

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. 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

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	White Exploration, Inc.
Well Name	Arnold 2
Doc ID	1310890

All Electric Logs Run

Compensated Density Neutron Log
Dual Induction Log
Micro Log
Sonic Log



Attached to and Made a Part of  
ACO-1 Form for  
WHITE EXPLORATION, Inc.  
ARNOLD #2  
1285' FSL and 2240' FEL  
Section 6-29S-40W  
Stanton County, Kansas  
API# 15-187-21326-00-00

Surface Casing Cement

Cemented with 595 sacks 65/35 Cement with 6% gel and 3% CC and ¼#/sack Pheno-seal.  
Followed by 200 sacks of Common Cement with 2% CC and ¼#/sack of Pheno-seal.

Production Casing Cement

Cemented bottom stage with 60 sacks of H-Con Cement with 3% CC, and ¼# Pheno Seal/sack  
and 200 sacks of H-Long Cement with 10% salt, 5# Kol-Seal/sack, .25% Defoamer and .6%  
Fluid Loss additive.

Cemented thru DV Tool @ 3226' with 315 sacks of H-Con Cement with 3% CC, and ¼# Pheno-  
Seal/sack, Followed by 100 sacks of Common Cement with 2% CC and ¼# Pheno-Seal/sack.  
Cement circulated to Surface. Plug Mouse Hole with 20 sacks and Rat Hole with 30 sacks of  
Common Cement with 2 % CC and ¼# Pheno-Seal/sack.

Acid/Frac Record

Acidized with 2400 gallons of 7-1/2% MCA acid

Fracked with 19,000# of 16/30 Sand, 6,000# of 16/30 Resin Coated Sand and 26,700 gallons of  
gelled water.

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

Customer:	White Exploration Inc.	Date:	4/30/2016	SO#:		1286
Representative:	Terry Baird					
Address:						
City, State:						
County, Zip:						

<b>Field Order No.:</b>	100637	<b>Open Hole:</b>		<b>Perf Depths (ft)</b>	<b>Perfs</b>
<b>Well Name:</b>	Arnold #2	<b>Casing Depth:</b>	1729.84		
<b>Location:</b>	Johnson	<b>Casing Size:</b>	8 5/8		
<b>Formation:</b>		<b>Tubing Depth:</b>			
<b>Type of Service:</b>	Surface	<b>Tubing Size:</b>			
<b>Well Type:</b>	Oil	<b>Liner Depth:</b>			
<b>Age of Well:</b>	New	<b>Liner Size:</b>			
<b>Packer Type:</b>		<b>Liner Top:</b>			
<b>Packer Depth:</b>		<b>Liner Bottom:</b>			
<b>Treatment Via:</b>	Casing	<b>Total Depth:</b>	1726'	<b>Total Perfs</b>	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
1:00 AM					Called Out			
7:30 PM					Trucks on location			
					Hold Safety Meeting Spot & Set up Trucks			
					Run 41 Jt's 8 5/8 24# Casing =1729'.84			
					Shoe Jt=42'.23 Guide Shoe on bottom AFU Insert in Collar			
					Centralizers on Jt's 1-21-31			
					Cement Baskets on Jt's 21-31			
9:00 PM					Start Casing			
10:20 PM					Casing on Bottom Drop Ball Break Circulation W/Rig			
					Circulate 1 Hour			
11:22 PM	5.0		50.0		Start Pumping 10 Bbl's H2O			10.00
11:24 PM	5.0		75.0		Start Mix 595 sx 65/35 6% Gel 3% C.C 1/4#/sx Pheno-Seal			210.00
	5.0		100.0		Start Mix 200 sx Common 2% C.C. 1/4#/sx Pheno-seal			43.45
12:40 AM					Shut Down Release 8 5/8 Top Rubber Plug			
12:45 AM	1.0		100.0		Start Displacement W/H2O			
	5.0		350.0		75 Out Circulate Cement to Pit			75.00
1:07 AM	3.0		900.0		Plud Landed			109.00
1:10 AM					Release Psi & Held			
<b>TOTAL:</b>						-	-	472.45

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
5.0	3.7	900.0	235.7

**PRODUCTS USED**

Treater: \_\_\_\_\_

Customer: \_\_\_\_\_

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
					Cement in Collar Let Set			
					Cement Still in Cellar			
1:45 AM					Rack up trock			
2:00 AM					Off Location			
					Thank You			
					Please Call Again			
					Todd Tom Bill Ron Danny Jesus			
8:00 AM					Called Out 5-1-2016			
9:00 AM					On Location With Trucks Hold Safoty Meeting			
					Spot & Set up trucks			
	2.0		75.0		Mix 120 sx Common			25.00
					Cement in Cellar			
					Wash up Truck & Rack Up Truck			
10:00 AM					Off Location			
					Thank You			
					Tom Bill Danny			

**TREATMENT REPORT**



**HURRICANE SERVICES INC**

Customer:	White Exploration Inc.	Date:		SON#:		1286
Representative:	Terry Baird					
Address:						
City, State:						
County, Zip:						

