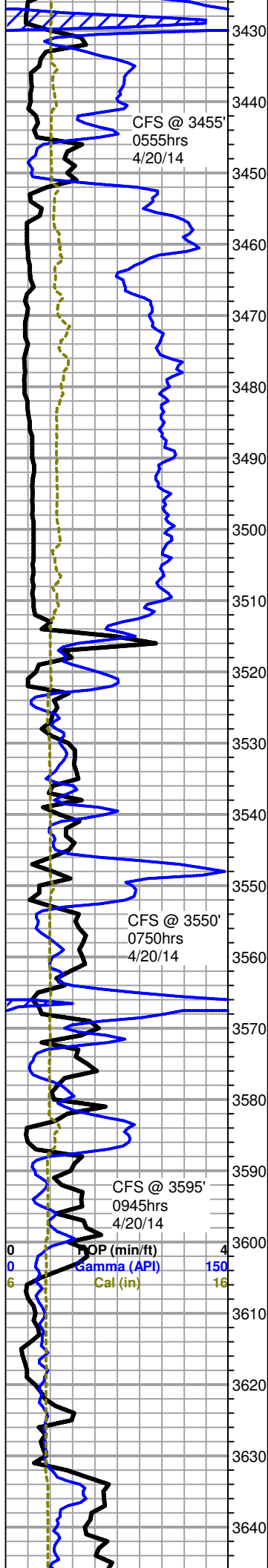
**Oil Show**

- Good Show
- Fair Show
- Poor show
- Spotted or Trace
- Questionable Strn
- Dead Oil Strn
- Fluorescence
- \* Gas

**DST**

- DST Int
- DST alt





Shale, black carbonaceous

**Toronto 3445 (-1400)**

LS, cream to off-white with some gray, some slightly fossiliferous, mostly lithographic and dense with poor visible porosity, some soft and chalky, also with abundant gray clay, chalky sample, no shows or odor

**Douglas Shale 3452 (-1407)**

Shale, mixed gray and red, mostly soft and waxy, some silty

Shale as above

As above, mostly gray shale, soft and waxy

**Brown Lime 3514 (-1469)**

LS, brown, micro-xln, slightly fossiliferous, hard and dense with poor visible porosity, no shows or odor

**Lansing 3522 (-1477)**

LS, cream to off-white with some scattered gray, some slightly fossiliferous, mostly lithographic and dense with poor visible porosity, no shows or odor

LS, cream to light gray with some scattered gray mottled, micro-xln, some fossiliferous, some lithographic, dense with poor visible porosity, no shows or odor

LS, cream to off white, micro-xln, some scattered slightly fossiliferous, mostly lithographic and dense with poor visible porosity, no shows or odor

LS, cream to gray, micro-xln, some fossiliferous, some lithographic, dense with poor visible porosity, no shows or odor

LS, cream with some scattered light gray and light brown, micro-xln, some fossiliferous, some lithographic, scattered very slightly sub-oolitic, dense with poor visible porosity, no shows or odor

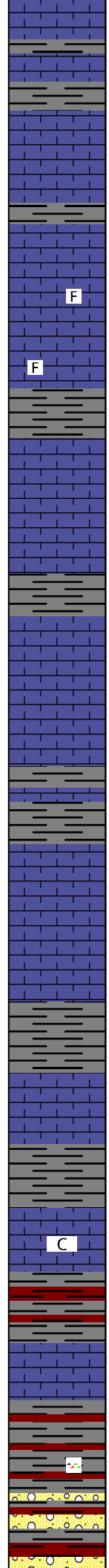
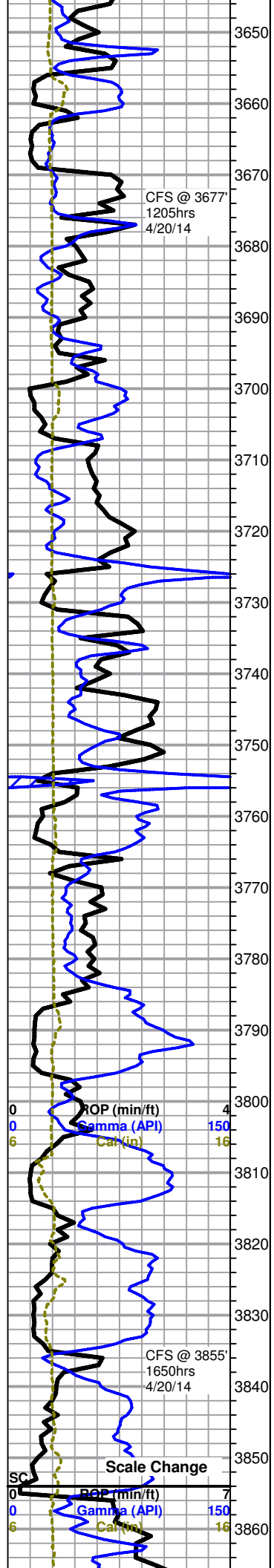
LS, cream to gray, micro-xln, oomoldic, dense with poor visible oomold porosity, barren, also with some scattered fossiliferous and lithographic, dense with poor visible porosity, no shows or odor

