

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	ROMERO 1-4
Doc ID	1402533

All Electric Logs Run

CDN
DIL
MICRO
SONIC



JOB LOG

SWIFT Services, Inc.

DATE 2-26-18 PAGE NO. 1

CUSTOMER Blue Ridge Petroleum WELL NO. E1-4 LEASE Romero JOB TYPE 13 3/8 Conductor TICKET NO. 31247

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							on location 13 3/8" 48"
								RTD-97' TP-97'
	2050							Start 13 3/8" 48" casing in hole
	2120							Break Circulation
	2140	4 1/2	5		✓	100		Pump 5 bbl water spacer
	2142	4 1/2	30		✓	200		mix 125 sks STD 2% Gel 3% CC @ 14.7 PPG
	2155	4 1/2	0		✓			Start Displacement
		4 1/2	6		✓			circulate cement to surface *30 sks*
	2200	4 1/2	13 1/2		✓			Kick out Pump *Shut in*
								wash up truck
	2230							Job Complete

Thank You  
Dave Preston Kirby

JOB LOG

SWIFT Services, Inc.

DATE 2-27-18 PAGE NO. 1

CUSTOMER Blue Ridge Petroleum WELL NO. A1-4 LEASE Romero JOB TYPE 8 5/8" Surface TICKET NO. 31248

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							on location 8 5/8" 24"
								RTD- 433' TP- 432'
	1300							Start 8 5/8" 24" casing in well
	1350							Breaks Circulation
	1355	4 1/2	5					Pump 5bbl water spacer
	1357	4 1/2	6 1/2					mix 275 sks STD 2% Gel 3% CC @ 14.7 PPM
	1420	4 1/2	0					Start Displacement
		4 1/2	17					circulate cement to surface - *35 sks*
	1430	4 1/2	26.5					Kick out Pump *Shut in*
								wash up trucks
	1500							Job Complete

Thank You  
Dave Preston Kirby

JOB LOG

SWIFT Services, Inc.

DATE 3-8-18 PAGE NO. 1

CUSTOMER Blue Ridge Petro WELL NO. #1-4 LEASE Romero JOB TYPE 5 1/2" Longstring TICKET NO. 31329

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0030							on location 5 1/2" 15.5" RTD - 5050' LTD - 5051' TP - 5052' Set - 5049' D.V. #79 1555' SS - #1 44.75' Turbo - #1 #2 #5 #6 #7 #80 Basket - #2 #3 #78 #79
	0130							Start 5 1/2" 15.5" casing in well
	0400							Drop Ball Circulate
	0450	4 1/2	36				200	mix 150 sks EA-2 @ 15.5 ppg wash out Pump/Lines Release Latch Down Plug
	0505	6 1/2	∅				100	Start Displacement
		6 1/2	87				300	Lift Pressure
		6 1/2	118				900	max Lift Pressure
	0530	6 1/2	119				1900	Land Latch Down Plug / Release Plug Hold*
	0530							Drop Bomb wait on water
	0600	∅	∅				1000	Open D.V. Tool
	0605	6 1/2	20				200	Pump 20 bbl KCl Flush Plug RH-MH (30-20)
	0615	5 1/2	102				200	Mix 185 sks SMD @ 11.2 ppg wash out Pump/line Release Top Plug
	0705	5 1/2	∅				100	Start Displacement
		5 1/2	10				200	Lift Pressure
		5 1/2	23				400	circulate cement to surface *25 sks*
		5 1/2	35				600	max Lift Pressure
	0715	5 1/2	37				2000	Land Top Plug / Close D.V. Tool
								Release Pressure Plug Hold
								wash up truck
	0800							Job Complete Thank You Dave Preston Kirby



**Company: BlueRidge  
Petroleum Corporation  
Lease: Romero #1-4**

SEC: 4 TWN: 27S RNG: 24W  
County: FORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 2462 GL  
Field Name: Gunsmoke  
Pool: Extended  
Job Number: 117

**DATE**  
March  
**05**  
2018

**DST #1 Formation: PAWNEE Test Interval: 4781 - Total Depth: 4800'**  
**4800'**

Time On: 21:25 03/05      Time Off: 06:01 03/06  
Time On Bottom: 23:32 03/05      Time Off Bottom: 03:17 03/06

