

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 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
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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	Griffin, Charles N.
Well Name	MARY #2
Doc ID	1508812

All Electric Logs Run

Sonic Log
Compensated Density-Neutron PE Log
Dual Induction Log
Micro Log

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	MARY #2
Doc ID	1508812

Tops

Name	Top	Datum
King Hill	3691	-1700
Heebner	3900	-1909
Brown Lime	4068	-2077
Lansing	4091	-2100
Stark	4392	-2401
B/KC	4476	-2485
Pawnee	4538	-2547
Cherokee	4580	-2585
Viola	4632	-2641
Simp Shale	4759	-2768
Simp Sand	4788	2797
LTD	4850	-2859

QUALITY WELL SERVICE, INC. *Inw C-2205* 7280

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
11-27-19	33	29S	15W	PRATT	KI		
Lease MARY	Well No. 2	Location Pratt, KS W to 140 th rd S to 100 th Rd					
Contractor FOSSIL DEIG. RG#	Owner JE to 135 th Rd 15 TO DE 1/2 S EINTL			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.			
Type Job 4 1/2 L.S.	Charge To GRIFFIN						
Hole Size 7 7/8	T.D. 4850						
Csg. 4 1/2	Depth 4845						
Tbg. Size	Depth	Street					
Tool	Depth	City State					
Cement Left in Csg.	Shoe Joint 12.13	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace 77	Cement Amount Ordered 200 Sx PROC 1/4" PS 2% GEL 10% SALT 5 1/2 Sx KOLSEAL 6% C16A 25% C41P					
EQUIPMENT				Common 200 Sx PROC.			
Pumptrk 8 No.		Poz. Mix					
Bulktrk 10 No.		Gel. 376 #.					
Bulktrk No.		Calcium					
Pickup No.							
JOB SERVICES & REMARKS				Hulls			
Rat Hole 30 ZK	Salt 1101 #.						
Mouse Hole 20 Sx	Flowseal 50 #.						
Centralizers 1-3-5-7-9 3-4-5-6-7-8-9	Kol-Seal 1000 #.						
Baskets	Mud CLR 48 500 GAL.						
D/V or Port Collar	CFL-117 or CD110 CAF 38 C41P 47 #.						
Run 119 #s 4 1/2 10.5" CSG SETD 4845'	Sand CC-1 9 GAL. C16A 112.8 #.						
START CSG CSG ON BOTTOM TAG	Handling 246						
Hook up to CSG & BREAK CIRC W/ RIG	Mileage 25 / 6150						
DROP Ball & CIRC W/ RIG	4 1/2 FLOAT EQUIPMENT						
START Pumping 10 Bbls H ₂ O 12 Bbls MF 10 Bbls H ₂ O	Guide-Shoe 1 EA HEAD & MANIFOLD						
START PLUG R.M HOLES 50 Sx	Centralizer 6 EA.						
START Mix: Pump 150 Sx PROC 0.14.2 J CSG	Baskets						
SHUT DOWN W/ H ₂ O IN TIK Release 4 1/2 LD PLUG	AFU Inserts						
START Dig w/ 2% KCL	Float Shoe						
Lift PS. 66 out 600"	Latch Down 1 EA.						
PLUG Down 77 out 1200"	SERVICE Svp 1 FA						
PS up CSG 1600"	LNV 25						
RELEASE & HELD 1/2 Bbl BACK	Pumptrk Charge LONGSTRING						
Good Circ thro JOB	Mileage 50						
THANK YOU				Tax			
PLEASE CALL AGAIN				Discount			
X Signature <i>[Signature]</i>				Total Charge			

TODD JAMES SIMPSON

QUALITY WELL SERVICE, INC.