LS as above, slightly chalky, no shows or odor

LS, cream to gray with some scattered light brown, micro-xln, some slightly fossiliferous, some scattered sub-oolitic to oomoldic, barren

Mud-Co Mud chk  
3550'  
4/2014  
Vis: 50 Wt: 9.2  
PV:15 YP:14  
WL: 8.0  
Cake:1/32  
pH: 9.0  
Ca: 20  
CHL: 5,100ppm  
Sol: 6.1 LCM: 1  
DMC: \$1,825.85  
CMC: \$8,284.85

**Total Gas (units) 200**  
**C1 (units) 300**  
**C2 (units) 300**  
**C3 (units) 300**  
**C4 (units) 300**



slightly fossiliferous, some scattered sub-oomoldic to oomoldic, barren and dense with poor visible porosity, slightly chalky, no shows or odor

LS, cream, micro-xln, sub-oomoldic to oomoldic with some scattered oolitic to sub-oolitic, with poor to fair visible oomold porosity, barren, no odor

LS, cream to gray, micro-xln, some fossiliferous, some lithographic, dense with poor visible porosity, also with some scattered oolitic to oomoldic with poor to fair oomold porosity, barren, no odor

LS, cream to light gray, micro-xln, some scattered slightly fossiliferous, some lithographic, mostly dense with poor visible porosity, no shows or odor

**Stark Shale 3726 (-1681)**

LS, cream to light gray, micro-xln, some scattered slightly fossiliferous, some very scattered sub-oolitic to oolitic, dense with poor visible porosity, no shows or odor

LS, cream to light gray, micro-xln, mostly lithographic, some scattered slightly fossiliferous, dense with poor visible porosity, no shows or odor

LS, light gray to cream, micro-xln, lithographic and dense with poor visible porosity, no odor, no shows

**BKC 3786 (-1741)**

**Marmaton 3796 (-1751)**

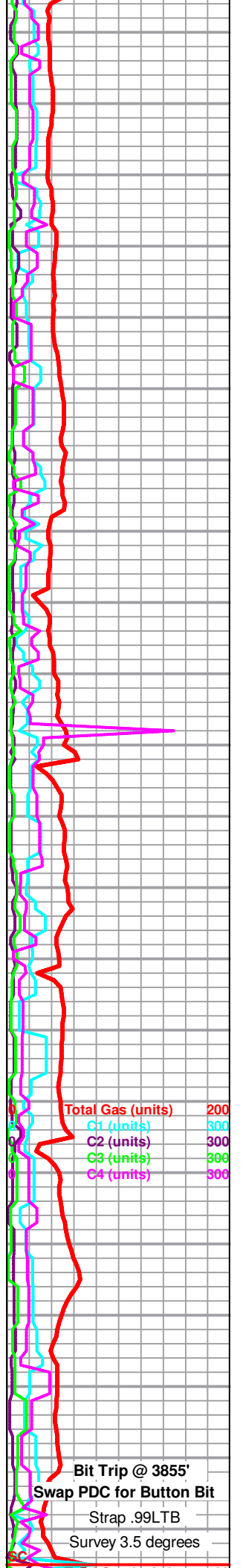
LS, cream to light gray/green with some scattered light brown, micro-xln, mostly lithographic, some scattered fossiliferous, dense with poor visible porosity, no shows or odor