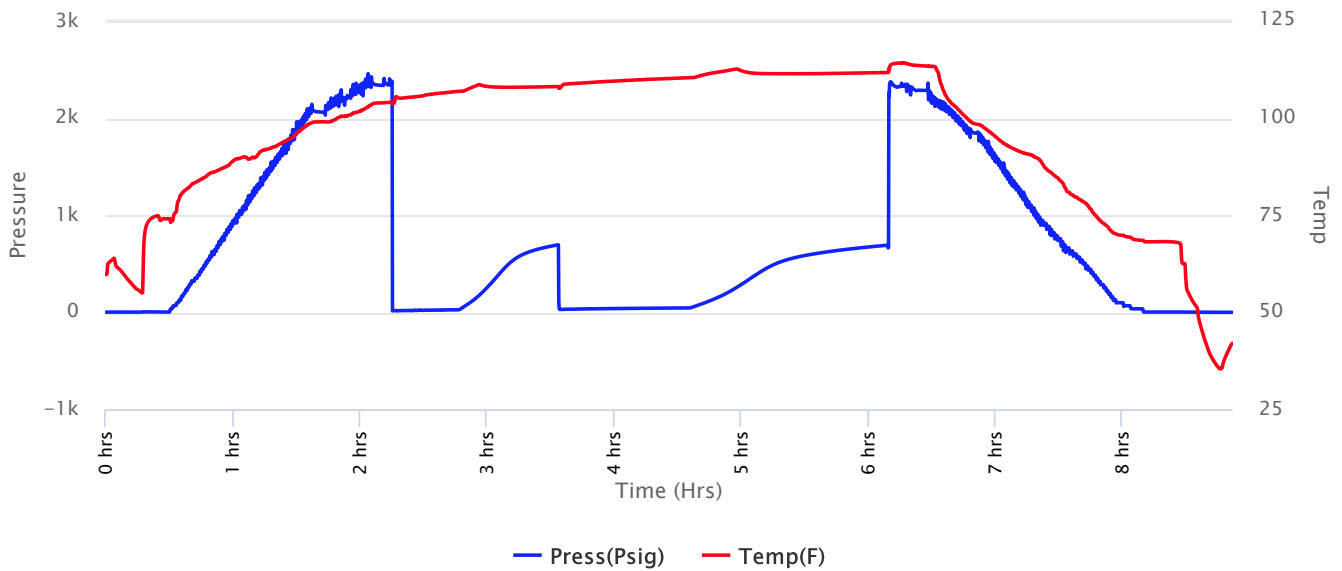
Electronic Volume  
Estimate:  
1197'

1st Open  
Minutes: 30  
32.8" at 30 min

1st Close  
Minutes: 45  
.1" at 45 min

2nd Open  
Minutes: 60  
66" at 60 min

2nd Close  
Minutes: 90  
0" at 90 min







**Company: BlueRidge  
Petroleum Corporation  
Lease: Romero #1-4**

SEC: 4 TWN: 27S RNG: 24W  
County: FORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 2462 GL  
Field Name: Gunsmoke  
Pool: Extended  
Job Number: 117

**DATE**  
March  
**05**  
2018

**DST #1**    **Formation: PAWNEE**    **Test Interval: 4781 - 4800'**    **Total Depth: 4800'**

Time On: 21:25 03/05    Time Off: 06:01 03/06  
Time On Bottom: 23:32 03/05    Time Off Bottom: 03:17 03/06

Recovered

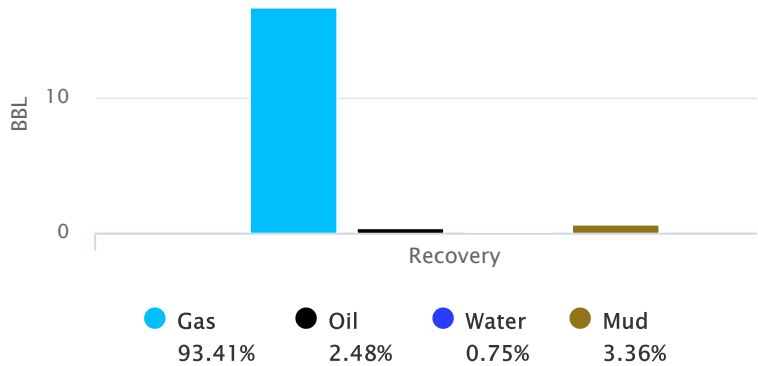
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1175	16.72025	G	100	0	0	0
35	0.49805	SLOCM	0	2	0	98
50	0.7115	SLGCSLMCSLWCO	4	61	19	16

