



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1072454  
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: \_\_\_\_\_

1072454

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	KIRK 1-5(SE)
Doc ID	1072454

All Electric Logs Run

CNL/CDL
BHCS
DIL
MEL

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	KIRK 1-5(SE)
Doc ID	1072454

Tops

Name	Top	Datum
STOTLER	3675	-1232
LANSING	4569	-2126
BKC	5018	-2575
MARMATON	5036	-2593
PAWNEE	5115	-2672
CHEROKEE	5162	-2719
MORROW SH	5269	-2826
MISS	5300	-2857
COWLEY	5780	-3337

# ALLIED CEMENTING CO., LLC. 037813

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Madison, KS

DATE <u>10 07 11</u>	SEC. <u>05</u>	TWP. <u>30S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Kirk</u>	WELL # <u>1-5 (SE)</u>	LOCATION <u>Kingsdown, KS, 4 1/2 S, 1 E, N/S</u>			COUNTY <u>Clark</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Val #3  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 655  
 CASING SIZE 8 5/8 DEPTH 655  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 700# MINIMUM —  
 MEAS. LINE SHOE JOINT 42  
 CEMENT LEFT IN CSG. 42'  
 PERFS.  
 DISPLACEMENT 39% Bbls Fresh H<sub>2</sub>O

OWNER Falcon Expto.  
 CEMENT  
 AMOUNT ORDERED 22.5 x 65:35:6% gel + 3% cc + 1/4" Floeal # 150 sx class A + 3% cc + 2% gel  
 COMMON 150 sx @ 16.25 2437.50  
 POZMIX @  
 GEL 3 sx @ 21.25 63.75  
 CHLORIDE 13 @ 58.20 756.60  
 ASC @  
Floeal 56" @ 2.70 151.20  
Light weight 225 @ 15.00 3375.00  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 HANDLING 405 @ 2.25 911.25  
 MILEAGE 405 / 75 / 11 3341.25  
 TOTAL 11,036.55

EQUIPMENT  
 PUMP TRUCK CEMENTER D. Felix  
 # 360-365 HELPER J. Thimesch  
 BULK TRUCK  
 # 421-252 DRIVER A. Miller  
 BULK TRUCK  
 # DRIVER

REMARKS:  
Pipe on Bttm, Break Circ, Pump Spacers, Mix 22.5 x light weight cement, Mix 150 sx tail cement, Stop Pump, Release Plug, Start Disp. w/ Fresh H<sub>2</sub>O, Wash up on Plug, See steady increase in PSI, @ Slow Rate, Bump Plug at 39% Bbl total Disp., Shut in, Cement Did Circ.

CHARGE TO: Falcon Expto.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE  
 DEPTH OF JOB 655  
 PUMP TRUCK CHARGE 1125.00  
 EXTRA FOOTAGE 355 @ .95 337.25  
 MILEAGE 150 @ 7.00 1050.00  
 MANIFOLD Head Rental @ 200.00  
Light Vehicle 150 @ 4.00 600.00  
 @  
 TOTAL 3312.25

PLUG & FLOAT EQUIPMENT  
1- TRP @ 112.00  
2- centralizers @ 64.00 128.00  
3- cement Baskets @ 478.00 1434.00  
1- Baffle Plate @ 112.00 112.00  
 @  
 TOTAL 1786.00

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

PRINTED NAME \_\_\_\_\_  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 16,134.80  
 DISCOUNT 20% IF PAID IN 30 DAYS  
NET 12,907.84

8 5/8

# ALLIED CEMENTING CO., LLC. 037880

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
*Medicine Lodge KS*

DATE <i>10-21-2011</i>	SEC. <i>5</i>	TWP. <i>30s</i>	RANGE <i>22w</i>	CALLED OUT	ON LOCATION <i>5:00 pm</i>	JOB START <i>9:00 pm</i>	JOB FINISH <i>12:00 pm</i>
LEASE <i>Kirk</i>	WELL# <i>1-5</i>	LOCATION <i>Kingsdown, Ks, 5 south,</i>			COUNTY <i>CLSK</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)				<i>1 east, n into</i>			

CONTRACTOR *VCI #3*  
 TYPE OF JOB *Roadry plus*  
 HOLE SIZE *7 7/8* T.D.  
 CASING SIZE DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE *4 1/2* DEPTH *14.50'*  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT *3 water, 12 mud*

OWNER *Falcon Exploration*  
 CEMENT  
 AMOUNT ORDERED *210 Sk 60' 40' 4 1/2 Gal*

EQUIPMENT  
 PUMP TRUCK CEMENTER *Darin F*  
 # *360-265* HELPER *Jason T*  
 BULK TRUCK  
 # *456-239* DRIVER *Ruben*  
 BULK TRUCK  
 # DRIVER

COMMON <i>A</i>	<i>126 sk</i>	@ <i>16.25</i>	<i>2047.50</i>
POZMIX	<i>84 sk</i>	@ <i>8.50</i>	<i>714.00</i>
GEL	<i>8 sk</i>	@ <i>21.25</i>	<i>170.00</i>
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>218</i>	@ <i>2.25</i>	<i>490.50</i>
MILEAGE	<i>218/75/11</i>		<i>1798.50</i>
			TOTAL <i>5220.50</i>

REMARKS:  
*1st plus-1450' - 8 water check, mix 30sk, Displace*  
*3 water, 12 mud*  
*2nd plus-650' - 12 water ahead, mix 30sk Displace*  
*4 water*  
*3rd plus-360-~~400~~ 9 water check, mix 30sk, Displace*  
*3 1/2 water*  
*4th plus-60' mix 20sk Cement*  
*Recheck - mix 30sk Cement, mousecheck - mix 20sk*

**SERVICE**

DEPTH OF JOB	<i>1450'</i>	
PUMP TRUCK CHARGE	<i>1250.00</i>	
EXTRA FOOTAGE	@	
MILEAGE	<i>150</i>	@ <i>7.00</i> <i>1050.00</i>
MANIFOLD	@	
<i>light vehicle</i>	<i>150</i>	@ <i>4.00</i> <i>600.00</i>
	@	
TOTAL <i>2900.00</i>		

CHARGE TO: *Falcon Exploration*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

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

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES *8120.50*  
 DISCOUNT *20%* IF PAID IN 30 DAYS  
*NET 6496.40*

PRINTED NAME *X* \_\_\_\_\_  
 SIGNATURE *x Michael P. II* \_\_\_\_\_  
*Thank you!!!*

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 23, 2012

CYNDE WOLF  
Falcon Exploration, Inc.  
125 N MARKET STE 1252  
WICHITA, KS 67202-1719

Re: ACO1  
API 15-025-21531-00-00  
KIRK 1-5(SE)  
SE/4 Sec.05-30S-22W  
Clark 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,  
CYNDE WOLF

Company	<b>Falcon Exploration, Inc.</b>	Lease Name	<b>Kirk (SE)</b>	
Address	<b>125 N. Market, Ste 1252</b>	Lease #	<b>1-5</b>	
CSZ	<b>Wichita, KS 67202</b>	Legal Desc	<b>N/2-SE-SE-SE</b>	Job Ticket <b>2168</b>
Attn.	<b>Mac Armstrong</b>	Section	<b>5</b>	Range <b>22W</b>
		Township	<b>30S</b>	
		County	<b>Clark</b>	State <b>KS</b>
		Drilling Cont	<b>Val Energy, Inc. Rig #3</b>	
Comments	<b>Legal Description in Feet: 540' FSL &amp; 330' FEL</b>			