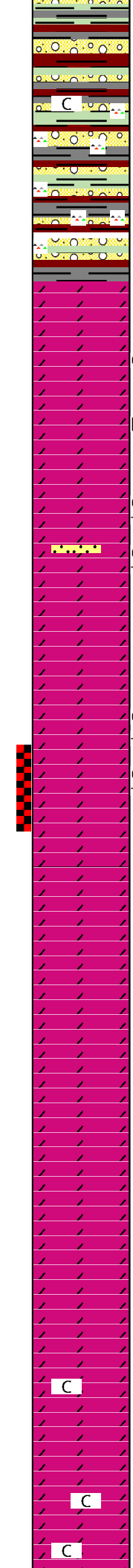
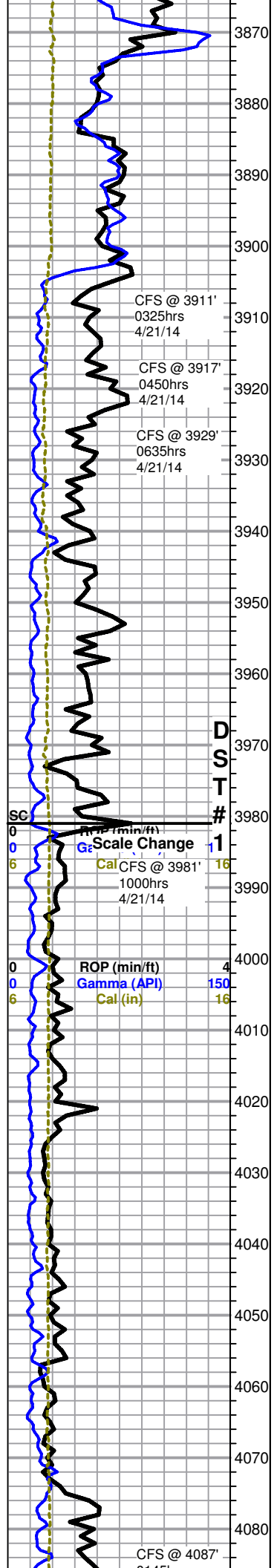
LS, cream to light gray/pale green with some scattered light brown, micro-xln, mostly lithographic and dense with poor visible porosity, also with some scattered white to off white, soft and chalky in part, no shows or odor

LS as above, also with some mixed gray and red shales, no shows or odor

Mixed cream and gray LS, mostly lithographic, some slightly fossiliferous, also with mixed red and gray shales as above with trace orange chert, no shows or odor

Mixed cream and gray LS, some fossiliferous, some lithographic, dense with poor visible porosity, some very scattered oolitic to oomoldic with some fine oolitic to oomoldic with scattered oolitic to oomoldic with some





poor to fair visible porosity, also with abundant gray shale with some scattered red and trace olive green to green, no shows or odor

Mixed LS and shales as above, with trace orange chert, slightly chalky, slight red wash in cup

Mixed LS and shales, also with some orange to red and tan and opaque cherts, red wash, no shows or odor

As above, also with some white chert and scattered translucent oolitic, red wash, no shows or odor

**Arbuckle 3905 (-1860)**

3911' 30" Mixed LS, shales, and cherts, with some scattered dolomite, cream to white, micro-xln, hard and dense with no visible porosity, poor odor in wet cup

3911' 60" mostly same as above, with few chips (<5% of tray) sub-sucrosic with poor visible porosity, friable, barren, fair odor in wet cup

3917' 30" Dolomite as above, found one chip with some rhombic to sub-rhombic development on one edge with very poor, very scattered inter-xln spotted brown to black stain on edge only, chip also has one small vug, barren, very weak cut, no odor in wet cup

3917' 60" Dolomite, cream to off-white, micro-xln, mostly hard and dense as above, with slight influx of sub-sucrosic with poor visible porosity, few chips friable, barren, poor fleeting odor in wet cup

3929' 30" Dolomite, cream, micro-xln, mostly hard and dense with no visible porosity, barren, some scattered (~25% of dolomite) sub-sucrosic with poor visible porosity, mostly dense, few chips friable, few very scattered chips (~<5%) with one to two small vugs, mostly barren, several chips with very scattered spotty dead black gilsonitic stain, poor odor in cup

3929' 60" mostly same as above, barren, gilsonitic stain appears to be dropping out, very poor fleeting odor in wet cup

~3935' Dolomite, cream to off white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, few chips with fair rhombic development, mostly dense with poor visible porosity, some scattered with poor to fair visible inter-xln porosity, few chips (<5%) of sample with very scattered flaky dead brown stain in porosity, one chip with very slight show free oil when agitated with tweezers (2 brown drops), chip too dense to break, no cut, fair show gas bubbles in wet tray, no odor

~3945' Mostly same as above, also found one sand cluster, medium grained, rounded clear quartz grains, fairly well sorted, with flaky brown to black very scattered stain, upon break cluster releases good show free oil (tarry, clingy, black drops) and fair show gas bubbles, no odor in wet cup