<b>Field Order No.:</b>	<b>100639</b>	<b>Open Hole:</b>		<b>Perf Depths (ft)</b>	<b>Perfs</b>
<b>Well Name:</b>	<b>Arnold #2</b>	<b>Casing Depth:</b>	<b>5649'</b>		
<b>Location:</b>	<b>Johnson</b>	<b>Casing Size:</b>	<b>5 1/2 15.5#</b>		
<b>Formation:</b>		<b>Tubing Depth:</b>			
<b>Type of Service:</b>	<b>5 1/2 Longstring</b>	<b>Tubing Size:</b>			
<b>Well Type:</b>	<b>Oil</b>	<b>Liner Depth:</b>			
<b>Age of Well:</b>	<b>New</b>	<b>Liner Size:</b>			
<b>Packer Type:</b>		<b>Liner Top:</b>			
<b>Packer Depth:</b>		<b>Liner Bottom:</b>			
<b>Treatment Via:</b>	<b>Casing</b>	<b>Total Depth:</b>	<b>5651'</b>		
				<b>Total Perfs</b>	<b>0</b>

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
11:30 PM					Called Out			
9:45 AM					On location W FE & Pump Truck			
					Rig Laying Down			
					Run 135 Jt's 5 1/2 Casing 15.5# =5649'			
					Shoe Jt=20'.99 Float Shoe & LD Baffle			
					Centralizers On Jt's 2-3-4-5-6-7-9-12-15-18-23-30			
					Cement Baskets on Jt's 2-5/9 Scrathers Jt's 5-6-7			
					DV Tool Jt 58=3226'			
2:40 PM					Casing on Bottom			
2:48 PM			700.0		Drop Ball Break Circulation W/Rig 1 Hour			
4:48 PM	0.5		100.0		Start Pumping H2O			6.00
	3.5				Start Pumping Mud Flush			12.00
	3.5		250.0		Start Pumping H2O			6.00
	5.0		250.0		Start Mix & Pump Lead 60 Sx H-Con @ 12.1 #/Gal			26.61
	5.0		250.0		Start Mix & Pump Tail 200 Sx H-Long @ 15#/Gal			51.29
5:28 PM	5.0				Shut Down Clear Pump & Lines Release LD Plug			10.00
12:00 AM	1.0		100.0		Start Displacement 2% KCL			2.00
	7.0		900.0		Lift Psi			100.00
<b>TOTAL:</b>						<b>-</b>	<b>-</b>	<b>738.17</b>

**SUMMARY**

Max FI. Rate	Avg FI. Rate	Max PSI	Avg PSI
7.0	3.8	2,000.0	643.8

**PRODUCTS USED**

Treater: \_\_\_\_\_

Customer: \_\_\_\_\_



**TREATMENT REPORT**



**HURRICANE SERVICES INC**

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbbls)
	FLUID	N2/CO2	STP	ANNULUS				
	3.0				Slow Rate			
6:03 PM	3.0		1,800.0		Land Plug Release & Hold			136.50
6:07 PM					Drop open Tool Load Closing plug			
6:21 PM			2,000.0		Open DV Tool W Pump Truck			
	5.0		450.0		Pump H2O			15.00
					Shut Down Hook up to Rig Pump Circulate 1.5 Hour			
7:50 PM	4.0		100.0		Start Pumping H2O			10.00
7:55 PM	3.5		200.0		Start Mix & Pump 315 Sx H-Con@ 12.1#/Gal			139.69
					Start Mix & Pump 100 Sx Common @14.8 #/Gal			24.58
8:40 PM					Shut Down Clear Pump & Lines			10.00
8:40 PM	5.0		100.0		Start Displacement H2O			
8:42 PM	4.0		300.0		Lift Psi			31.00
	3.0		800.0		Slow Rate			70.00
9:02 PM	3.0		2,000.0		Land plug			78.50
9:07 PM					Release & Hold			
9:15 PM					Plug Rat Hole			5.00
					Plug Mouse Hole			4.00
					Wash Up Truck & Rack Up Truck			
10:15 PM					Off Location			
					Thank You			
					Please Call Again			
					Todd Bill Jr Tom Ben			
					Circulate Cement to Pit =35 sx H-Con			
					H-Con 3% CC 1/4#/Sx Pheno-Seal =375 Sx Total			
					H-Long 10%Salt 5%Cal-Set 5#/Sx Koseal .25% Defoamer			
					.6% Fluid Loss =200 Sx Total			
					Common 2% CC 1/4 #/Sx pheno-seal =100 Sx Total			
					Rat & Mouso Hole Common 2% CC 1/4 #/Sx Pheno-seal			



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Arnold #2  
Location: 6-29S-40W  
License Number: API: 15-187-21326  
Spud Date: 04/28/16  
Surface Coordinates: 1285' FSL, 2240' FEL

Region: Stanton Co., KS  
Drilling Completed: 05/05/16

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 3314                      K.B. Elevation (ft): 3325  
Logged Interval (ft): 4200                      To: 5650                      Total Depth (ft): 5650  
Formation: Mississippian  
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

Company: White Exploration, Inc.  
Address: 1635 N. Waterfront Pkwy.  
St. 100  
Wichita, KS 67206

**GEOLOGIST**

Name: Andrew White  
Company: White Exploration, Inc.  
Address:

**Remarks**

Due to log evaluation, production casing will be run on the Arnold #2. During logging, a bridge was encountered at 5631.

**General Info**

Drilling Contractor: Murfin Rig 21

Logs: CJ Cased Hole Solutions  
Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

DST: None Taken

Surveys: 673'-.75, 1034'-.75, 2268' .25, 3062'-.5, 3660' .25, 4196'-.5, 4666'-.5, 5650'-.75

## Daily Status

4/28/16: Spud Well @ 5:30 P.M.