*Inv
C-2202* 7274

Federal Tax I.D. # 481187368

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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
11-22-19	33	29S	15W	PRATT	Ks		
Lease MARY	Well No. # 2		Location PRATT, Ks W on Hwy 54 to 140 th Rd				
Contractor Fossil Delg Rig #				Owner S to 100 th Rd 1 EA to 130 th rd 1/4 S E into			
Type Job Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4	T.D. 270'						
Csg. B5/B 23 #	Depth 268		Charge To Giffin				
Tbg. Size	Depth		Street				
Tool	Depth		City State				
Cement Left in Csg. 20'	Shoe Joint 20'		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 15.87		Cement Amount Ordered 250 sz Common				
EQUIPMENT				2' FEL 3' CL 1/2" PS			
Pumptrk 8 No.			Common 250				
Bulktrk 11 No.			Poz. Mix				
Bulktrk No.			Gel. 470 #				
Pickup No.			Calcium 705 #				
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 125 #			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run 6 ft's B5/B 23# Csg set @				Sand			
START Csg Csg on Bottom				Handling 269			
Hook up to Csg & Break circ w/ rig				Mileage 25/6725			
START Pumping 10 Bbls H ₂ O				35/B FLOAT EQUIPMENT			
START Mix 1/2 Pond 250 sz Common				Guide Shoe 1 EA 0 & manifold			
2' FEL 3' CL 1/2" PS @ 14.8 #/enl				Centralizer 1 EA B5/B WOODEN PLUG			
SHUT DOWN Release B5/B WOODEN PLUG				Baskets			
START Disp				AFU Inserts			
PLUG DOWN 15.87 Bbls				Float Shoe			
CLOSE VALVE on Csg 150"				Latch Down			
Good circ thru JOBS				SERVICE SUPPLY 1 EA			
Circ CUT TO DST				LMV 25'			
				Pumptrk Charge Surface			
THANK YOU				Mileage 50			
PLEASE CALL AGAIN							
TODD TJ JAKE							
Signature <i>Richard A. Brady</i>				Tax			
				Discount			
				Total Charge			



GRIFFIN MANAGEMENT, LLC

PO Box 347 Pratt, Kansas 67124
620.672.9700

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

Well Name: Mary #2
API: 15-151-22507
Location: SW-NE-SW-NW of Sec 33 29s 15w
License Number: 33936
Spud Date: 11/21/2019
Surface Coordinates: Lat: 37.479871
Long: -98.972184
Region: Pratt Co.
Drilling Completed: 11/26/2019

Bottom Hole Coordinates: Same as surface coordinates

Ground Elevation (ft): 1979' K.B. Elevation (ft): 1991'
Logged Interval (ft): 3600' To: 4850' Total Depth (ft): 4850'
Formation: Ordovician (Simpson) @ RTD
Type of Drilling Fluid: Mud Co. Chemical Drispac

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

OPERATOR

Company: Griffin Management, LLC
Address: P.O. Box 347

Pratt, KS 67124-0347

GEOLOGIST

Name: Eli J. Felts
Company: Griffin Management, LLC
Address: ejfelts47@gmail.com
316.204.5059

Formation Tops

SAMPLE TOPS

KING HILL	3693	(-1702)
HEEBNER	3902	(-1911)
BROWN LIME	4071	(-2080)
LANSING	4093	(-2102)
STARK	4392	(-2401)
B/KC	4478	(-2487)
PAWNEE	4542	(-2551)
CHEROKEE	4578	(-2587)
VIOLA	4631	(-2640)
SIMP SHALE	4761	(-2770)
SIMP SAND	4789	(-2798)
R TD	4850	(-2859)

LOG TOPS

KING HILL	3691	(-1700)
HEEBNER	3900	(-1909)
BROWN LIME	4068	(-2077)
LANSING	4091	(-2100)
STARK	4392	(-2401)
B/KC	4476	(-2485)
PAWNEE	4538	(-2547)
CHEROKEE	4580	(-2585)
VIOLA	4632	(-2641)
SIMP SHALE	4759	(-2768)
SIMP SAND	4788	(-2797)
LD	4850	(-2859)

Drilling Report

Fossil Drilling, Rig #3
Tool Pusher: Rick Barriger
Cell # 620.388.2676

11/21/19 Spud @ 5:30 PM

11/22/19 WOC. 270'

11/23/19 Drilling @ 1335'

11/24/19 Drilling @ 2568'

11/25/19 Drilling @ 3769'

11/26/19 Drilling @ 4750'