~ 3960' Dolomite, off white to cream, micro-xln, some hard and dense with poor visible porosity, also with some scattered (~25% of dolomite) sub-sucrosic to sucrosic with poor to fair rhombic development, few chips with fair visible inter-xln porosity, mostly barren, one chip with slight show free oil (2-3 light brown droplets) upon break, fair show gas bubbles in wet tray, no odor

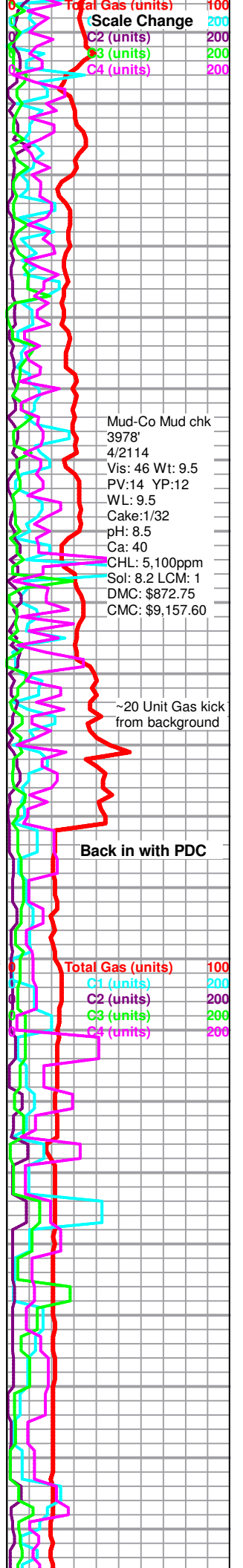
3981' 30" Dolomite, white to off-white, micro-xln, some sub-sucrosic and dense with poor visible porosity, also with some sucrosic, fair to good rhombic development, some with fair visible inter-xln porosity, appears barren, upon break chips have good show free oil, weak cut, slight show free oil and fair show gas bubbles in wet tray, fair fleeting odor

60" Mostly same as above

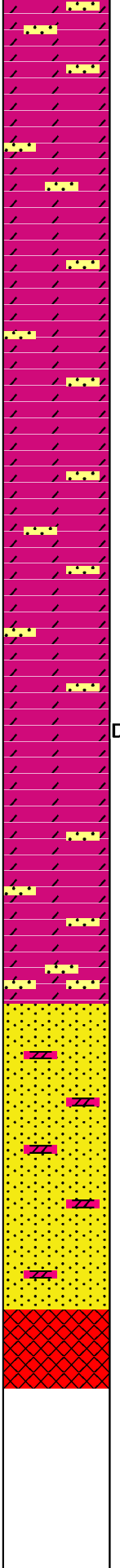
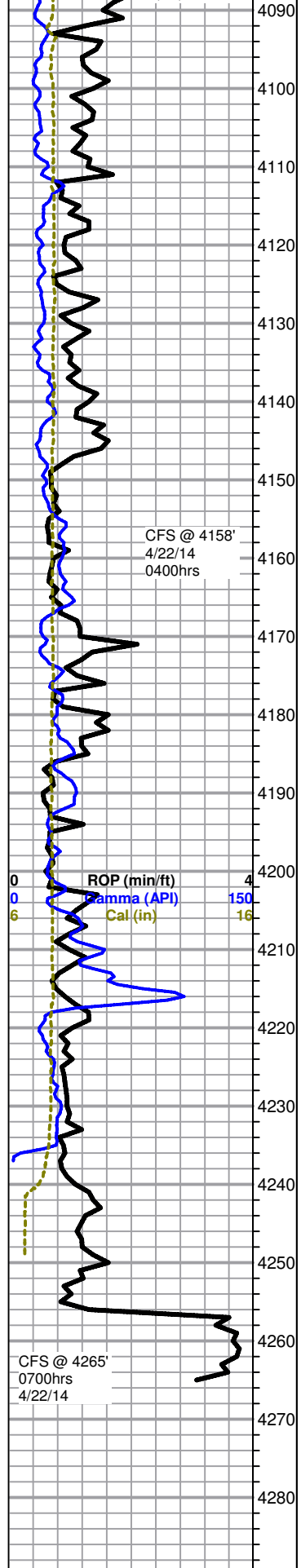
~3990 Dolomite, white to off-white, micro-xln, sub-sucrosic to sucrosic with poor to fair visible inter-xln porosity, some dense, some fairly friable, no shows or odor