Total Recovered: 1260 ft  
Total Barrels Recovered: 17.9298

Reversed Out  
NO

Initial Hydrostatic Pressure	2339	PSI
Initial Flow	14 to 26	PSI
<b>Initial Closed in Pressure</b>	<b>695</b>	<b>PSI</b>
Final Flow Pressure	29 to 46	PSI
<b>Final Closed in Pressure</b>	<b>692</b>	<b>PSI</b>
Final Hydrostatic Pressure	2321	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	0.5	%

**Recovery at a glance**





**Company: BlueRidge  
Petroleum Corporation  
Lease: Romero #1-4**

SEC: 4 TWN: 27S RNG: 24W  
County: FORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 2462 GL  
Field Name: Gunsmoke  
Pool: Extended  
Job Number: 117

<b>DATE</b> March <b>05</b> 2018
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**DST #1      Formation: PAWNEE      Test Interval: 4781 -      Total Depth: 4800'**  
**4800'**

Time On: 21:25 03/05      Time Off: 06:01 03/06  
Time On Bottom: 23:32 03/05      Time Off Bottom: 03:17 03/06

**REMARKS:**

TOOL SAMPLE:68% OIL, 20% WATER, 12% MUD

IFP:WSB-INCREASING TO BOB IN 10 MINUTES 45 SECONDS

ISIP:WEAK SURFACE BLOW BACK

FFP:9"BLOW-INCREASING TO BOB IN 1 MINUTE

FSIP:NO BLOW BACK

Ph: 7

RW: .6 @ 57 degrees F

Chlorides: 18000 ppm



**Company: BlueRidge  
Petroleum Corporation  
Lease: Romero #1-4**

SEC: 4 TWN: 27S RNG: 24W  
County: FORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 2462 GL  
Field Name: Gunsmoke  
Pool: Extended  
Job Number: 117

<p><b>DATE</b> March <b>05</b> 2018</p>
---

**DST #1      Formation: PAWNEE      Test Interval: 4781 - 4800'      Total Depth: 4800'**

Time On: 21:25 03/05      Time Off: 06:01 03/06  
Time On Bottom: 23:32 03/05      Time Off Bottom: 03:17 03/06

**Down Hole Makeup**

<b>Heads Up:</b> 27.01 FT	<b>Packer 1:</b> 4776 FT
<b>Drill Pipe:</b> 4782.85 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4781 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4768 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4786 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 19	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 15 FT <i>4 1/2-FH</i>	





**Company: BlueRidge  
Petroleum Corporation  
Lease: Romero #1-4**

SEC: 4 TWN: 27S RNG: 24W  
County: FORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 2462 GL  
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<b>DATE</b> March <b>05</b> 2018
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**DST #1    Formation: PAWNEE    Test Interval: 4781 -    Total Depth: 4800'**  
**4800'**

Time On: 21:25 03/05                      Time Off: 06:01 03/06  
Time On Bottom: 23:32 03/05    Time Off Bottom: 03:17 03/06

**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY Blueridge Petroleum Corp  
 LEASE Romero #1-4  
 FIELD Gunsmoke  
 LOCATION NW-SW-SE-SW (591' FSL & 1872' FWL)  
 SEC 4 TWSP 27S RGE 24W  
 COUNTY Ford STATE Kansas

#### ELEVATIONS

KB 2470'  
 DF \_\_\_\_\_  
 GL 2462'  
 Measurements Are All  
 From KB

CONTRACTOR Discovery Drilling, Inc. (Rig #4)  
 SPUD 02/26/2018 COMP 03/07/2018  
 RTD 5050' LTD 5051'  
 MUD UP 3900' TYPE MUD Chemical

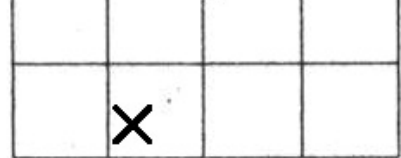
CASING  
 SURFACE 8 5/8" @ 432'  
 PRODUCTION 5 1/2" @ 5045'

