KOLAR Document ID: 1422035

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 # 33856
Name: White Exploration, Inc.
Address 1: 1635 N WATERFRONT PKWY STE 100
Address 2:
City: WICHITA State: KS Zip: 67206 + 3966
Contact Person: Kenneth S. White
Phone: (316) 682-6300
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Andrew K. White
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: F&M Oil Company, Inc.
Well Name: Pike #1
Original Comp. Date: 10/26/1981 Original Total Depth: 4321
☑ 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 #: D-32,700
☐ EOR Permit #:
☐ GSW Permit #:

08/03/2018 Spud Date or Recompletion Date
08/07/2018 Date Reached TD
09/20/2018 Completion Date or Recompletion Date

API No.: 15-007-21288-00-01
Spot Description: C SE SW
__ - __ - SE - SW Sec. 15 Twp. 31 S. R. 12 ☐ East ☑ West
660 Feet from ☐ North / ☑ South Line of Section
1980 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: (e.g. xx.xxxxx) , Long: (e.g. -xxx.xxxxx)
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barber
Lease Name: CARGILL Well #: 2
Field Name: Pike Northwest
Producing Formation: none, Arbuckle SWD
Elevation: Ground: 1610 Kelly Bushing: 1617
Total Vertical Depth: 5040 Plug Back Total Depth: 5040
Amount of Surface Pipe Set and Cemented at: 327 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: 48000 ppm Fluid volume: 1200 bbls
Dewatering method used: Haul Off Pit
Location of fluid disposal if hauled offsite:
Operator Name: White Exploration, Inc.
Lease Name: Cargill #1 License #: 33856
Quarter SE Sec. 15 Twp. 31 S. R. 12 ☐ East ☑ West
County: Barber Permit #: 15-007-21288-00-01

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: 09/21/2018
☐ **Confidential Release Date:** 09/20/2020
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 09/21/2018

Operator Name: White Exploration, Inc. Lease Name: CARGILL Well #: 2

Sec. 15 Twp. 31 S. R. 12 ☐ East ☑ West County: Barber

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Compensated Density/Neutron Log
Dual Induction Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Mississippi	304	2687
Kinderhook Shale	4448	2831
Viola	4580	2963
Simpson Shale	4660	-3043
Arbuckle	4779	-3162

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	327	Common	250	2% gel, 3% CC
Production	7.875	5.5	15.5	4820	Pro-C	150	2% gel, 10% salt, .75% C-16A, .25% C-4

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4820	5040

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
	4820	5040			5000 gallons of 28% acid

TUBING RECORD:	Size:	Set At:	Packer At:
	2.875	4800	4800

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	CARGILL 2
Doc ID	1422035

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	327	Common	250	2% gel, 3% CC
Production	7.875	5.5	15.5	4820	Pro-C	150	2% gel, 10% salt, .75% C-16A, .25% C-41P, 5% Kol-seal

QUALITY WELL SERVICE, INC.

6899

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-9-18	15	31S	12W	Barber	Ks		

Lease Cargill   Well No. # 2   Location Med Lodge, Ks. N to Gyp Hills Rd

Contractor Pickrell Drlg #10

Type Job 5½ L.S.

Hole Size 7⅞   T.D. 5040'

Csg. 5½ 15.5   Depth 4920'

Tbg. Size   Depth

Tool   Depth

Cement Left in Csg.   Shoe Joint 18.73

Meas Line   Displace 114.7

Owner

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To White Exploration Inc

Street

City   State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 180 sx Pro C 2% Gel 10% Salt .75% C-16A .25% C41-P 5#/sx Kolseal

EQUIPMENT

	No.	
Pumptrk 8	TS	
Bulktrk 10	Mike	
Bulktrk	Todd	
Pickup	Dillon	

JOB SERVICES & REMARKS

Rat Hole 30 sx

Mouse Hole

Centralizers 2-4-6-8-10-11-12-13-14-16

Baskets 2-11   120'

D/V or Port Collar Speedbars 4245'. 4416'