4/29/16: Drilling ahead @673'

4/30/16: Drilling Surface hole @1330', set 41 jts 8-5/8" 24# Casing @ 1726', 595 sacks 65/35 w/ 6% gel and 3%CC and 1/4# sack Pheno-seal, 200 sacks common w/ 2%CC and 1/4# sack Pheno-seal

5/1/16: top off with 125 sacks Common Cement

5/2/16: Drilling ahead @ 2542'

5/3/16: Drilling ahead @ 3846'

5/4/16: Drilling ahead @ 4774'

5/5/16: Drilling ahead @ 5592'

5/6/16: Laying down drill pipe to run production casing, Set 5-1/2" 15.5# Production Casing @ 5649' and Cemented with 260 sacks of cement, DV tool @ 3226', cemented with 415 sacks of cement

White Ex				White		Berexco	
Arnold #2				Arnold #1		RA 1-6	
6-29S-40W				6-29S-41W		6-29S-40W	
1285' FSL, 2240' FEL				490'FSL, 1515' FEL		800' FSL, 2975' FEL	
KB:3325				KB: 3322		KB: 3330	
Sample	Log	Datum	Relationship				
Heebner		3685	-360	+11		+9	
Lansing		3754	-429	+32		+8	
Cherokee	4546	4535	-1210	+15		+4	
Morrow	5028	5010	-1685	+14		+6	
LMM	5330	5334	-2009	+10		+5	
Miss	5530	5526	-2201	+35		+26	

### ROCK TYPES

#### LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl

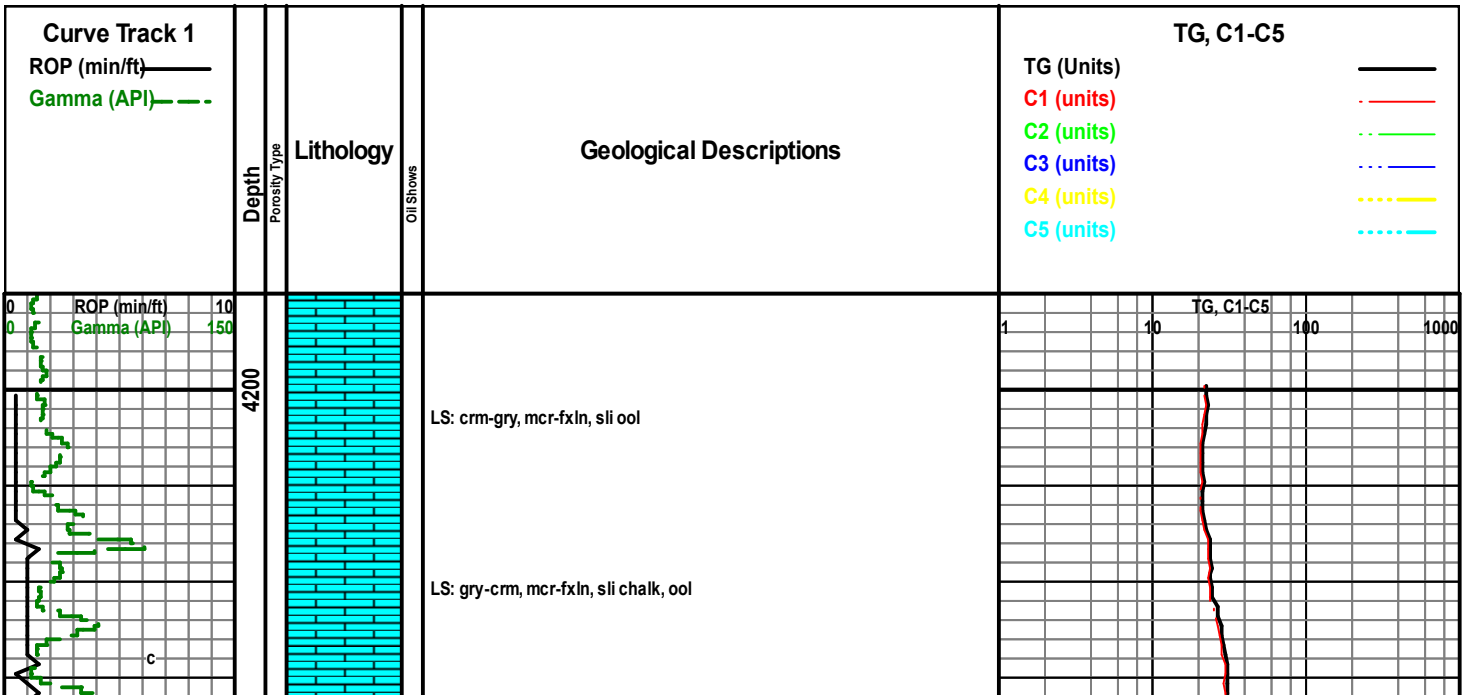
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- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale

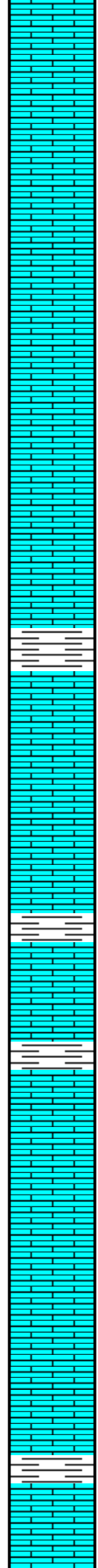
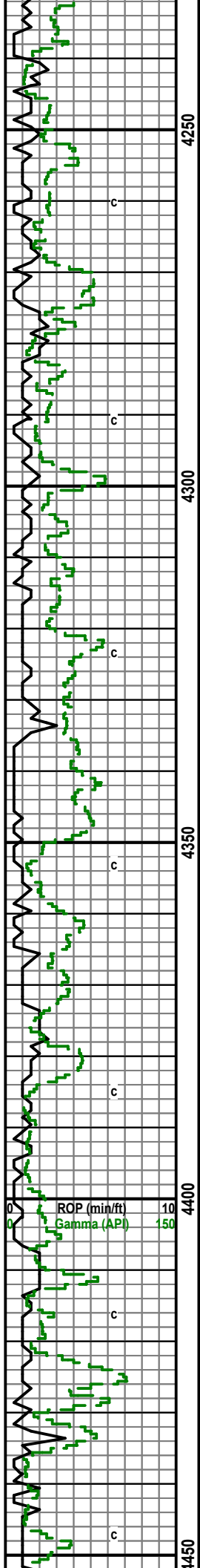
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- Ss
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- STRINGER**
- Anhy

- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg

- OIL SHOW**
- Even
  - Spotted
  - Ques
  - Dead





LS: A.A.

LS: gry, sli crm, mcrxln, sli chalk, some ool

LS: A.A.

LS: gry, mcrxln, sli ool

LS: gry, sli tan-crm, mcrxln, some fxln, Sh: gry-drk gry

LS: A.A.

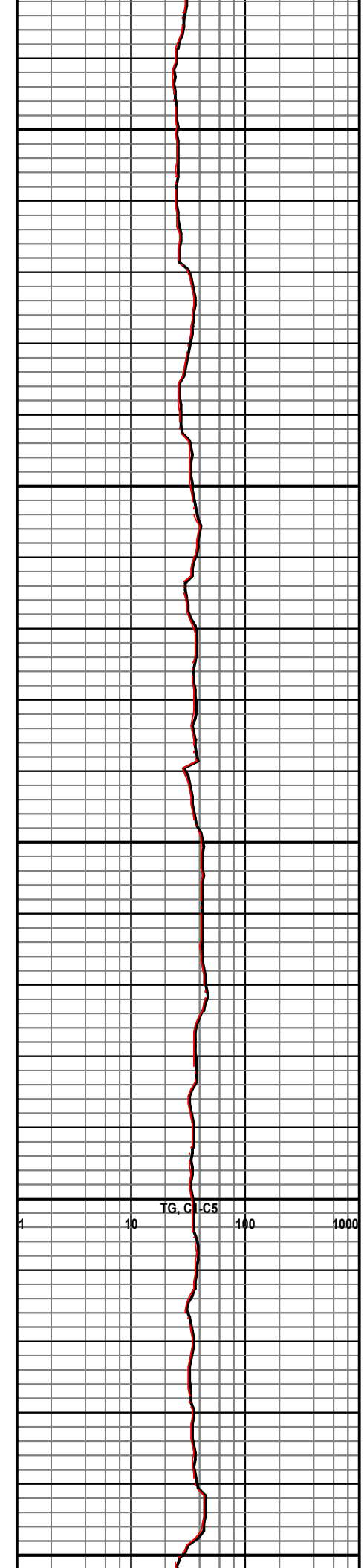
LS: gry-crm, mcrxln, sli fxln, chalk, some Sh: gry-lt gry

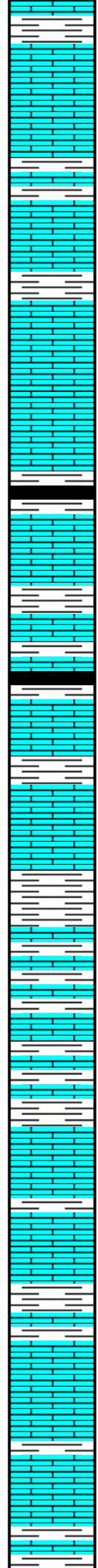
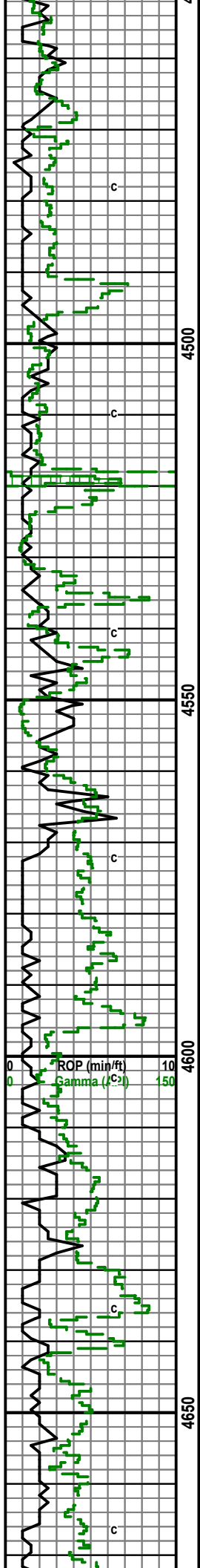
LS: A.A., Sh: A.A.

LS: crm-sli gry, mcrxln, sli fos

LS: crm-sli gry, mcrxln, few fxln, couple ool, sli fox, sli chalky

LS: A.A. with some Sh: gry





LS: crm-gry, mcrxln, sli fxln, some ool, sli fos, Sh: A.A.