ELECTRICAL SURVEYS  
 ELI; DIL, MEL,  
 CDL/CNL/PE

SAMPLES SAVED FROM 4000' TO RTD  
 DRILLING TIME KEPT FROM 4000' TO RTD  
 SAMPLES EXAMINED FROM 4000' TO RTD  
 GEOLOGICAL SUPERVISION FROM 4250' TO RTD  
 GEOLOGIST ON WELL Jim Musgrove 4250' -4800' & Wyatt Urban 4800'-RTD

FORMATION TOPS	LOG	<del>SAMPLES</del>				
Anhydrite	1508 (+962)	Cherokee 4838 (-2368)				
B. Anhydrite	1540 (+930)	Morrow 4935 (-2465)				
Heebner	4134 (-1664)	Miss. 4972 (-2502)				
Lansing	4243 (-1773)	RTD 5050 (-2580)				
Stark	4574 (-2104)	LTD 5051 (-2581)				
Hush.	4606 (-2170)					

Base KC	4706 (-2236)			
Marmaton	4747 (-2277)			
Pawnee	4791 (-2321)			
Ft. Scott	4821 (-2351)			



**ROCK TYPES**

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

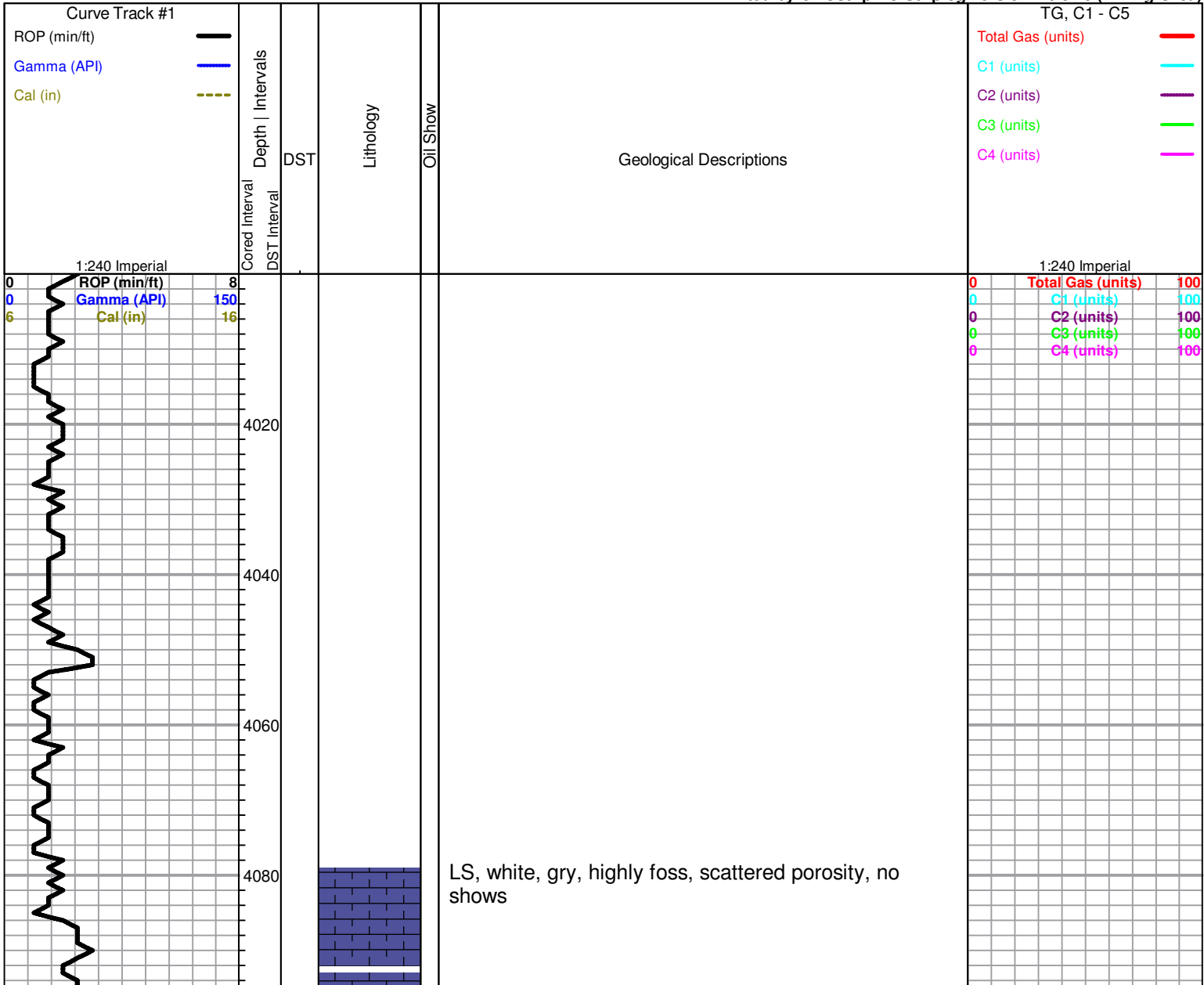
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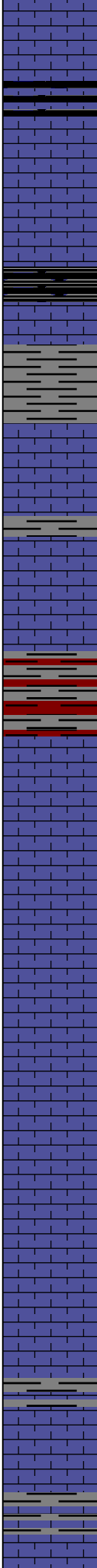
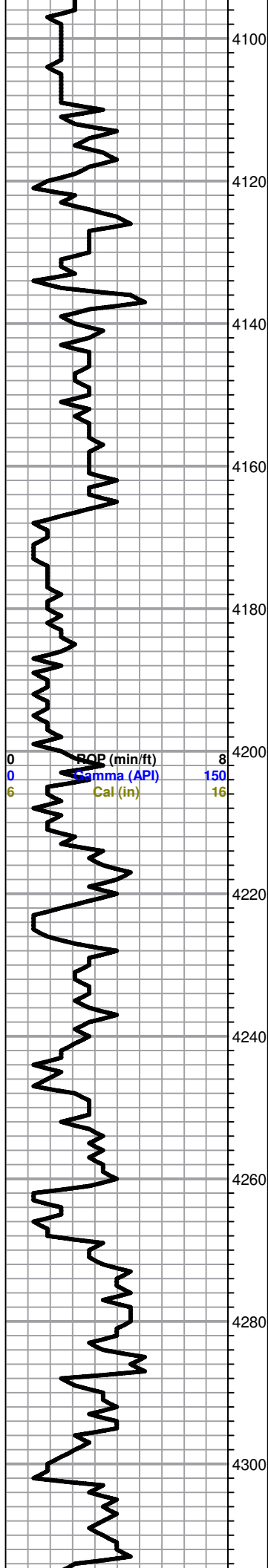
<b>MINERAL</b>	<b>STRINGER</b>
Chert, tripolitic	Sandstone