Run 115 jt's 5½ 15.5 csg set @ 4920'
Start csg 9:15 csg on Bottom 2:00 A.M.
Drop Ball Break Circ w/ Rig Rotate 1½
Start Pumping 5 bbls H2O 12 bbls MF
5 bbls H2O Plug R-Hole 30 sx
Start Mix Pump 150 sx Pro C @ 14.8 #/gal
Shut down wash up tk & Release LD Plug
Start Disp 73 bbls
90 at 500' 100 bbl at 700 psi
Slow Rate 5 BPM 600 110 at Slow
Rate 3 BPM Land Plug 116 at 1000'
Release Held ½ bbl Back
Good Circ thru Job
Thank You
Please Call Again
Todd Dillon TS Mike

Common	180 sx Pro C	
Poz. Mix		
Gel.	3	
Calcium		
Hulls		
Salt	20 sx	
Flowseal		
Kol-Seal	900 lbs	
Mud CLR 48	500 gal	
CFL-117 or CD110 CAF 38	C-16A 127 lbs	
Sand	C41P 42 lbs	
Handling	203	
Mileage	20	

5½ FLOAT EQUIPMENT

Guide Shoe	5½ Head & Manifold	
Centralizer	10 Turbolizer	
Baskets	2	
AFU Inserts	1 LD Plug & Baffle	
Float Shoe	1 AFU Float Shoe	
Latch Down	5½ Rotate Head	
Service Supervisor		
LMV	20	
Pumptrk Charge	Longstring	
Mileage	40	
Tax		
Discount		
Total Charge		

X
Signature [signature] w/ White Exploration

Taylor Printing, Inc.

WHITE
EXPLORATION, INC

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

Well Name:	**Cargill #2**		
Location:	**15-31S-12W**		
License Number:	**API: 15-007-21288-0001**	**Region:**	**Barber Co., KS**
Spud Date:	**08/02/18**	**Drilling Completed:**	**08/07/18**
Surface Coordinates:	**C SE SW**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1610**	**K.B. Elevation (ft):**	**1617**
Logged Interval (ft):	**4326 To: 5040**	**Total Depth (ft):**	**5040**
Formation:	**Arbuckle**		
Type of Drilling Fluid:	**Chemical**		

OPERATOR

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

GEOLOGIST

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

Remarks

Well was washed down to old RTD and deepened into the Arbuckle for SWD

General Info

Drilling Contractor: Pickrell Drilling, Rig #10

Logs: ELI Wireline Services
Compensated Density/Neutron, Dual Induction

Drilling Mud: Mudco/Service Mud, Inc.

Surveys: 4326-1.5: 5040- .5

Daily Status

08/03/18: Finish moving in and rigging up Pickrell Rig #10.
08/04/18: Spud @ 1:15 a.m. Drilling @ 160' 8 a.m.
08/05/18: Washing down @ 3030'
08/06/18: Bit trip at old RTD for PDC bit
08/07/18: Drilling @ 4695'
08/08/18: Circ after logs, prep for casing

	White Ex				White	George Jones
	Cargill #2				Cargill #1	Pike 1
	15-31S-12W				15-31S-12W	15-31S-12W
	C SE SW				1980' FSL, 1980' FEL	1980' FSL, 1980' FEL
	KB:1617				KB: 1630	KB: 1625
	Sample	Log	Datum		Relationship	Relationship
Heebner	3556	3558	-1941		-2	-2
Lansing	3768	3772	-2155		-3	+2
Stark	4106	4108	-2491		-2	-2
Miss	4301	4304	-2687		-16	-12
Kind	4443	4448	-2831		-3	-5
Viola	4581	4578	-2961		1	-1
Simp	4660	4660	-3043		-2	-8
Arbuckle	4740	4779	-3162		N/A	N/A