LS: gry, sli crm, mcrxln, Sh: gry-drk gry

LS: and Sh: A.A.

LS: gry, sli crm, mcrxln, some Sh: gry, few blk

LS: gry-crm, mcrxln, sli chalk, some Sh: blk-drk gry

LS: and Sh: A.A.

Sh: gry w/ some LS: crm-sli tan, mcr-fxln, sli chalk

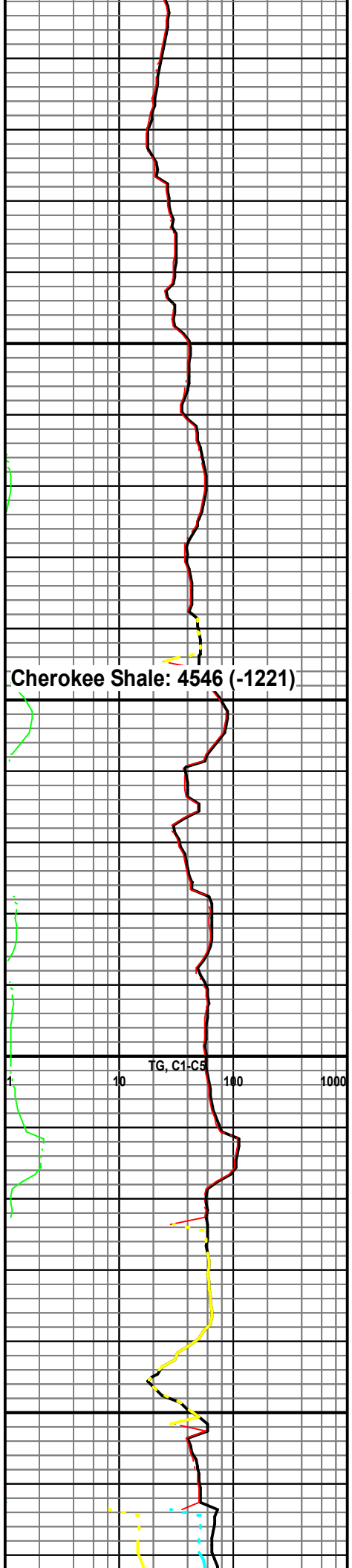
Sh: A.A., some LS: A.A.

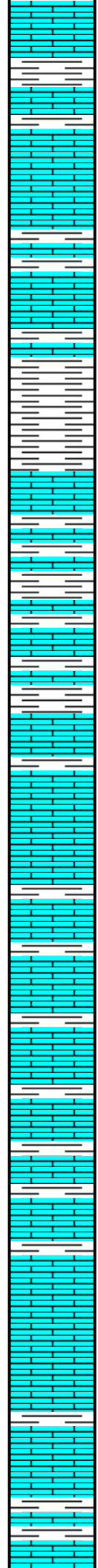
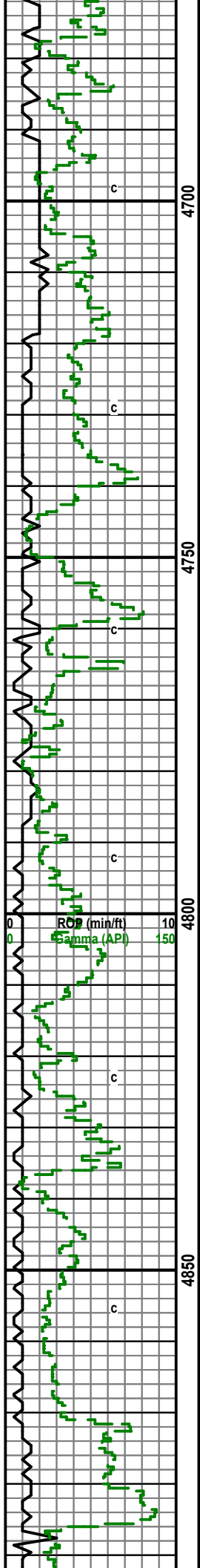
LS: crm-gry, mcrxln, Sh: gry,

Sh: gry-drk gry, LS: crm-gry, mcrxln, sli fxln

LS: A.A. w/ Sh: A.A.

**Cherokee Shale: 4546 (-1221)**





Sh: gry-drk gry, some LS: crm, fxln

LS: crm-sli tan, mcr-fxln, Sh: gry-drk gry

Sh: gry-drk gry, w/ some LS: A.A.

Sh: gry-drk gry-lt gry, some LS: gry, sli crm, f-mcrxln, sli fos

Sh: and LS: A.A.