**OTHER SYMBOLS**

<b>Oil Show</b>	<b>DST</b>
● Good Show	DST Int
● Fair Show	DST alt
● Poor Show	Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





LS, tan, sub oom, scattered / poor oom porosity, no shows

Tr. black carb

LS, white, gry, foss, gran, poor visible porosity, no shows

**Heebner 4131.0 (-1661.0)**

Sh, black carb

LS, tan, few foss (dense)

Sh, gry, maroon

LS, gry, fxl, (dense)

Tr. tan, opaque cherts

LS, a/a, few boney

Sh, maroon, brick red, green shale

LS, gry, tan, ool, poor visible porosity, no shows

LS, gry, ool, sub oom, poorly developed porosity

**Lansing 4244.0 (-1774.0)**

LS, tan, foss, fair visible porosity, + gry & boney chert

LS, tan, gry, + white/ gry, boney chert

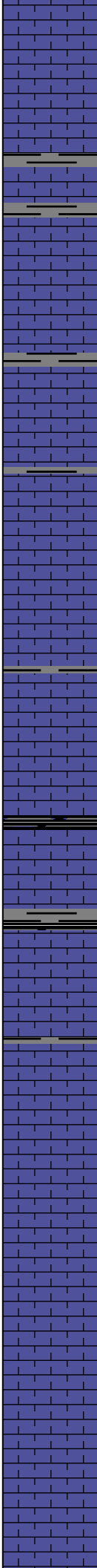
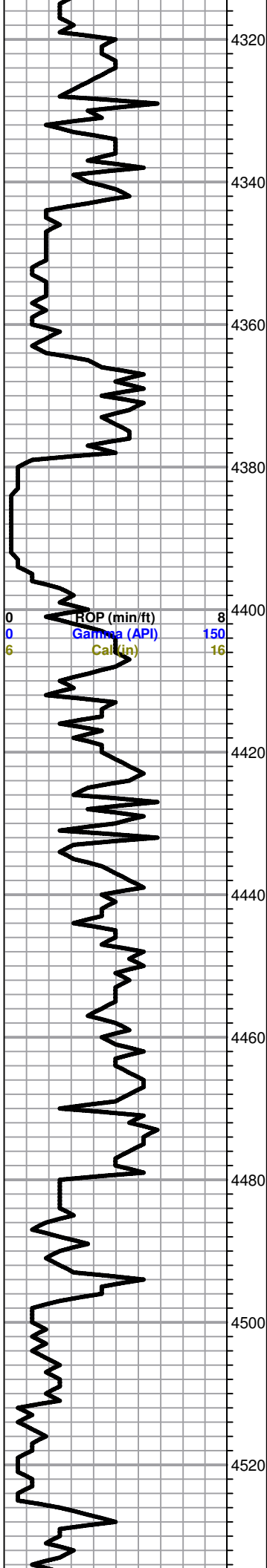
LS, a/a

LS, white, gry, foss in pts, no show+ white, gry boney cherts

LS, gry, white, fxl, foss, chlky, scattered porosity, no shows

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





LS, gry, white, fxl, foss, chalky, scattered porosity, no shows

4320

LS, gry, white, fxl, dol. in pts, poor visible porosity, no shows

4340

LS, a/a

4360

LS, tan, ool/ oom, fair oom porosity (barren)

4380

LS, tan, ool, oom fair vis. porosity, no shows

ROP (min/ft) 8  
Gamma (API) 150  
Cal (in) 16

4400

tr. black shale

4420

LS, a/a, (cavings ???)

4440

LS, white, gry, ool, few sub oom, scattered porosity, no shows, no odor +white/ gry chert

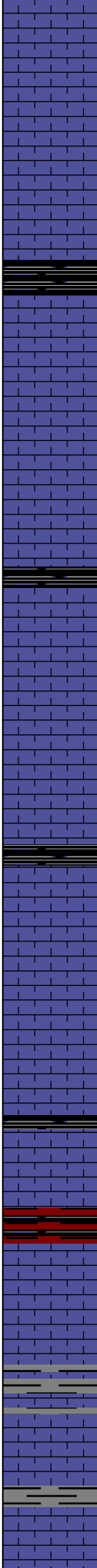
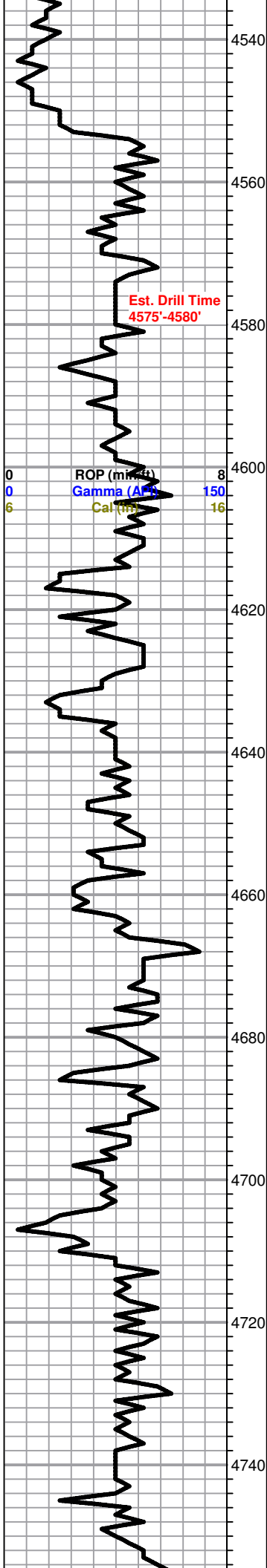
4480