ROCK TYPES

LITHOLOGY

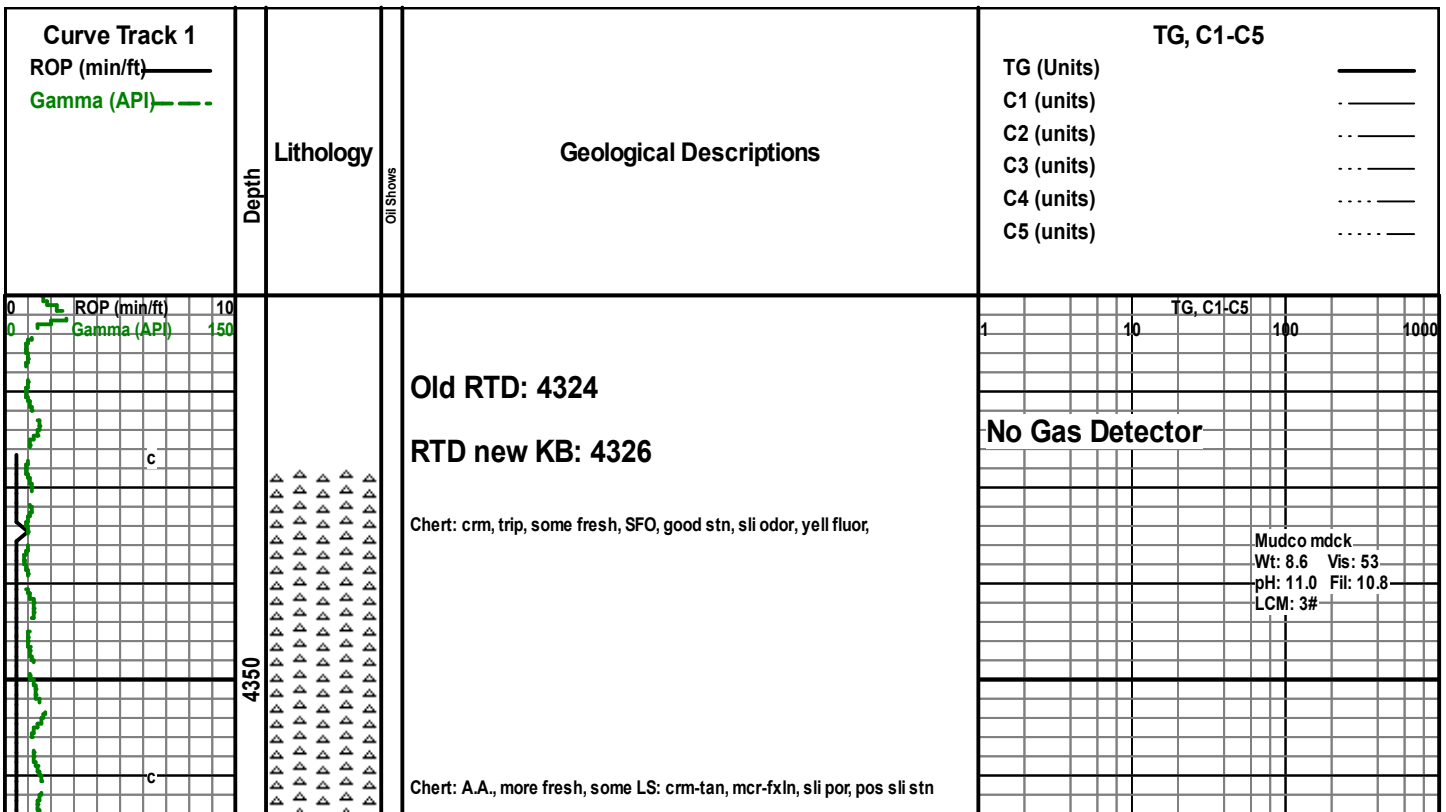
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till