**GENERAL INFORMATION**

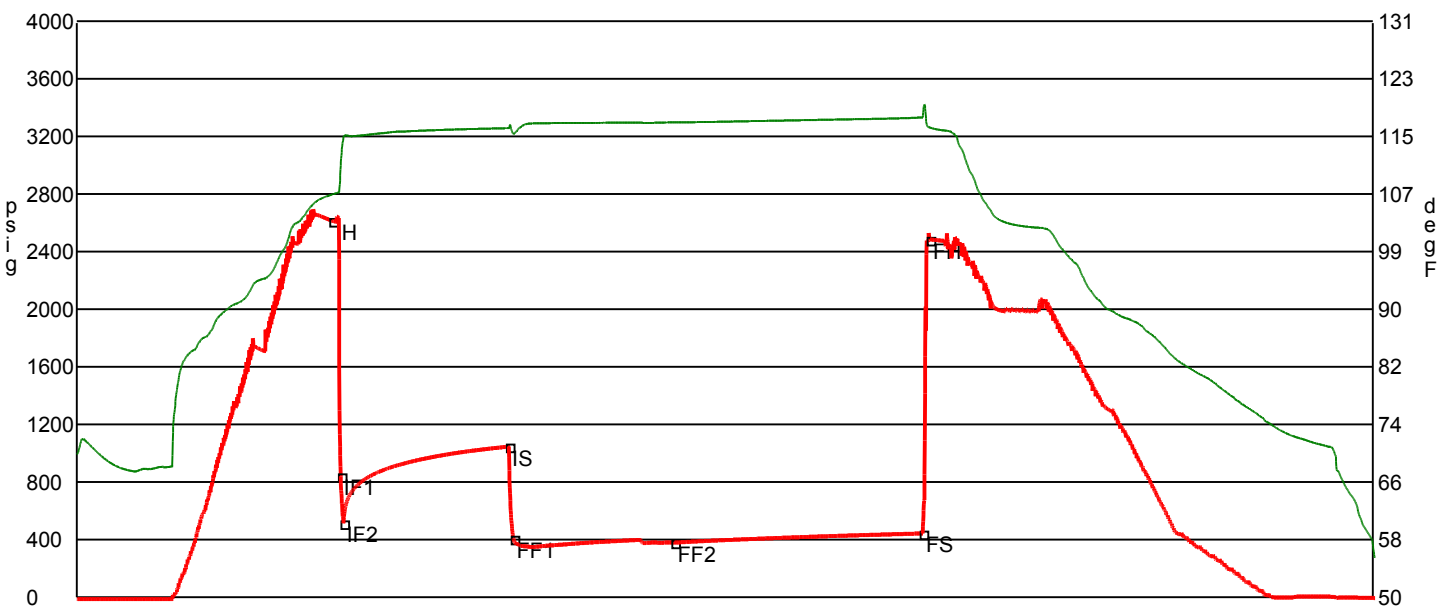
Test # 1	Test Date	<b>10/18/2011</b>	Chokes	<b>3/4</b>	Hole Size	<b>7 7/8</b>
Tester	<b>Tim Venters</b>		Top Recorder #	<b>W1119</b>		
Test Type	<b>Conventional Bottom Hole Successful Test</b>		Mid Recorder #	<b>W1023</b>		
			Bott Recorder #	<b>13310</b>		
# of Packers	<b>2.0</b>	Packer Size	<b>6 3/4</b>	Mileage	<b>128</b>	Approved By
				Standby Time	<b>6</b>	
Mud Type	<b>Gel Chem</b>			Extra Equipmnt	<b>Jars &amp; Safety joint</b>	
Mud Weight	<b>9.3</b>	Viscosity	<b>56.0</b>	Time on Site	<b>5:30 AM</b>	
Filtrate	<b>9.2</b>	Chlorides	<b>9000</b>	Tool Picked Up	<b>1:00 PM</b>	
				Tool Layed Dwn	<b>3:25 AM</b>	
Drill Collar Len	<b>0</b>			Elevation	<b>2433.00</b>	Kelley Bushings <b>2443.00</b>
Wght Pipe Len	<b>0</b>					
Formation	<b>Mississippian</b>		Start Date/Time	<b>10/17/2011 11:45 AM</b>		
Interval Top	<b>5314.0</b>	Bottom	<b>5342.0</b>	End Date/Time	<b>10/18/2011 3:27 AM</b>	
Anchor Len Below	<b>28.0</b>	Between	<b>0</b>			
Total Depth	<b>5342.0</b>					
Blow Type	<b>Very strong blow throughout the intitial flow period, hitting the bottom of the bucket instantaneously. Very strong blow at the start of the final flow period, hitting the bottom of the bucket instantaneously. Gas to surface in 30 seconds . The blow would be strong for a while, and then deplete, and then be strong, t hen deplete, etc. Like at 40 min. gas was too small to measure. Weak surface blo w back at the start of the final shut-in period, building to 9 1/2 inches. Time s: 3, 120, 120, 180.</b>					

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
4440	Gas in Pipe	100%	4440ft	0% 0ft	0% 0ft
65	Mud	0%	0ft	0% 0ft	100%65ft
190	Gassy, slight oil cut mud	17%	32.3ft	3% 5.7ft	0% 0ft
125	Gassy, water and mud cut oil	20%	25ft	52% 65ft	18% 22.5ft
440	Gassy, oil and mud cut water	21%	92.4ft	26% 114.4ft	43% 189.2ft
30	Gassy, slight oil and mud cut water	7%	2.1ft	3% 0.9ft	78% 23.4ft

DST Fluids **67000**





	Date	Time	Pressure	Temp	
IH	10/17/2011 2:49:40 PM	3.077778	2614.341	106.673	Initial Hydro-static
IF1	10/17/2011 2:55:50 PM	3.180556	840.156	110.712	Initial Flow (1)
IF2	10/17/2011 2:57:50 PM	3.213889	514.277	114.74	Initial Flow (2)
IS	10/17/2011 4:58:10 PM	5.219444	1047.001	115.983	Initial Shut-In
FF1	10/17/2011 5:01:30 PM	5.275	408.367	115.192	Final Flow (1)
FF2	10/17/2011 6:58:30 PM	7.225	380.045	116.795	Final Flow (2)
FS	10/17/2011 9:59:00 PM	10.233333	443.926	117.49	Final Shut-In
FH	10/17/2011 10:04:10 PM	10.319444	2482.896	116.057	Final Hydro-static

**GAS FLOWS**

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	78.10 mcf	5.00 psig	0.50 in
0	20	59.20 mcf	3.00 psig	0.50 in
0	30	20.90 mcf	11.00 h2o	0.50 in
0	97	5.60 mcf	11.00 h2o	0.25 in
0	100	3.71 mcf	3.71 h2o	0.25 in

# MACKLIN M. ARMSTRONG

## Geologist

Kansas License Number 743

316-209-5047

Scale 1:240 Imperial

Well Name: Kirk No. 1-5(SE)  
Surface Location: Sec 5 T30S R22W  
Bottom Location: 540' FSL and 330' FEL  
API: 15-025-21531  
License Number: 5316  
Spud Date: 10/6/2011 Time: 12:30 PM  
Region: Clark County, Kansas  
Drilling Completed: 10/21/2011 Time: 4:21 PM  
Surface Coordinates:  
Bottom Hole Coordinates:  
Ground Elevation: 2433.00ft  
K.B. Elevation: 2443.00ft  
Logged Interval: 3600.00ft To: 5990.00ft  
Total Depth: 5990.00ft  
Formation:  
Drilling Fluid Type: Chemical/Fresh Water Gel

### OPERATOR

Company: Falcon Exploration, Inc.  
Address: 125 North Market  
Wichita, Kansas 67202  
Contact Geologist:  
Contact Phone Nbr: 316-262-1378  
Well Name: Kirk No. 1-5(SE)  
Location: Sec 5 T30S R22W API: 15-025-21531  
Pool: Wildcat Field: Wildcat  
State: Kansas Country: Clark

### CONTRACTOR

Contractor: Val Energy  
Rig #: 3  
Rig Type: mud rotary  
Spud Date: 10/6/2011 Time: 12:30 PM  
TD Date: 10/21/2011 Time: 4:21 PM  
Rig Release: 10/21/2011 Time: 11:00 AM

### ELEVATIONS

K.B. Elevation: 2443.00ft Ground Elevation: 2433.00ft  
K.B. to Ground: 10.00ft

### SURFACE CO-ORDINATES

Well Type: Vertical

Well Type: vertical  
 Longitude: 99.73911  
 N/S Co-ord:  
 E/W Co-ord:

Latitude: 37.45431

**NOTES**

Date	Depth	Activity
10-06-11	MIRU	Spud at 12:30 pm
10-07-11	625	Drilling
10-08-11	1167	Drilling
10-09-11	2483	Drilling
10-10-11	3049	TOH to fish for Drill Collars
10-11-11	3162	Drilling
10-12-11	3593	Drilling
10-13-11	4180	Drilling
10-14-11	4597	TOH to repair Rotary Table
10-15-11	4697	Drilling Ahead
10-16-11	5082	Drilling Ahead
10-17-11	5342	CTCH
10-18-11	5342	TIH after DST No. 1
10-19-11	5584	Drilling Ahead
10-20-11	5880	Drilling Ahead
10-21-11	5990	P & A

Surface Casing: 8 5/8" 23# at 655'  
 Production Casing: None Set

Deviation: 655 - 1 deg  
 3173 - 1 1/4 deg  
 4597 - 1 1/4 deg  
 5342 - 1 3/4 deg  
 5990 - 3/4 deg

Bit Record:	Make	Type	Depth In	Depth Out	Hours
	JZ 7 7/8"	QX20	655	5524	150 1/2
	JZ 7 7/8"	QX20	5524	5990	35 1/4