LS, white, gry, highly ool, oom, fair-good oom/ vuggy porosity

4500

4520

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



LS, a/a + tan, white chalk

LS, white, gry, chalky

**Stark 4575.0 (-2105.0)**

Sh, black carb

LS, tan, med xln, chalky, poor porosity

LS, gry, dk gry, foss, slightly cherty (dense)

LS a/a

**Hushpuckney 4615.0 (-2145.0)**

Sh, black carb

LS, white, cream, gry, chalky, slightly foss + white chert

LS, dk, brown, brown, cherty, (dense)  
+ brown, dk gry/ black brown chert

LS, cream, white, foss, ool, chalky in pts

Tr. black carb Sh

**BKC 4705.0 (-2235.0)**

Sh, gry/ maroon, blk shale

LS, white, cream, highly ool, poor visible porosity,  
questionable stain, discoloration, no free oil/ no odor

LS, gry, white, few shaley

**Marmaton 4747.0 (-2277.0)**

LS, white, gry, cream, f-med xln, foss in pts, poor

**Clock Stopped  
4575'-4580'**

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

**DST#1 4781-4800**  
30-45-60-90

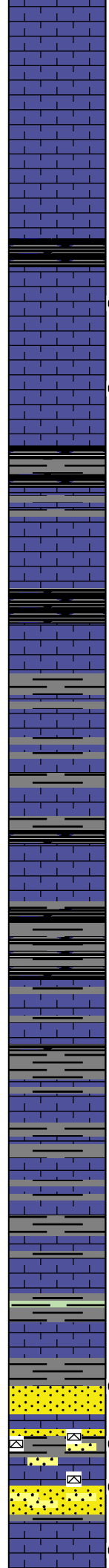
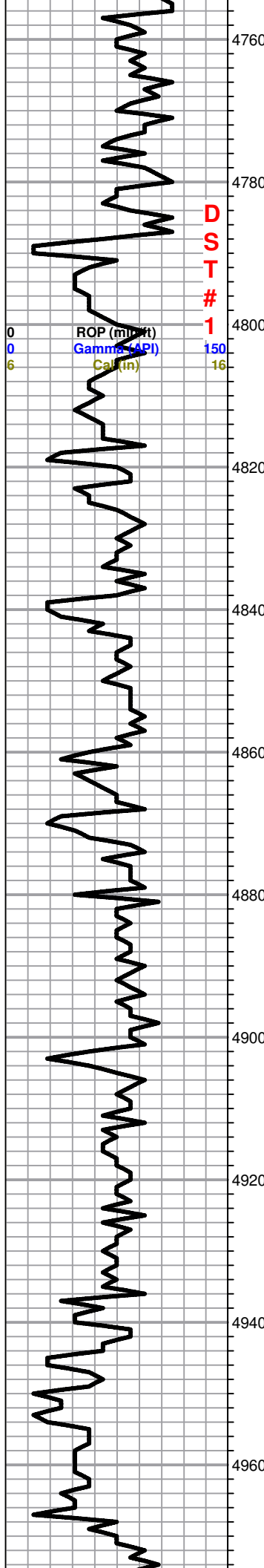
**1st Open:**  
Building blow BOB in  
10 mins. 45 sec.

**2nd Open:**  
BOB 1 min.

**Recovery:**  
1175' GIP

35' SLOCM  
(2%O, 98%M)

50' SLOCMWCO  
(4%G, 61%O, 19%W.



visible porosity, no shows

LS, gry, white, ool, chalky (dense)

Sh, black carb

**Pawnee 4791.0 (-2321.0)**

LS, tan, ool, slightly chalk, scattered porosity, lt. brn stain, sfo, faint odor

LS, tan, foss, chalky, poor scattered porosity, tr. black, brn stain, nsfo, no odor

Sh, black carb

**Ft. Scott 4829.0 (-2359.0)**

LS, cream, white, few foss, v. chalky, no shows, no odor

**Cherokee 4838.0 (-2368.0)**

Sh, black carb

LS, cream, tan, fxl, few foss, poor visible porosity, no shows tr. ool brown chert

Sh, gry, dk gry V.C. cherts, tan, brn, few orange, scattered p.p/vuggy porosity, nsfo