Sh: gry-lt gry, some drk gry, LS: gry-sli crm, mcr-fxln

LS: gry-crm, mcrxln, some fxln, sli chalky, some Sh: gry-drk gry

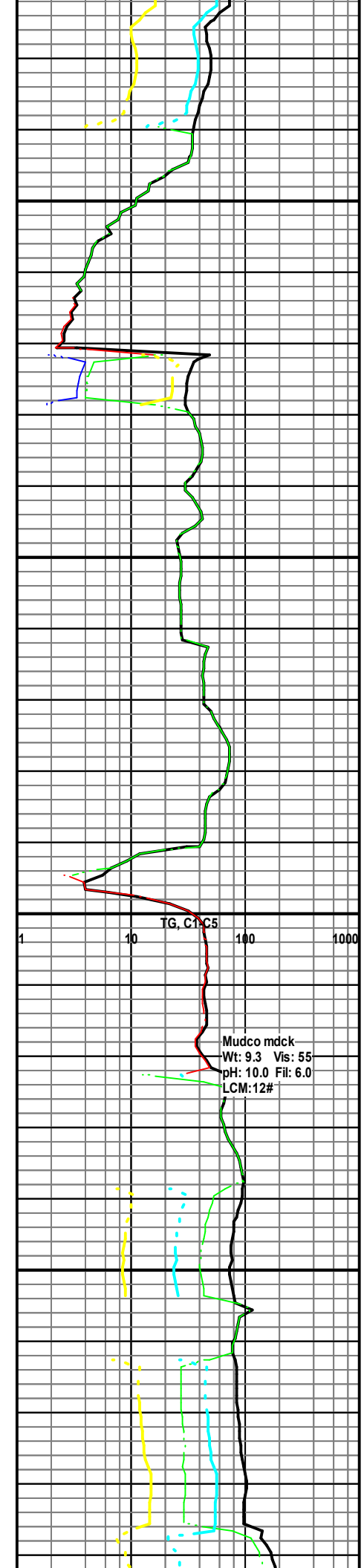
LS: gry-crm, sli tan, mcrxln, few fxln, Sh: A.A.

LS: crm-gry, mcrxln, sli chalky, Sh: A.A.

LS: A.A.

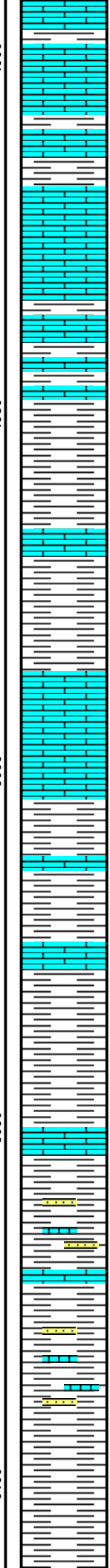
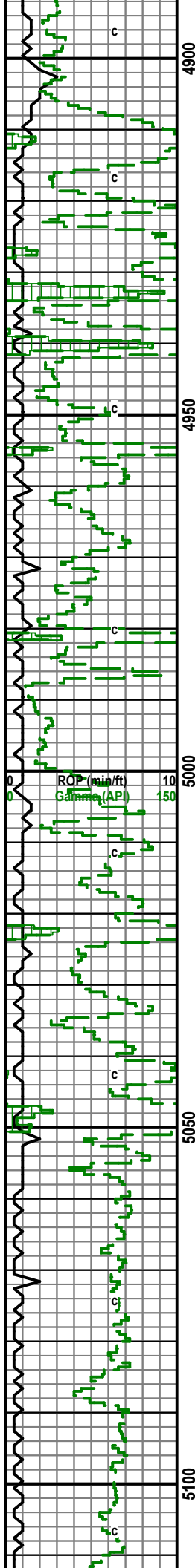
LS: gry, sli crm, mcrxln, few fxln, Sh: gry

LS: and Sh: A.A.



TG, C1, C5

Mudco mdck  
Wt: 9.3 Vis: 55  
pH: 10.0 Fil: 6.0  
LCM:12#



LS: crm-gry, mcrxln, some fxln, Sh: gry

LS: gry, sli crm, mcr-fxln, sli fos, Sh: gry-lt gry

LS: and Sh: A.A.

LS: gry, sli crm, mcrxln, Sh: gry-lt gry

A.A.

A.A.

LS: crm-gry, mcrxln, Sh: gry-drk gry-lt gry, some blk

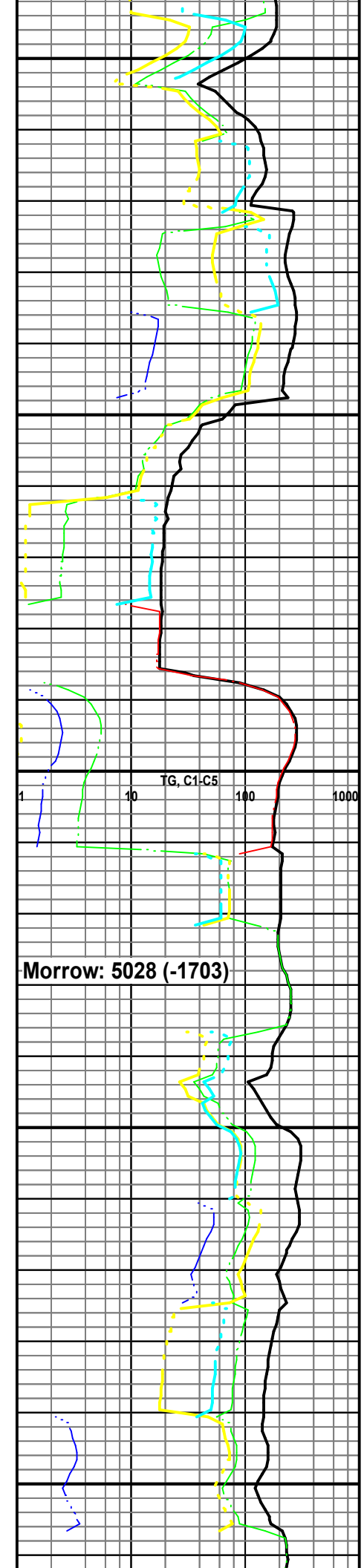
Sh: gry-drk gry, some lt gry, some LS: gry, mcrxln