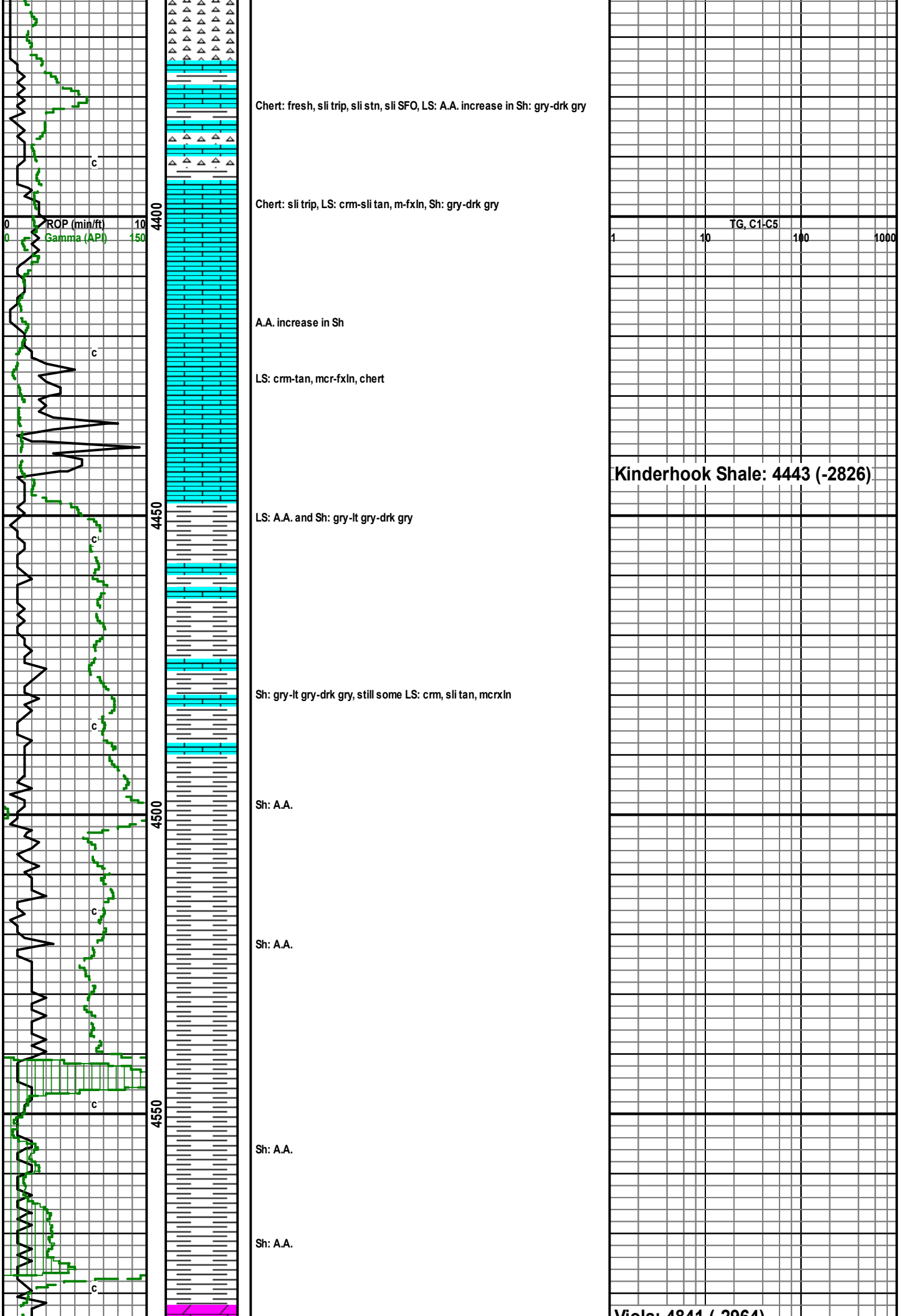
STRINGER

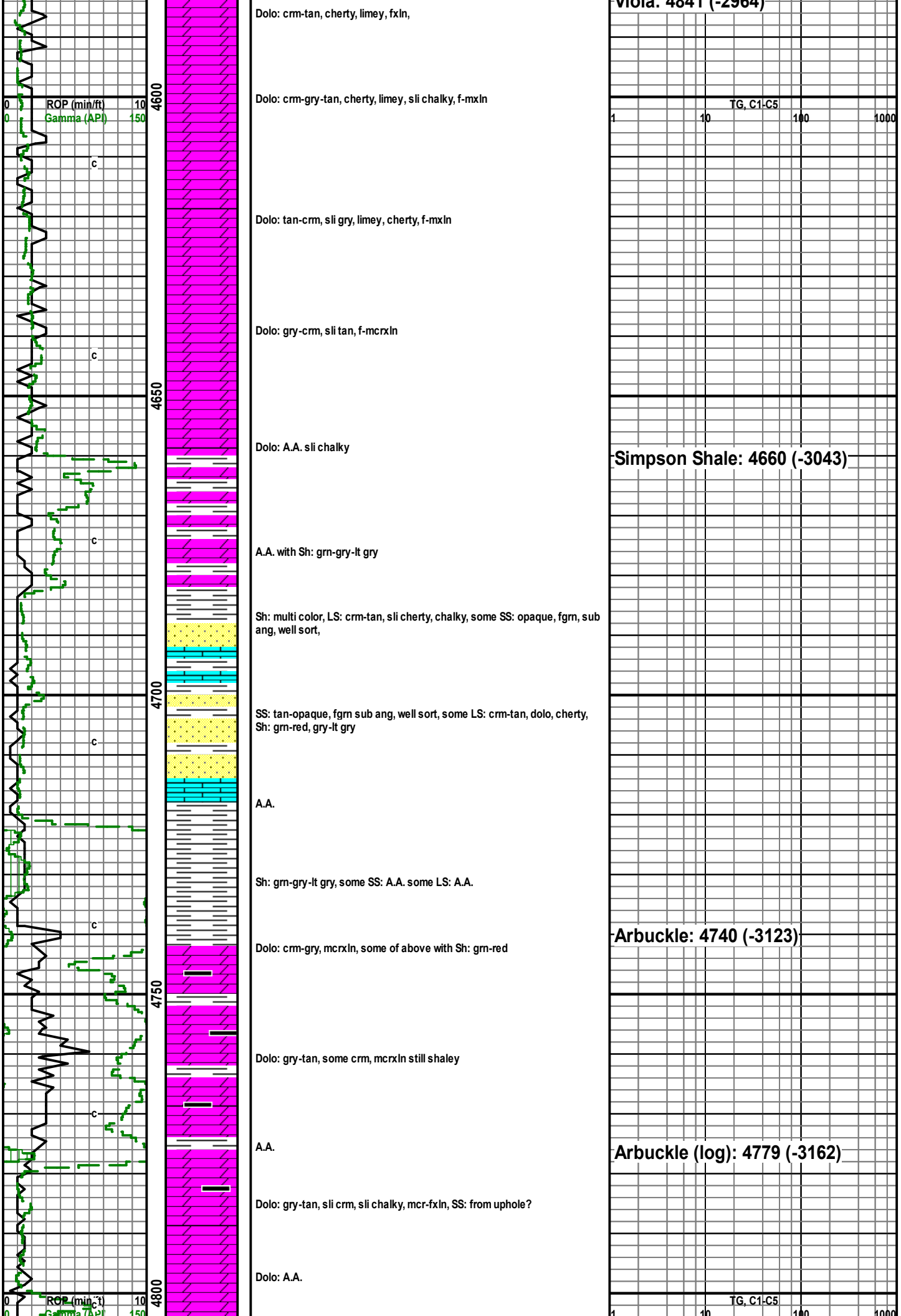
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