**Drill Stem Tests:**

DST No. 1 5314 to 5342  
 3-120-120-180  
 IHP 2614 FHP 2483  
 IFP 840-514 FFP 408-380  
 ISIP 1047 FSIP 444  
 Temp 116 deg  
 Gas Flows during FFP: 10" - 78.1 mcf, 20" - 59.2 mcf, 30" - 20.9 mcf, 97" - 5.6 mcf, 100" - 3.71 mcf  
 Recovery: 4440' Gas in Pipe  
 65' Mud  
 190' GSOCM - 17%G, 3%O, 80%M  
 125' GWMCO - 20%G, 18%W, 10%M, 52%O  
 440' GOMCW - 21%G, 26%O, 10%M, 43%W  
 30' GSOMCW - 7%G, 3%O, 12%M, 78%W (Chl 67,000 ppm)

Formation	Sample	E-Log	Datum	Well 1	Well 2
Root Shale	3610	3612	-1169	+15	-4
Stotler	3674	3675	-1232	+20	-3
King Hill	4177	4177	-1734	+9	+2
Heebner	4388	4390	-1947	+7	-1
Toronto	4405	4405	-1962	+8	0
Douglas	4430	4430	-1987	+1	-1
Brown Lime	4548	4549	-2106	+10	-2
Lansing	4568	4570	-2127	+11	+2
Stark	4910	4910	-2467	+17	+10

Swope	4917	4917	-2474	+18	+14
Hushpuckney	4947	4948	-2505	+17	+9
Hertha	4958	4960	-2517	+18	+12
B/Kansas City	5016	5018	-2575	+15	+10
Marmaton	5033	5035	-2592	+16	+11
Pawnee	5114	5115	-2672	+14	+10
Cherokee Shale	5161	5162	-2719	+13	+21
Inola	5257	5257	-2814	+12	+12
Morrow Shale	5268	5268	-2825	+7	+13
Mississippi	5290	5291	-2848	+22	+18
Cowley Facies	5776	5778	-3335	NP	NP
Total Depth	5990	5992	-3549		

Reference Well No. 1: Pickrell Drilling Company, Baldwin 'O' No. 1, NE NE Sec 8 T30S R22W  
Reference Well No. 2: Harris Oil and Gas, Baldwin No. 1-9, S2 NW NW Sec 9 T30S R22W

Due to the results of the Drill Stem Test and the electric log calculations, it was decided to plug this test well.