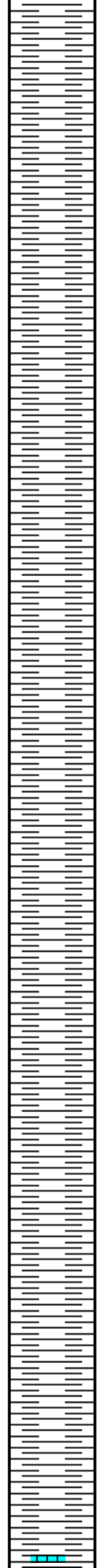
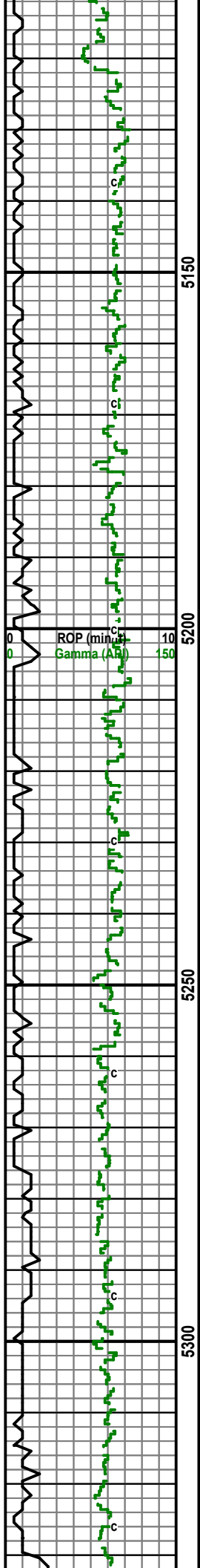
Sh: gry-drk gry-lt gry, some LS: A.A.

Sh: A.A., some LS: A.A. a few clusters of SS: clear, vf-fgm, sub md, calc mtrx, NS

Sh: gry-drk gry some lt gry, few pieces LS: gry, sli crm, mcrxln, some SS: A.A.

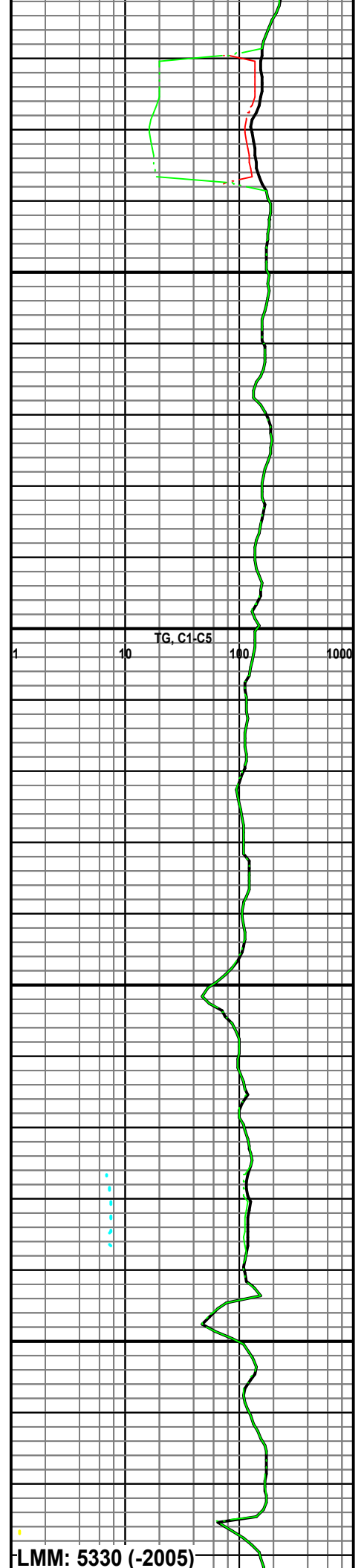
Sh: gry-drk gry





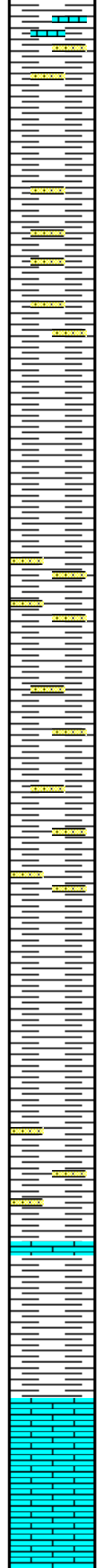
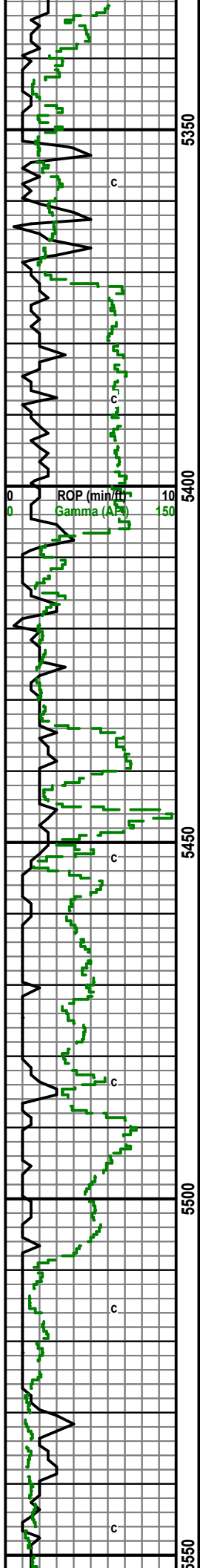
Sh: A.A.  
Sh: A.A.  
Sh: A.A.  
Sh: A.A.  
Sh: A.A.  
Sh: A.A.  
Sh: A.A.  
Sh: A.A.