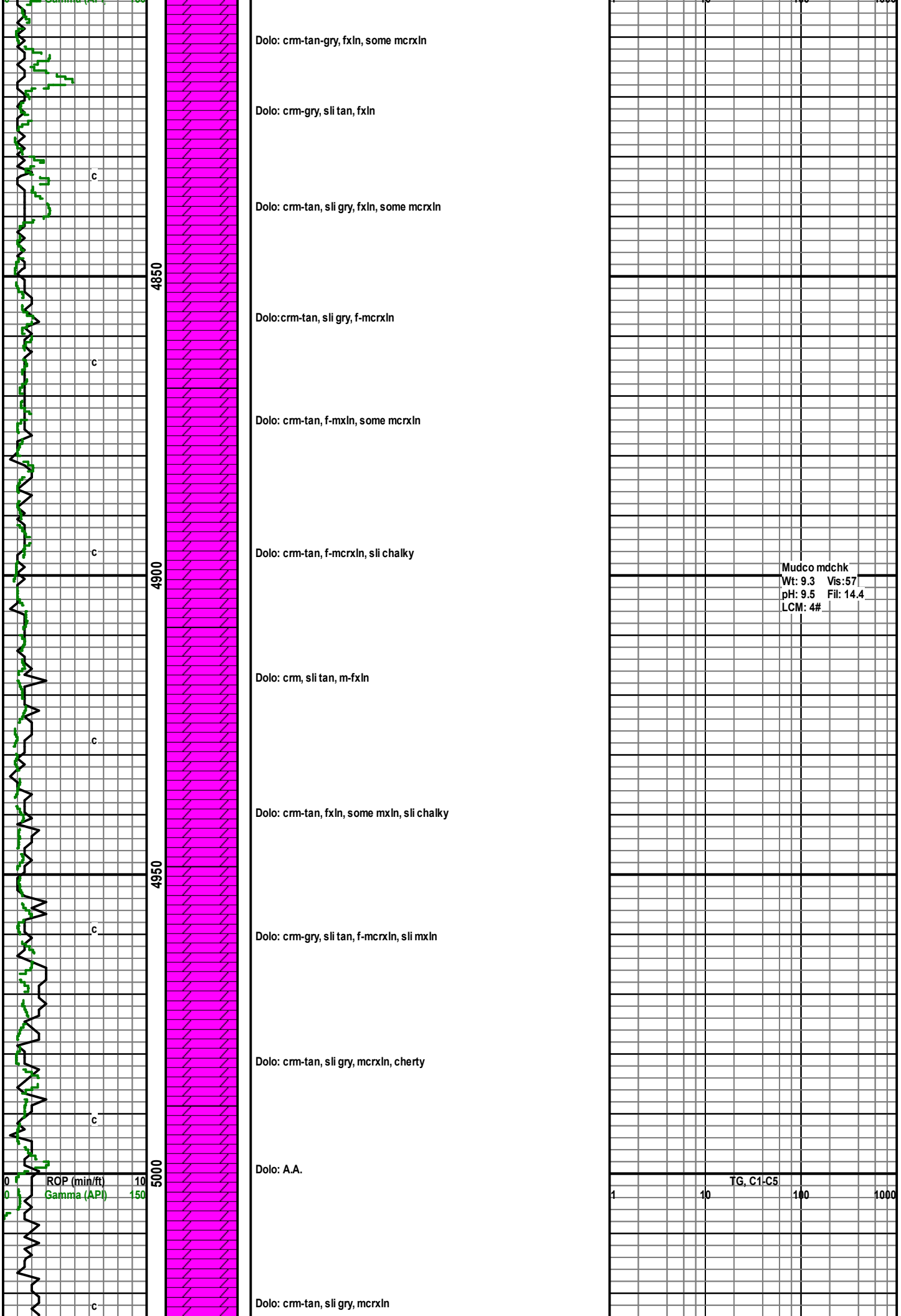
OIL SHOW

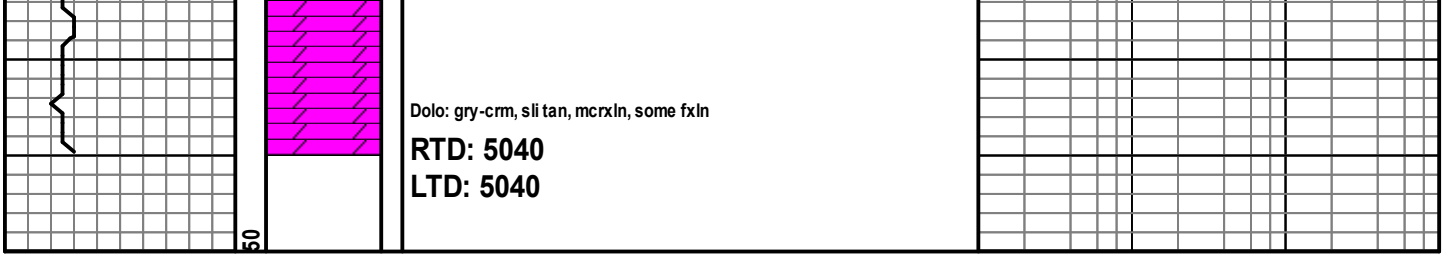
- Even
- Spotted
- Ques
- Dead




0
ROP (min/ft)
10
0
Gamma (API)
150
4400
4450
4500
4550
Chert: fresh, sli trip, sli stn, sli SFO, LS: A.A. increase in Sh: gry-drk gry
Chert: sli trip, LS: crm-sli tan, m-fxln, Sh: gry-drk gry
TG, C1-C5
1
10
100
1000
A.A. increase in Sh
LS: crm-tan, mcr-fxln, chert
Kinderhook Shale: 4443 (-2826)
LS: A.A. and Sh: gry-lt gry-drk gry
Sh: gry-lt gry-drk gry, still some LS: crm, sli tan, mcrxln
Sh: A.A.
Sh: A.A.
Sh: A.A.
Sh: A.A.
Viola: 4841 (-3964)


Viola: 4841 (-2964)
0
ROP (min/ft)
10
0
Gamma (API)
150
4600
TG, C1-C5
1
10
100
1000
c
Dolo: crm-tan, cherty, limey, fxln,
Dolo: crm-gry-tan, cherty, limey, sli chalky, f-mxln
Dolo: tan-crm, sli gry, limey, cherty, f-mxln
Dolo: gry-crm, sli tan, f-mcrxln
4650
Dolo: A.A. sli chalky
Simpson Shale: 4660 (-3043)
A.A. with Sh: grn-gry-lt gry
Sh: multi color, LS: crm-tan, sli cherty, chalky, some SS: opaque, fgrn, sub ang, well sort,
4700