Respectfully submitted,  
Macklin M. Armstrong

### ROCK TYPES

Cht	Dolsec	shale, gry
Dolprim	Lmst fw7>	Carbon Sh

### ACCESSORIES

#### MINERAL

▲ Chert, dark

#### FOSSIL

F Fossils < 20%  
ϕ Oolite

### OTHER SYMBOLS

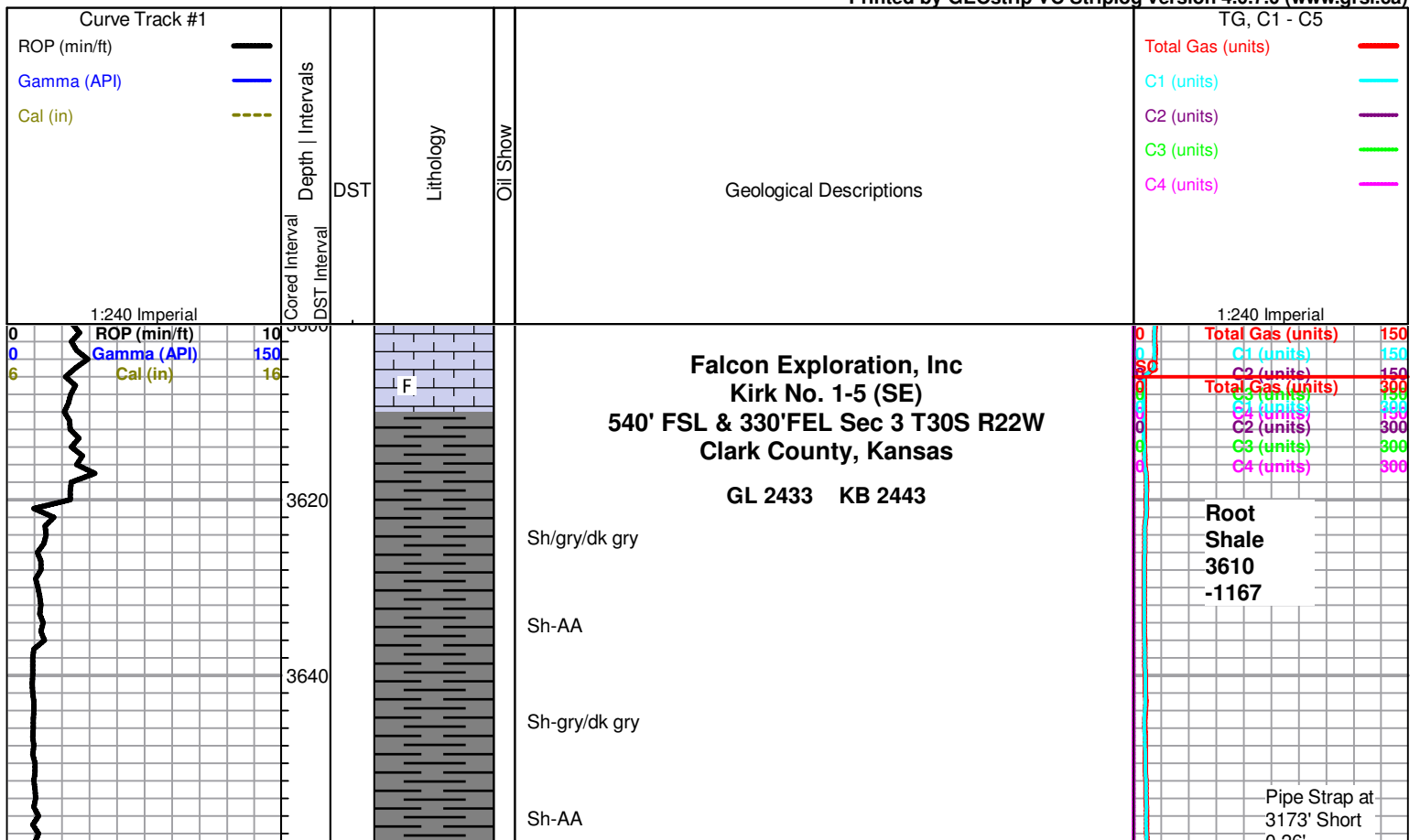
#### INTERVALS

■ Core  
• DST

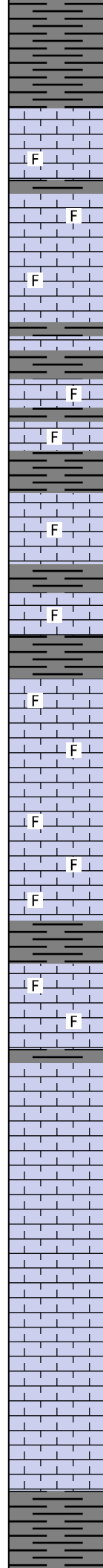
#### DST

■ DST Int  
■ DST alt  
■ Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



3660  
3680  
3700  
3720  
3740  
3760  
3780  
3800  
3820  
3840  
3860



Sh-AA

-----Stotler 3674 -1231-----

Ls-frm/tan/lt gry f/mxln mhd/dns sl fos no por

Sh-gry/dk gry

Ls-frm/tan/lt gry f/mxln mhd/dns sl fos no por

Ls-frm/tan f/mxln mhd sl fos no por

Sh-gry/dk gry

Sh-AA

Ls-tan/gry f/mxln mhd sl fos no por sm Ls-tan oom

Sh-gry/dk gry

Ls-AA

Sh-gry/dk gry

Ls-tan/gry f/mxln mhd sl fos no por

Sh-gry/dk gry

Ls-tan/gry f/mxln mhd/dns sl fos no por sm Ls-tan oom

Sh-gry/dk gry

Ls-frm/tan f/mxln mhd/dns sl fos no por

Ls-AA

Ls-frm/tan f/mxln mhd/dns sl fos no por

Ls-AA

Sh-gry/dk gry

Ls-frm/tan f/mxln mhd/dns sl fos no por

Ls-frm tan f/mxln mhd sl fos trc xln por ns

Sh-gry/dk gry

Ls-frm/tan/lt gry f/mxln mhd/dns no por

Ls-AA

Ls-lt gry/tan fxln mhd no pos

Ls-lt gry/tan fxln dns no por

Ls-AA

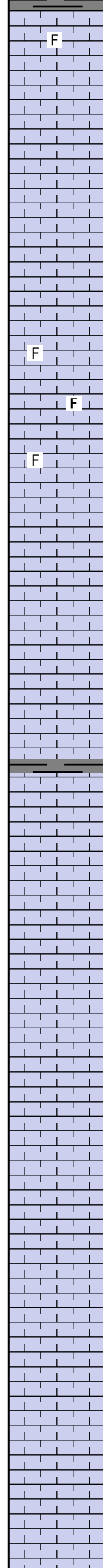
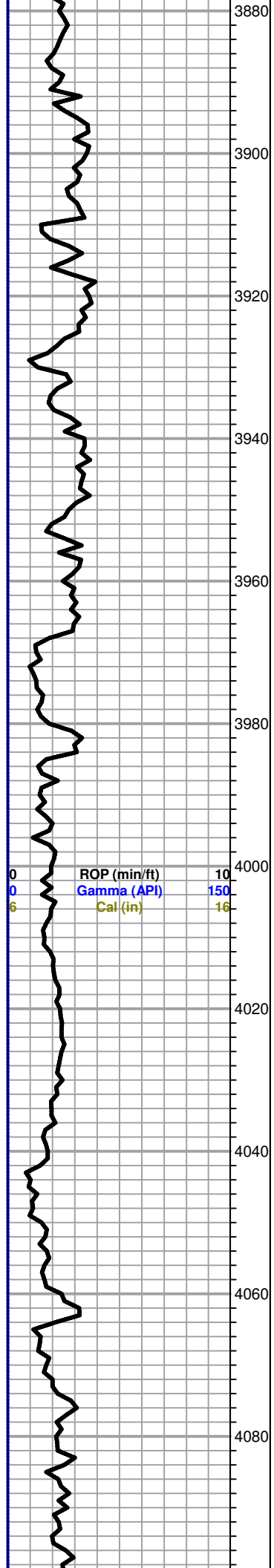
Ls-lt gry/tan fxln mhd trc xln por ns

Ls-lt gry/tan fxln dns no por

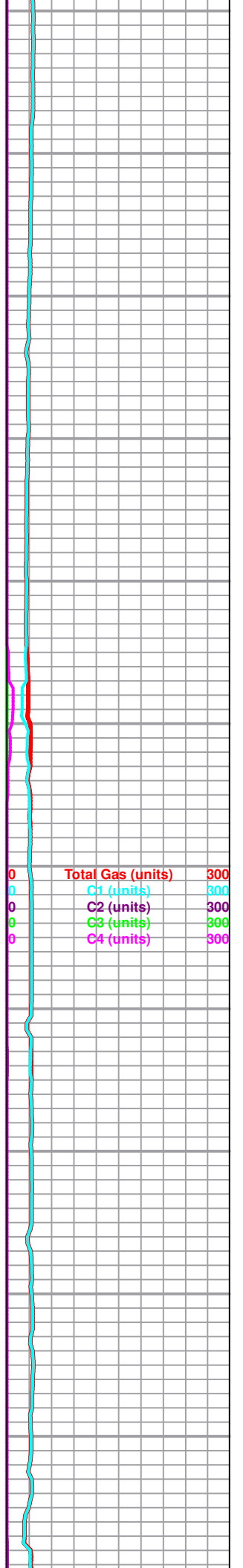
Sh-gry/dk gry

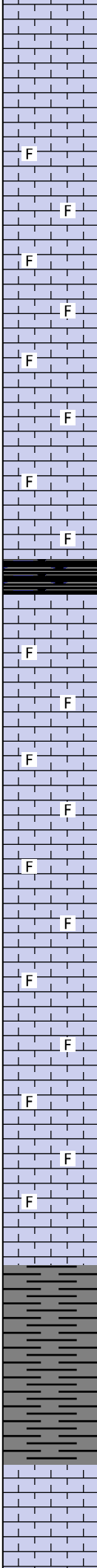
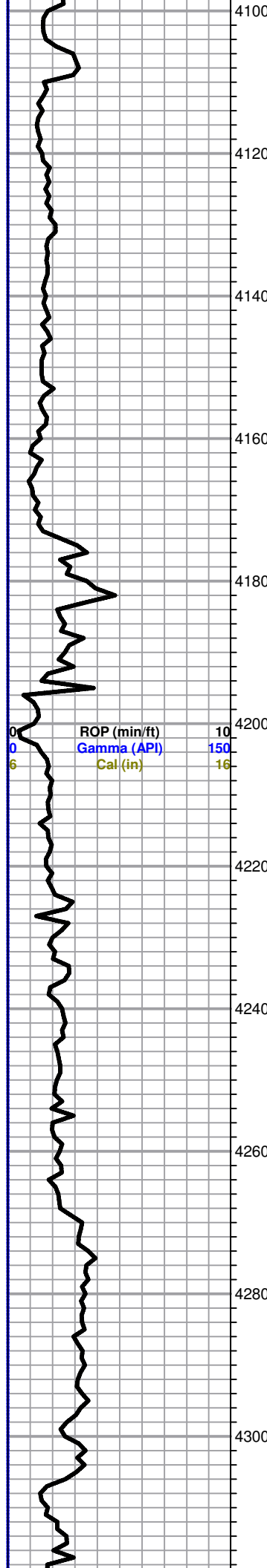
0	ROP (min/ft)	10
0	Gamma (API)	150
6	Cal (in)	16

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

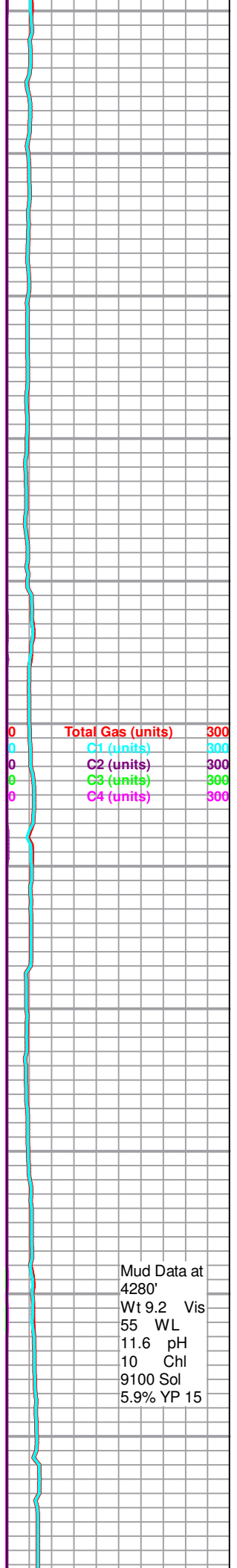


Ls-lt gry/tan/crm fxln mhd/dns sl fos no por  
 Ls-AA  
 Ls-lt gry/crm/tan fxln dns no por  
 Ls-AA  
 Ls-lt gry/tan f/mxln mhd trc xln por ns  
 Ls-lt gry/tan fxln dns no por  
 F  
 Ls-crm/tan f/mxln mhd sl fos trc xln por ns  
 F  
 Ls-crm/tan f/mxln mhd/dns sl for no por  
 F  
 Ls-AA  
 Ls-crm/tan fxln mhd trc xln por ns  
 Ls-crm/tan fxln mhd/dns no por  
 Ls-crm/tan fxln s/mhd trc xln por ns  
 Ls-crm/tan fxln mhd/dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/tanfxln mhd no por  
 Ls-AA  
 Ls-lt gry/tan fxln mhd/dns no por  
 Ls-AA  
 Ls-lt gry/tan fxln mhd/dns no por  
 Ls-crm/tan f/mxln s/mhd sl clkx trcxln por ns  
 Ls-AA  
 Ls-crm tan fxln mhd/dns no por  
 Ls-crm/tan f/mxln s/mhd no por sm Ls-crm/wt fxln clkx  
 Ls-crm/tan fxln mhd/dns no por  
 Ls-AA