Sh: A.A. with few pieces, LS: cm, mcrIn, few pieces sandy



LMM: 5330 (-2005)





Sh: gry-drk gry, some SS: clr, vf-fgrn, sub md, slii glauc, some LS: A.A.

A.A.

Sample 80% Sh, some SS: fgrn, few coarse, pr sort, sub-well rounded, dense, calc cem

Sh: gry-drk gry, some SS: A.A.

Sh: drk gry-gry

Sh: A.A. with some SS: f-vf grn, few mgrn, clr-gry, calc, no vis por, sli fri, pr sort, sub md, no fluor, NSO

Sample A.A., pr sample quality

Mostly Sh: gry-drk gry, few pieces SS: A.A.

Mostly Sh: A.A. few pieces SS: clr, f-mgrn, sli glauc, sub md, pr sort, sli fri, no fluor, NSO

A.A.

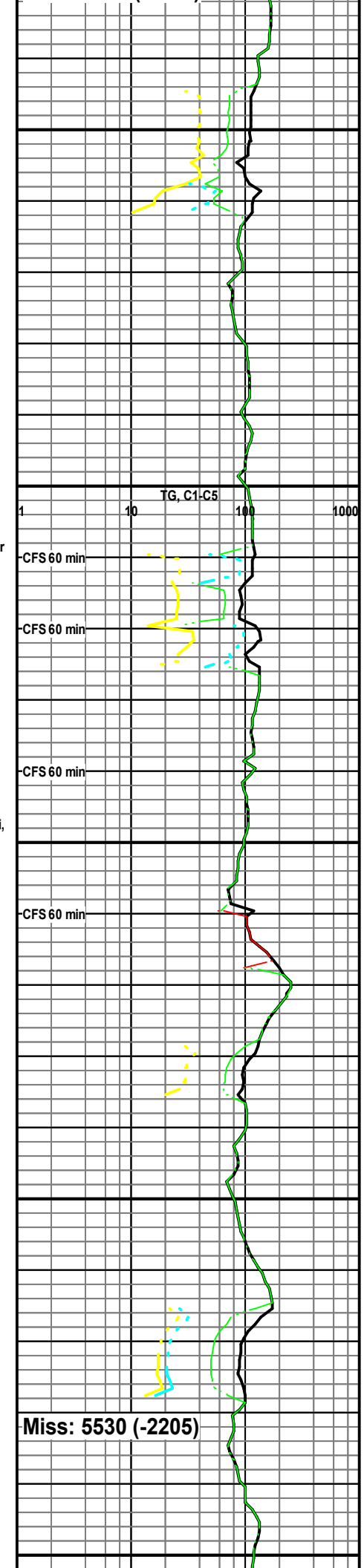
Samples mostly Sh till 5500

Sh: gry, few pieces SS: clr, vf-fgrn, sli glauc, sub md, pr sort, sli fri, NSO

Sh: gry-red, some LS: crm-reddish brwn, mcr-fxln, sandy,

LS: crm-reddish brwn-tan, mcr-fxln, some sli sandy

LS: A.A.



TG, C1-C5

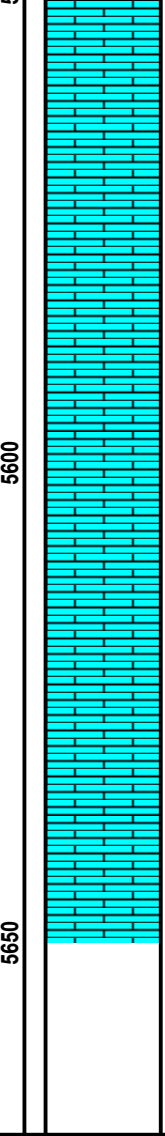
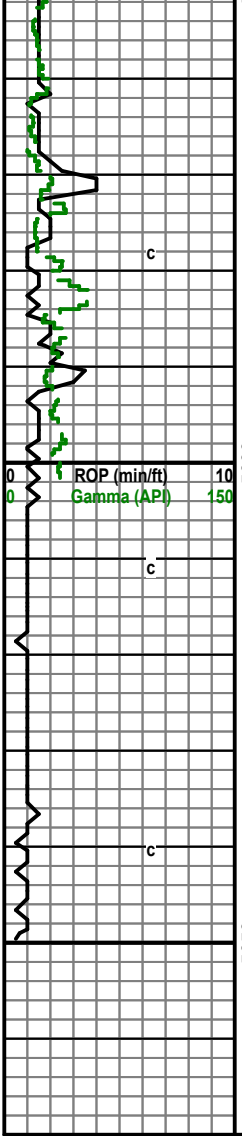
CFS 60 min

CFS 60 min

CFS 60 min

CFS 60 min

Miss: 5530 (-2205)



LS: crm, sli reddish brwn, mcr-fxln, sli sandy

LS: crm, sli rd-brwn, mcrxln, sli sandy

LS: crm-gry, mcrxln, some fxln, dense, sli fos

LS: crm-gry, mcr-fxln, some sandy,

RTD 5650

LTD 5631