SS: tan-opaque, fgrn sub ang, well sort, some LS: crm-tan, dolo, cherty, Sh: grn-red, gry-lt gry
A.A.
Sh: grn-gry-lt gry, some SS: A.A. some LS: A.A.
Arbuckle: 4740 (-3123)
Dolo: crm-gry, mcrxln, some of above with Sh: grn-red
4750
Dolo: gry-tan, some crm, mcrxln still shaley
A.A.
Arbuckle (log): 4779 (-3162)
Dolo: gry-tan, sli crm, sli chalky, mcr-fxln, SS: from uphole?
Dolo: A.A.
4800
0
ROP (min/ft)
10
0
Gamma (API)
150
TG, C1-C5
1
10
100
1000


Dolo: crm-tan-gry, fxln, some mcrxln
Dolo: crm-gry, sli tan, fxln
Dolo: crm-tan, sli gry, fxln, some mcrxln
Dolo:crm-tan, sli gry, f-mcrxln
Dolo: crm-tan, f-mxln, some mcrxln
Dolo: crm-tan, f-mcrxln, sli chalky
Mudco mdchk
Wt: 9.3 Vis:57
pH: 9.5 Fil: 14.4
LCM: 4#
Dolo: crm, sli tan, m-fxln
Dolo: crm-tan, fxln, some mxln, sli chalky
Dolo: crm-gry, sli tan, f-mcrxln, sli mxln
Dolo: crm-tan, sli gry, mcrxln, cherty
Dolo: A.A.
Dolo: crm-tan, sli gry, mcrxln
4850
4900
4950
5000
c
0
ROP (min/ft)
10
0
Gamma (API)
150
TG, C1-C5
1
10
100
1000


50
Dolo: gry-crm, sli tan, mcrxln, some fxln
RTD: 5040
LTD: 5040