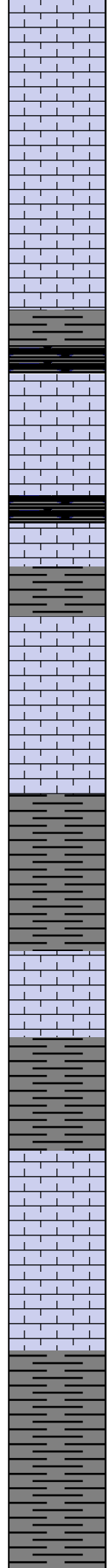
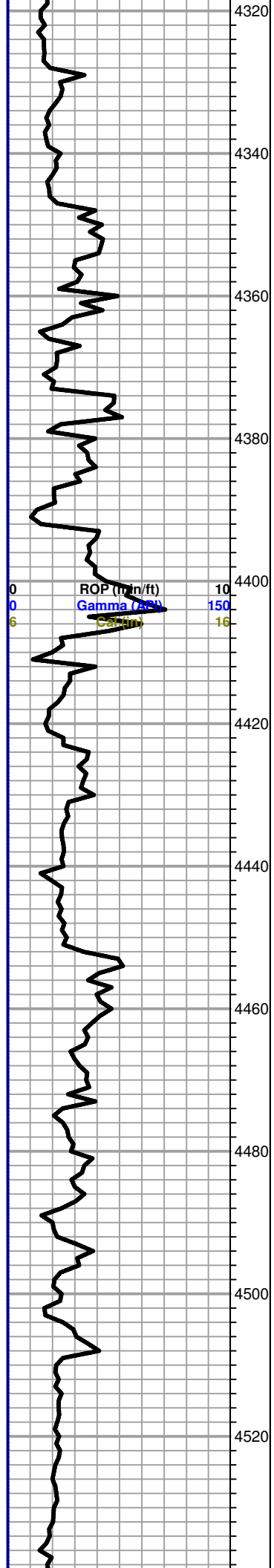




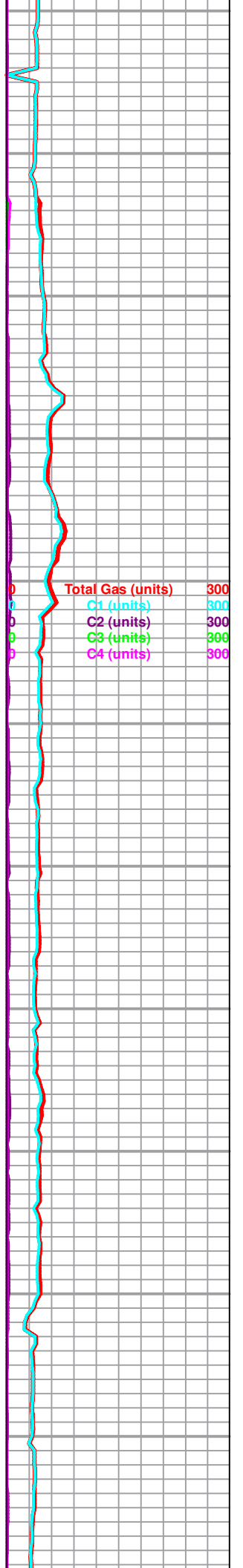
Ls-tan/lt gry fxln trc xln por ns  
 Ls-tan/lt gry fxln dns no por  
 Ls-tan f/mxln mhd sl fos no por  
 Ls-AA  
 Ls-tan f/mxln mhs sl fos no por  
 Ls-AA  
 Ls-AA  
 Ls-tan/gry f/mxln mhd/dns sl fos no por  
 -----King Hill 4177 -1734-----  
 Sh-blk carb  
 Ls-tan/gry f/mxln mhd/dns sl for no por  
 Ls-AA  
 Ls-crm/tan f/mxln soft sl clky trc xln por ns  
 Ls-crm/tan f/mxln mhd sl fos no por  
 Ls-AA  
 Ls-crm/tan fxln mhd/dns sl fos no por  
 Ls-AA  
 Ls-lt gry/tan f/mxln mhd/dns sl fos no por  
 Ls-AA  
 Ls-lt gry/crm/tan f/mxln mhd/dns sl fos no por  
 Ls-lt gry/tan f/mxln dns no por  
 Sh-gry/dk gry/slty  
 Sh-AA  
 Sh-AA  
 Ls-tan/lt gry fxln sm mxln mhd no por



Mud Data at  
 4280'  
 Wt 9.2 Vis  
 55 WL  
 11.6 pH  
 10 Chl  
 9100 Sol  
 5.9% YP 15

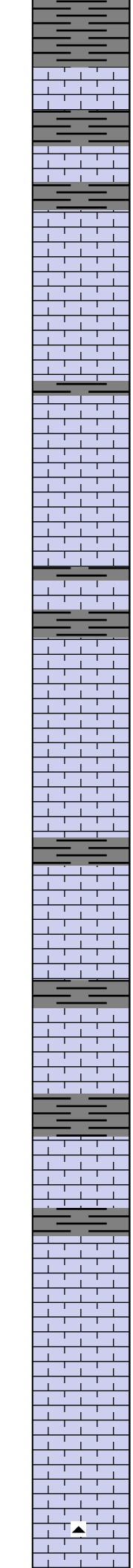
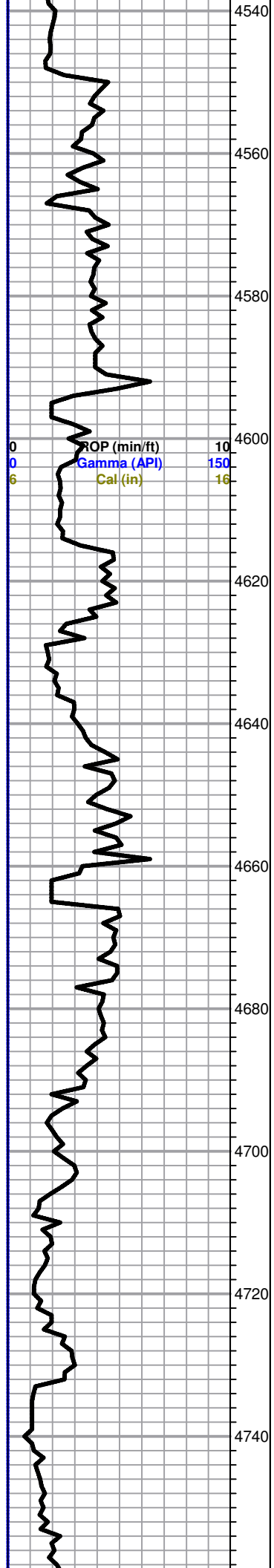


Ls-crm/tan f/mxln mhd no por  
 Ls-lt gry/crm fxln mhd no por  
 Ls-AA  
 Ls-lt gry/crm fxln dns no por  
 Ls-AA  
 Sh-gry/dk gry  
 Sh-blk carb  
 Ls-tan/lt gry fxln dns no por  
 Ls-AA  
 -----Heebner 4388 -1945-----  
 Sh-blk carb  
 Ls-tan/lt gry fxln dns no por  
 Sh-gry/dk gry  
 -----Toronto 4405 -1962-----  
 Ls-crm/wt fxln s/mhd trc xln por ns  
 Ls-AA  
 Ls-crm fxln mhd/dns no pot  
 -----Douglas 4430 -1987-----  
 Sh-gry/dk gry  
 Sh-AA  
 Ls-crm fxln dns no por  
 Sh-gry/dk gry  
 Sh-AA  
 Ls-tan/lt brn fxln dns no por  
 Ls-tan/lt brn fxln mhd/dns no por  
 Ls-tan fxln dns no por  
 Ls-tan fxln mhd/dns no por  
 Sh-gry/dk gry  
 Sh-AA  
 Sh-gry/dk gry