Sh, gry/ black

LS, tan, cream, dense, few foss, poor visible porosity, no shows

Sh, gry, dk gry, few coffee brown

LS, tan, brn, a/a

Sh, gry/ dk gry, brn, silty, tr. tan, buff cherts

Sh, gry, blk, green, tr. cherts, a/a

LS, cream, white, poor visible porosity, chiky, no shows

**Morrow Sh. 4936.0 (-2466.0)**

Sh gry, greenish, maroon, waxey,  
LS, tan, cream, fxl, chalky, no shows

Sd. clr, (aqua green.) glauc., vfg. clr qtz, f-med grain, poor ING porosity, black stain on few, tr. sfo, no odor

**Morrow Sd. 4949.0 (-2479.0)**

Tr.chert, white, boney, covered in (aqua green) glauc., trip. (weathered) scattered vuggy type porosity, heavy black staining, dk brn sfo, no odor.

V. dense, med-fine gr. sd. poorly sorted, poor inner gran. porosity, sfo, ft. odor

**Miss. Lime 4968.0 (-2498.0)**

M16%)

**Pressures:**  
ISIP 695 psi  
FSIP 692 psi  
IFP 14-26 psi  
FFP 29-46 psi  
HSH 2339-2321 psi

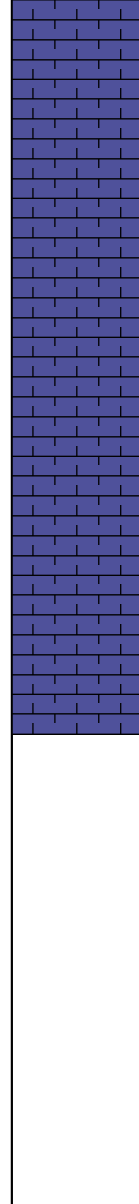
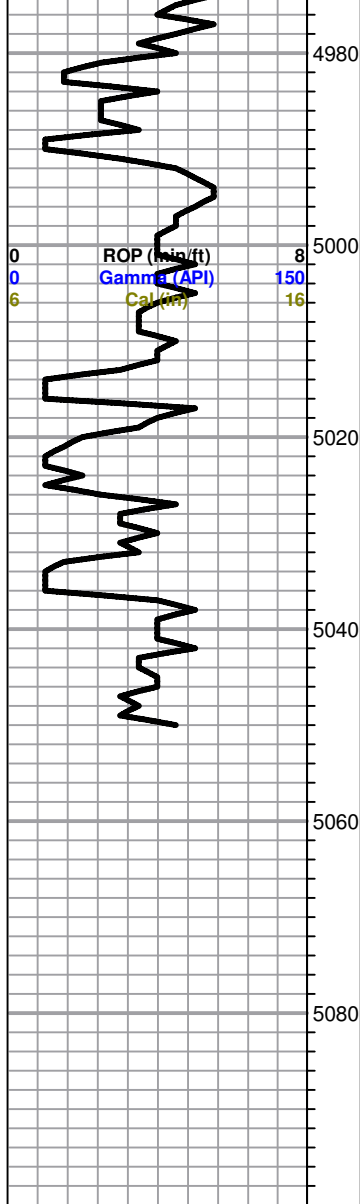
**JIM MUSGROVE**  
4000'-4800'

**WYATT URBAN**  
4800'-RTD

CO (units) 0  
C4 (units) 0

**4970-Sample**  
1. Sd. vfg. blk stained, heavy SFO, good inner gran. porosity no odor (caving???)

Abund. white/cream, cherts few trip./ weathered, tr.blk spotty stain. sfo (



LS, white, cream, few gry, poor vis. porosity, chalky, dense, no shows, tr. chert, white, few weathered, tr. blk stain, tr. sfo, on few

LS, white, cream, dol. med xln, only (2) tr. sfo, very faint lt. brn, no odor (chky luster)

LS, tan, buff, white, fxl, scattered vis. porosity, chalky, no shows

LS, cream, white, gry, f-med xln, dol. scattered p.p porosity, no shows, no odor, tr. white, bone white chert

LS, cream, white, foss, ool, v. chalky, no shows

LS, tan, cream, fxl, few foss, poor visible porosity, no shows, no odor  
Tr. boney, white cherts

**RTD 5050.0 (-2580.0)**

**LTD 5051.0 (-2581.0)**

floating in tray)

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