Dolomite as above, slightly chalky

4087' 30" Dolomite, white to off-white, micro-med xln, sub-sucrosic to sucrosic, with poor to fair rhombic development and poor to fair visible porosity, some scattered glauconitic, also with some scattered large clear dolomite crystals, trace pyrite, fairly chalky, no shows or odor



0145hrs  
4/22/14



Dolomite as above, some scattered slightly pyritic, with influx of large clear dolomite crystals, some also pyritic, also with Dolomite Sand (~40% of tray), clear, fine-med grained, sub-rounded to rounded grains set in a micro-crypto xn dolomite matrix (mechanical erosion?), no shows or odor

Dolomite Sand as above, with some scattered sub-sucrosic to sucrosic with poor to fair visible porosity, no shows or odor

Dolomite, cream to off-white, mixed hard and dense and sub-sucrosic to sucrosic, mostly dense with poor visible porosity, with some dolomite sand (~15-20% of tray) as above, no shows or odor

4158' 30" Dolomite, micro-xn, some hard and dense, some sub-sucrosic with poor to fair rhombic development, with some dolomite sand, slightly chalky, no shows or odor

Dolomite, white to off-white, micro-xn, mostly sandy with some hard and dense, barren, also with some scattered sand clusters (~15-20% of tray), clear, fine-grained, sub-rounded to rounded, few clusters slightly glauconitic, fairly well sorted, some well cemented and dense, few clusters friable, barren, no odor in wet cup

As above, found one chip dolomite, micro-xn, sub-sucrosic, with scattered black dead gilsonitic stain, no odor in cup

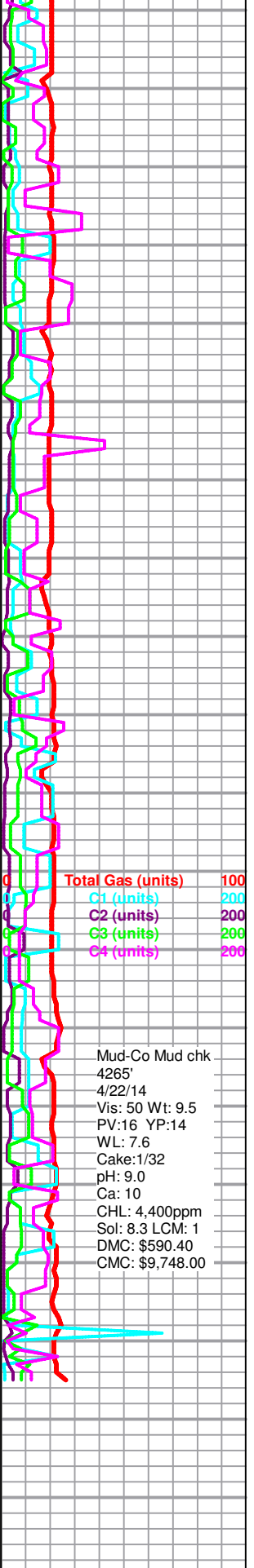
Dolomite, cream to off-white, hard and dense, some sandy, very scattered sub-sucrosic, dense with poor visible porosity, with some scattered sand clusters as above, few vi-grained, green, very friable, barren, no odor

**Reagan 4217 (-2172)**

Dolomite and scattered sand clusters as above, no shows or odor

4265' 30" Dolomite and sandy dolomite, with granite, orange feldspar/clear quartz with trace biotite, also with abundant quartz sand grains in bottom of tray, clear, sub-rounded to rounded, no shows or odor

60" Mostly same as above with influx of granite



**Total Gas (units) 100**  
**C1 (units) 200**  
**C2 (units) 200**  
**C3 (units) 200**  
**C4 (units) 200**

Mud-Co Mud chk  
 4265'  
 4/22/14  
 Vis: 50 Wt: 9.5  
 PV:16 YP:14  
 WL: 7.6  
 Cake:1/32  
 pH: 9.0  
 Ca: 10  
 CHL: 4,400ppm  
 Sol: 8.3 LCM: 1  
 DMC: \$590.40  
 CMC: \$9,748.00

**Rotary TD 4265' @ 0725hrs 4/22/14**  
**Nabors Well Services Logging TD @ 4264'**  
**Complete Logging Operations @ hrs 4/23/14**  
**Geologist Jeremy Schwartz off location @ 1515hrs 4/23/14**