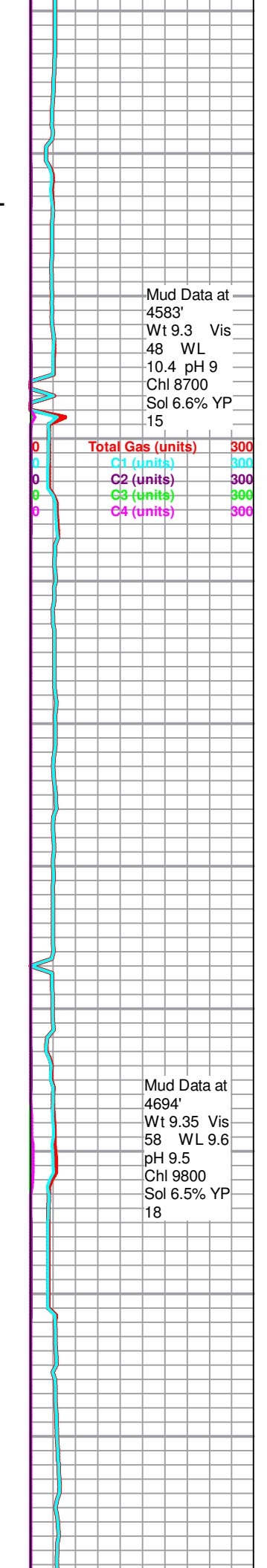


Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300





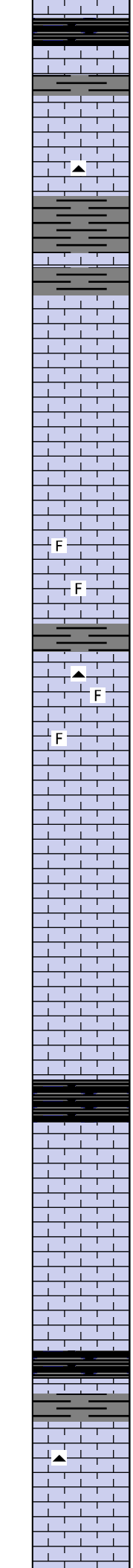
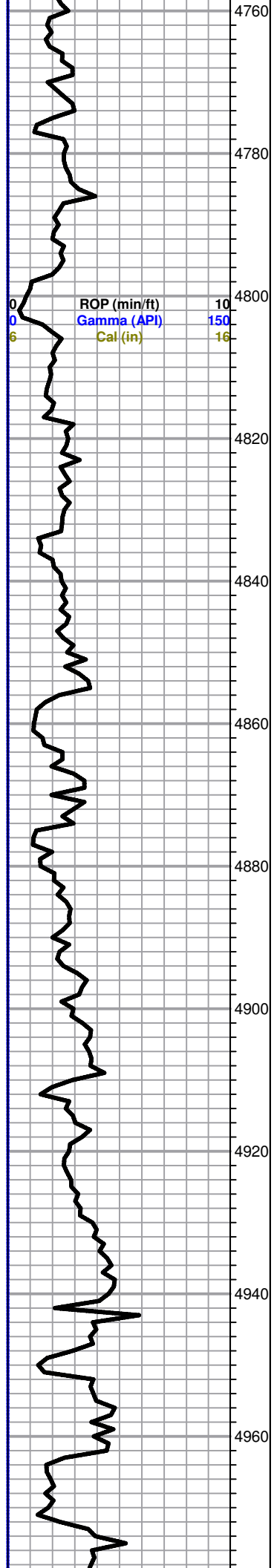
Sh-AA  
-----Brown Lime 4548 -2105-----  
Ls-brn fxln dns no por  
Sh-gry/dk gry  
Ls-tan/crm fxln dns no por  
-----Lansing 4568 -2125-----  
Ls-tan/crm/lt brn fxln dns no por  
Ls-tan/gry f/mxln dns no por  
Sh-gry/dk gry  
Ls-crm/tan fxln mhd trc xln por ns  
Ls-crm/tangry fxln mhd no por  
Ls-AA  
Sh-gry/dk gry  
Ls-crm/tan fxln dns no por  
Sh-gry/dk gry  
Ls-crm/tan fxln mhd trc vug por ns  
Ls-crm/tan fxln mhd/dns no por  
Ls-crm/tan fxln dns no por  
Ls-AA  
Sh-gry/dk gry  
Ls-tan/gry fxln mhd trc xln por ns  
Ls-tan/gry f/mxln dns no por  
Sh-gry/dk gry  
Ls-tan/gry fxln dns no por  
Sh-gry/dk gry  
Ls-gry/brn f/mxln mhd no por  
Sh-gry/dk gry  
Ls-lt gry/tan fxln s/mhd clky trc vug por ns  
Ls-AA  
Ls-gry tan fxln dns no por  
Ls-tan fxln soft sl fos fr pp por ns  
Ls-tan/crm/gry fxln soft clky trc xln por ns  
Ls-AA trc Chr-lt gry



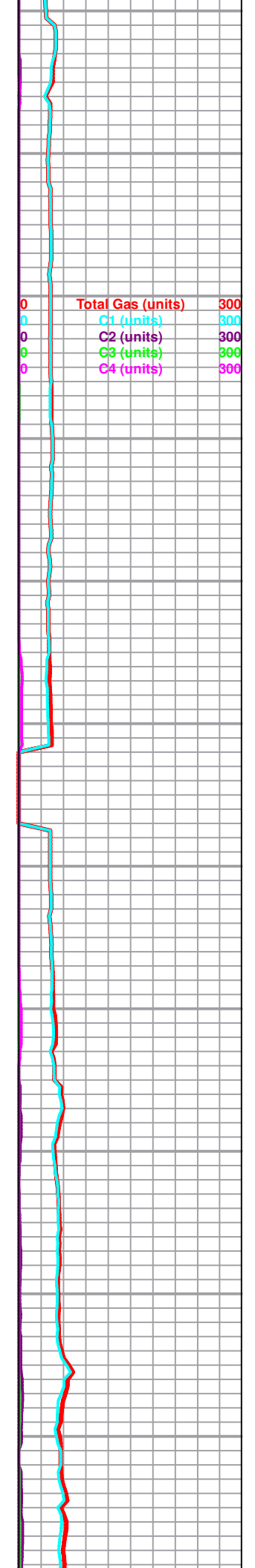
Mud Data at 4583'  
Wt 9.3 Vis 48 WL 10.4 pH 9  
Chl 8700 Sol 6.6% YP 15

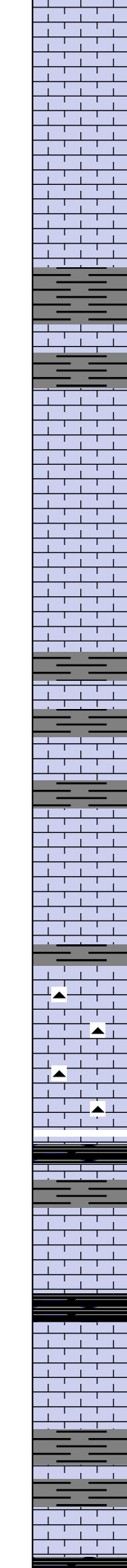
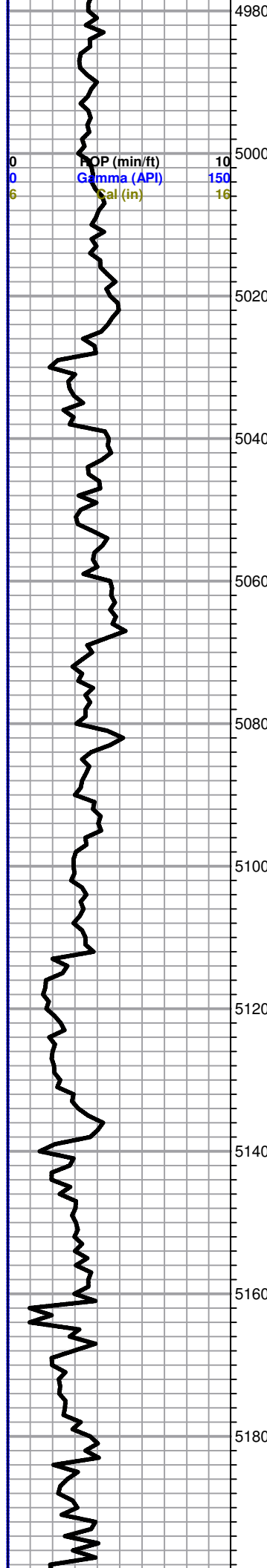
Total Gas (units)	300
C1 (units)	300
C2 (units)	300
C3 (units)	300
C4 (units)	300

Mud Data at 4694'  
Wt 9.35 Vis 58 WL 9.6 pH 9.5  
Chl 9800 Sol 6.5% YP 18



Ls-tan/gry/txln mhd no por trc Cht-AA  
 Sh-blk carb  
 Ls-gry/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-gry/tan f/mxln mhd trc xln por ns  
 Ls-crm/tanf/mxln dns no por trc Cht-gry/lt gry  
 Sh-gry/dk gry  
 Ls-crm/tan fxln mhd/dns no por  
 Sh-gry/dk gry  
 Ls-tan/gry fxln s/mhd trc xln por ns  
 Ls-tan/gry fxln mhd/dms no por  
 Ls-AA  
 Ls-crm/tan/gry fxln mhd/dns no por  
 Ls-AA  
 Ls-crm/tan fxln to sl blkly mhd sl fos sl clkly scat xln por ns  
 Ls-gry/tan fxln mhd sl fos no por  
 Sh-gry/dk gry  
 Ls-tan f/mxln dns sl fos no por trc Cht-gry  
 Ls-gry/tan f/mxln s/mhd sl fos trc xln por ns  
 Ls-tan fxln dns no por  
 Ls-tan fxln mhd no por  
 Ls-tan fxln mhd/dns no por  
 Ls-AA  
 Ls-tan fxln dns no por  
 -----Stark 4910 -2467-----  
 Sh-blk carb  
 -----Swope 4917 -2474-----  
 Ls-gry/tan fxln dns no por  
 Ls-AA  
 Ls-gry fxln dns no por  
 -----Hushpuckney 4947 -2504-----  
 Sh-blk carb  
 Ls-gry/brn fxln dns no por trc Cht-gry  
 -----Hertha 4958 -2515-----  
 Ls-gry/brn fxln dns no por trc Cht-gry  
 Ls-crm/tan/brn fxln mhd sl clkly trc pp por ns  
 Ls-gry/tan fxln dns no por

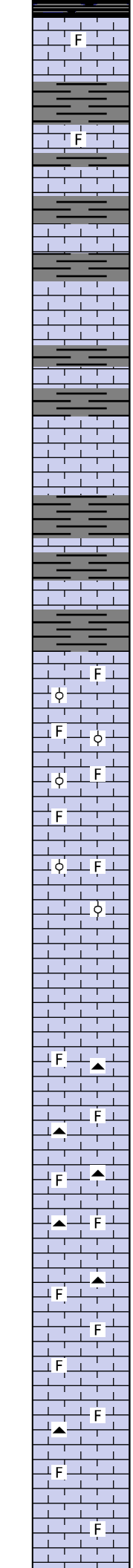
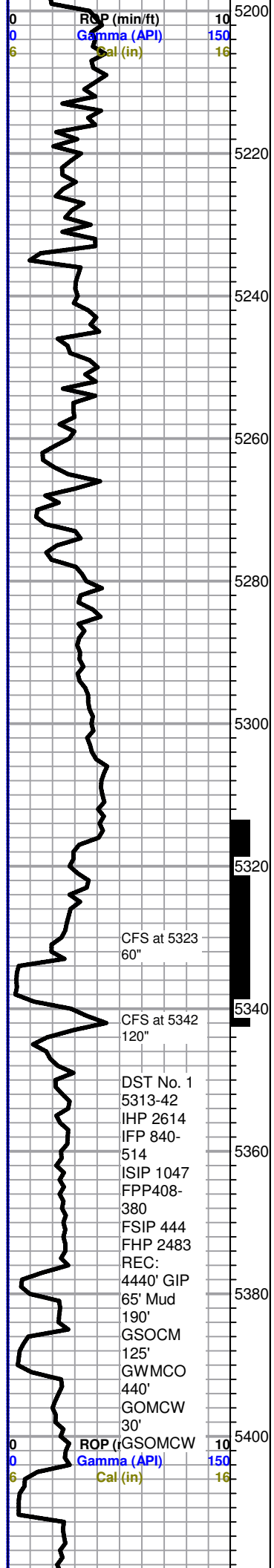




Ls-AA  
 Ls-gry/tan fxln dns no por  
 Ls-AA  
 Ls-AA  
 -----B/Kansas City 5016 -2573-----  
 Sh-gry/dk gry/blk  
 Ls-gry fxln dns no por  
 -----Marmaton 5033 -2590-----  
 Ls-gry fxln mhd trc xln por ns  
 Ls-gry/brn fxln dns no por  
 Ls-AA  
 Ls-gry/brn/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-gry/tan fxln dns no por  
 Sh-gry/dk gry  
 Ls-tan/crm fxln dns no por  
 Sh-gry/dk gry  
 Ls-tan/crm fxln dns sl clkly no por  
 Ls-tan/crm fxln dns no por  
 -----Pawnee 5114 -2671-----  
 Ls-crm/tan fxln mhd sl clkly no por sm Cht-lt gry/brn  
 Ls-crm/tan fxln mhd sl fos no por sm Cht-gry/brn/lt gry  
 Sh-blk carb  
 Ls-gry fxln dns no por  
 Sh-gry/dk gry  
 Ls-lt gry/tan fxln dns no por  
 -----Cherokee 5161 -2718-----  
 Sh-blk carb  
 Ls-crm/tan/brn fxln dns no por  
 Ls-AA  
 Sh-gry/dk gry/grn  
 Ls-tan/brn fxln dns no por  
 Sh-gry/dk gry/grn  
 Ls-crm/tan/lt gry fxln dns no por  
 Sh-blk carb

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

Mud Data at  
 5119'  
 Wt 9.25  
 Vis 52  
 WL 8.8  
 pH 10.5  
 Chl 8100  
 Sol 6%  
 YP 17



Sh-blk carb

Ls-tan/brn fxln dns sl fos no por

Sh-gry/dk gry

Ls-tan/brn fxln dns no por few pcs Ls-tan/brn mhd fos trc stn

Sh-gry/dk gry

Ls-tan/brn fxln dns no por

Sh-gry/dk gry

Ls-gry fxln dns no por

Sh-gry/dk gry

Ls-AA

-----Inola 5257 -2814-----

Ls-tan/lt gry fxln mhd sl clkly no por

-----Morrow Shale 5268 -2825-----

Sh-gry/dk gry/blk

Sh-AA

Ls-tan fxln dns no por

Sh-gry/dk gry/mar/blk

-----Mississippi 5290 -2847-----

Ls-wt/lt tan f/mxln mhd fos ool and oom sl clkly no por

Ls-AA sm Ls-wt fxln s/mhd sl fos no por

Ls-wt cxln s/mhd sl fos sl ool no por

Ls-AA with one pce Ls-tan fxln mhd trc stn

Ls-brn fxln to sugary gd vug/inter xln por brn sat stn gd fluor gd cut fr odor gsfo

Ls-crm/tan fxln mhd/dns no por

Ls-crm/tan f/mxln mhd sl fos no por sm Cht-lt gry

Ls-AA sm Cht-lt gry/wt

Ls-crm/tan f/mxln s/mhd sl fos no por sm Cht-AA

Ls-AA sm Cht-lt gry/wt

Ls-crm/lt tan sm wt f/mxln soft sl fos sl clkly no por

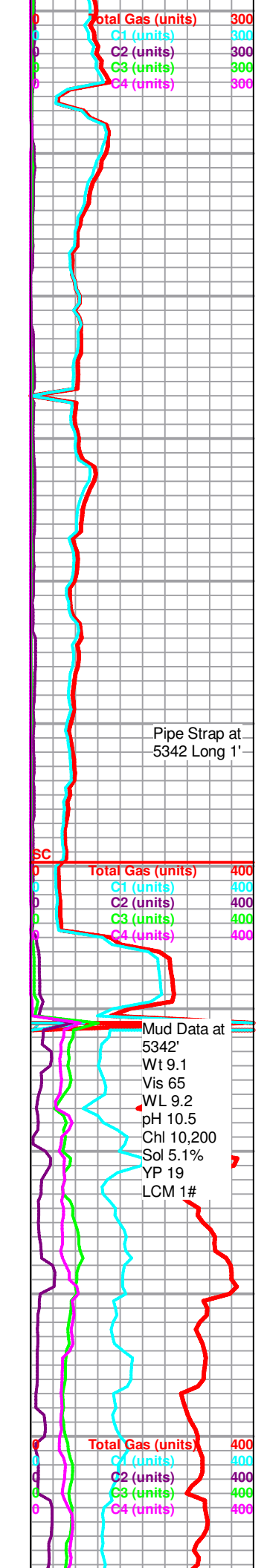
Ls-crm/lt tan f/mxln mhd sl fos no por sm Cht-wt/lt gry

Ls-crm/lt tan sm wt f/mxln soft sl fos sl clkly no por

Ls-crm/lt tan f/mxln mhd sl fos no por sm Cht-lt gry/wt

Ls-crm/lt tan sm wt s/mhd sl fos no por

Ls-crm/tan f/mxln mhd sl fos no por sm Cht-lt gry/wt



Pipe Strap at 5342 Long 1'

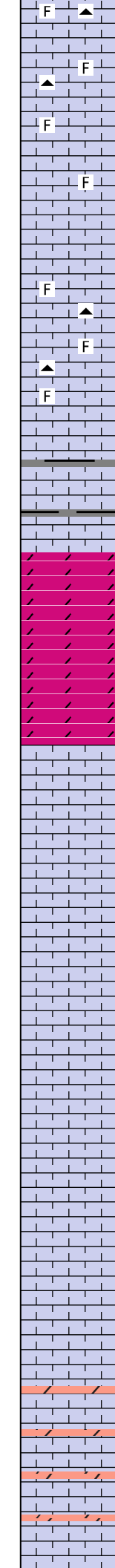
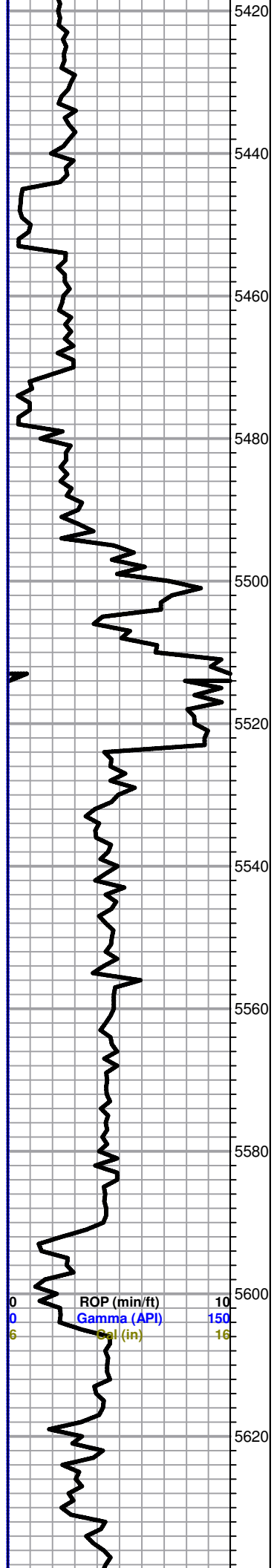
SC

Total Gas (units) 400  
 C1 (units) 400  
 C2 (units) 400  
 C3 (units) 400  
 C4 (units) 400

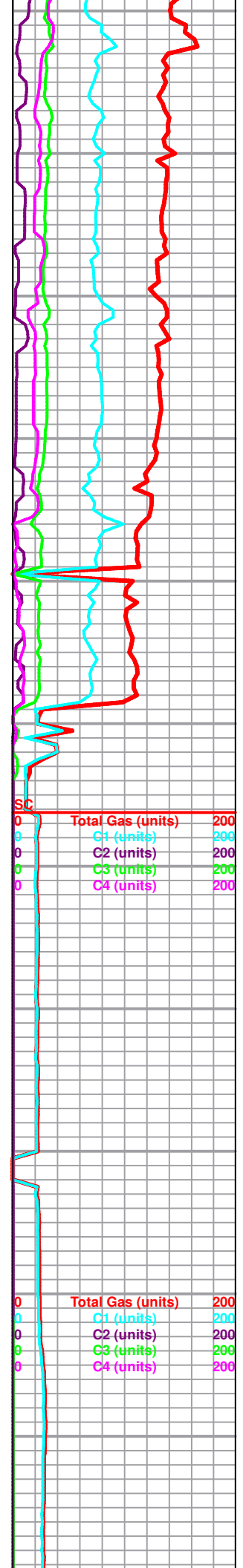
Mud Data at 5342'

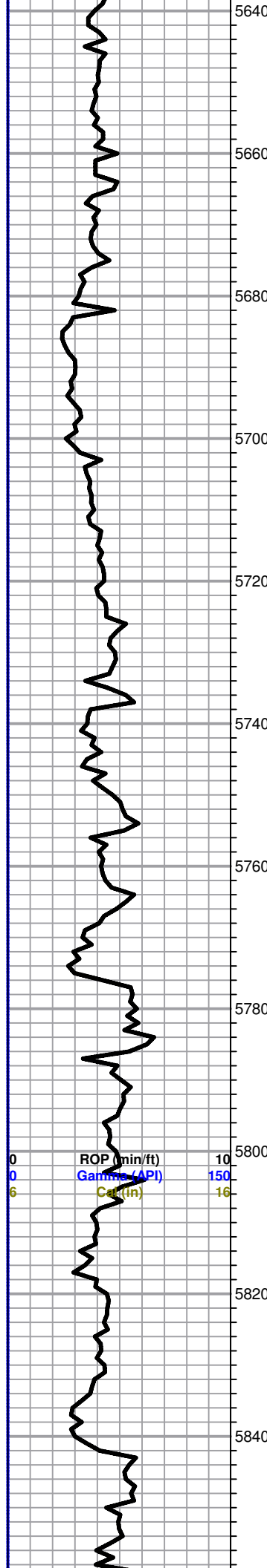
Wt 9.1  
 Vis 65  
 WL 9.2  
 pH 10.5  
 Chl 10,200  
 Sol 5.1%  
 YP 19  
 LCM 1#

Total Gas (units) 400  
 C1 (units) 400  
 C2 (units) 400  
 C3 (units) 400  
 C4 (units) 400

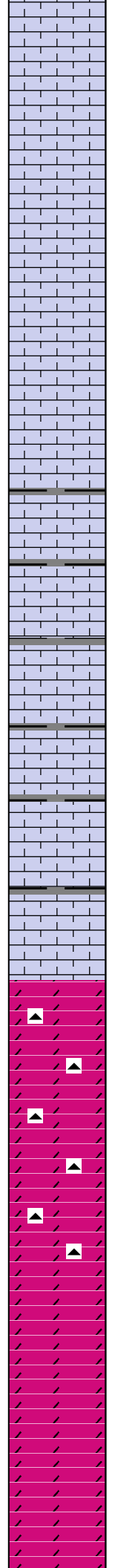


Ls-AA sm Cht-AA  
 Ls-crm tan f/msln mhd sl fos no por  
 Ls-crm/wt f/mxln soft sl clky no por  
 Ls-crm/tan f/mxln mhd sl fos no por less Cht  
 Ls-AA less Cht  
 Ls/crm/wt f/mxln s/mhd sl fos sl clky no por  
 Ls-crm/tan fxln mhd/dns no por interbd with Sh-gry/dk gry  
 Ls-AA intertbf with Sh-AA  
 Dolo-lt gry fxln dns no por  
 Dolo-AA  
 Dolo-AA  
 Ls-crm fxln mhd/dns sl dolo no por  
 Ls-AA  
 Ls-crm/wt fxln mhd/dns sl clky no por  
 Ls-AA  
 Ls-crm/wt fxln mhd/dns sl clky no por  
 Ls-AA  
 Ls-tan/crm f/mxln trc inter xln por ns  
 Ls-AA  
 Ls-crm/tan fxln dns no por sm Dolo-tan fxln dns no por  
 Ls-crm/tan f/mxln mhd no por sm Dolo-tan/gry fxln dns no por  
 Ls-AA sm Dolo-AA

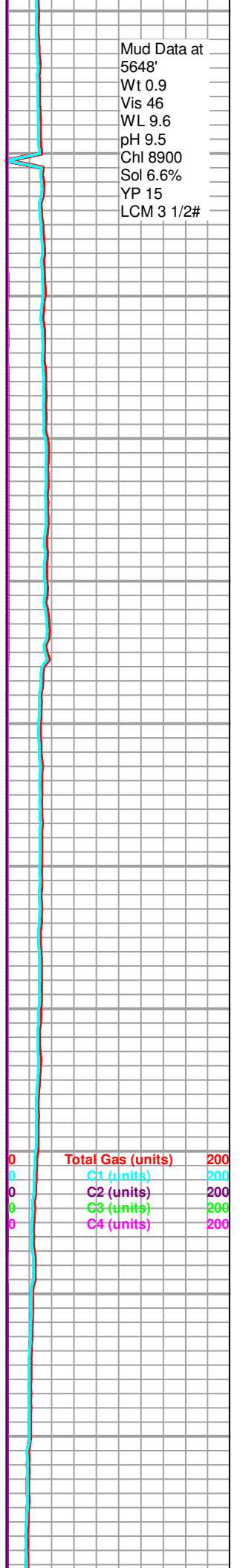




0 ROP (min/ft) 10  
 0 Gamma (API) 150  
 6 Ca (in) 16



Ls-crm/lt tan f/mxln dns no por  
 Ls-AA  
 Ls-AA  
 Ls-crm/lt tan f/mxln dns no por  
 Ls-AA  
 Ls-wt/crm fxln s/mhd clkly no por  
 Ls-wt/crm fxln sm mxln s/mhd clkly no por  
 Ls-wt/lt gry fxln dns no por interbd with Sh/gry/dk gry  
 Ls-AA interbd with Sh-AA  
 Ls-crm/lt gry fxln dns no por interbd with Sh-gry/dk gry  
 Ls-AA interbd with Sh-AA  
 Ls-AA interbd with Sh-AA  
 Ls-gry fxln sm mxln mhs sl clkly no por  
 Ls-gry fxln dns no por  
 Ls-gry fxln mhd/dns sl clkly no por  
 -----Cowley Facies 5776 -3333-----  
 Dolo-crm f/mxln to sl suc dns sl glau no por sm Cht-lt gry trans  
 Dolo-AA sm Cht-AA  
 Dolo-gry mxln to sl suc dns sl glau no por sm Cht-lt gry trans  
 Dolo-AA sm Cht-AA  
 Dolo-lt gry/crm f/mxln to sl suc no por  
 Dolo-AA  
 Dolo-lt gry/crm f/mxln to sl suc no por  
 Dolo-AA



Mud Data at  
 5648'  
 Wt 0.9  
 Vis 46  
 WL 9.6  
 pH 9.5  
 Chl 8900  
 Sol 6.6%  
 YP 15  
 LCM 3 1/2#

0 Total Gas (units) 200  
 0 C1 (units) 200  
 0 C2 (units) 200  
 0 C3 (units) 200  
 0 C4 (units) 200