11/26/19 RTD @ 11:30 AM. TOOH @ 4850'
Log well & Run Casing

11/27/19 Finish Running Casing & Cement
Plug Down @ 4PM
Release Rig @ 6:00 PM

Problems






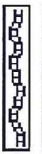





















None

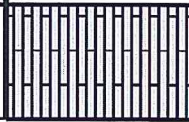
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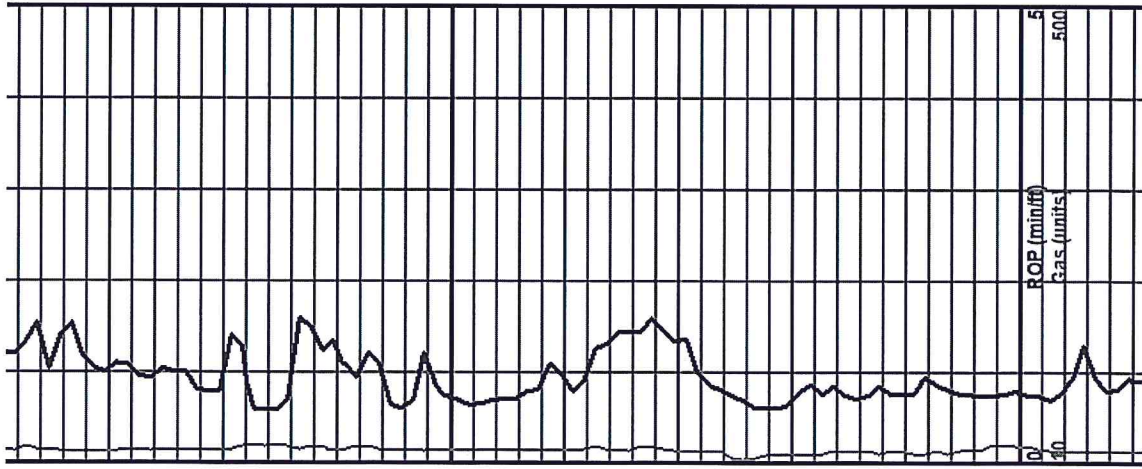
Pipe Setting

12.25" (23#) Surface @ 258'
 4.5" (10.5#) Used Longstring @ 4845' (5' off bottom)

ROCK TYPES

 Anhy	 Congl	 Granite	 Salt	 Siltst
 Bent	 Dol-cream	 Lmst tan	 Shale 2	 Ss
 Brec	 Dol	 Lmst	 Shale gry	 Till
 Cht	 Gyp	 Meta	 Shale 1	
 Clyst	 Igne	 Mrlst	 Shcol	
 Coal	 Granite 2	 Quartz	 Shgy	

Lithology	MD	Rate of Penetration ROP (m in/ft) Gas (units)	Geological Descriptions	DSTs/Mud Surveys, etc.
	Circulating Stops	Oil Shows ROP (min/ft) Gas (units)		WT 9.0 VIS: 57 LCM7# 11/21 Spud @ 5:30 PM



Samples Lagged. Sample tops reported as encountered while drilling. See header for log tops.

LS - cream to white, lt grey, fn to med xln; chalky in most; poor vis porosity; a bit of ss, trace flint residual str, no odor

LS - most white, fine to med xln, foss in some; trace pcs chly; few gummy white; no odor, no fluor

LS - cream to white, lt grey, mst med xln, sm fcs sw/pt fair intrafcs porosity; a bit of chalk; trace pcs re-xln w/ dol app; barren pores - trace shaley

11/21 Spud @ 5:30 PM
 11/22 WOC @ 2:70'
 11/23 Drilling @ 13:35'
 11/24 Drilling @ 25:68'
 11/25 Drilling @ 37:65'
 11/26 Drilling @ 47:50'
 RTD 48:50' @ 11:30 AM

3550

Wet & Dry 20' samples from 3600' - RTD

WT 9.1
 VIS: 56
 LCM# 7#

3600

	3650	
		3700 WT 9.2 VIS: 54 LC/Mt 8#

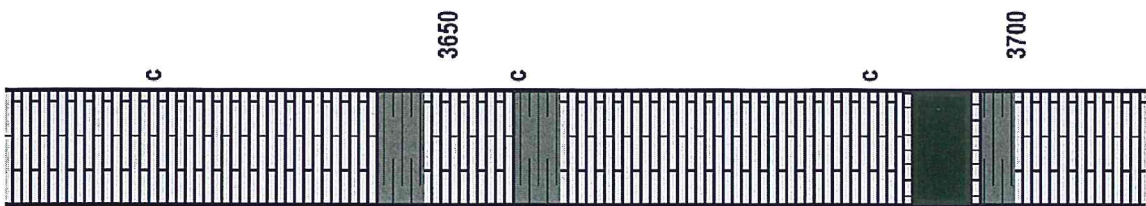
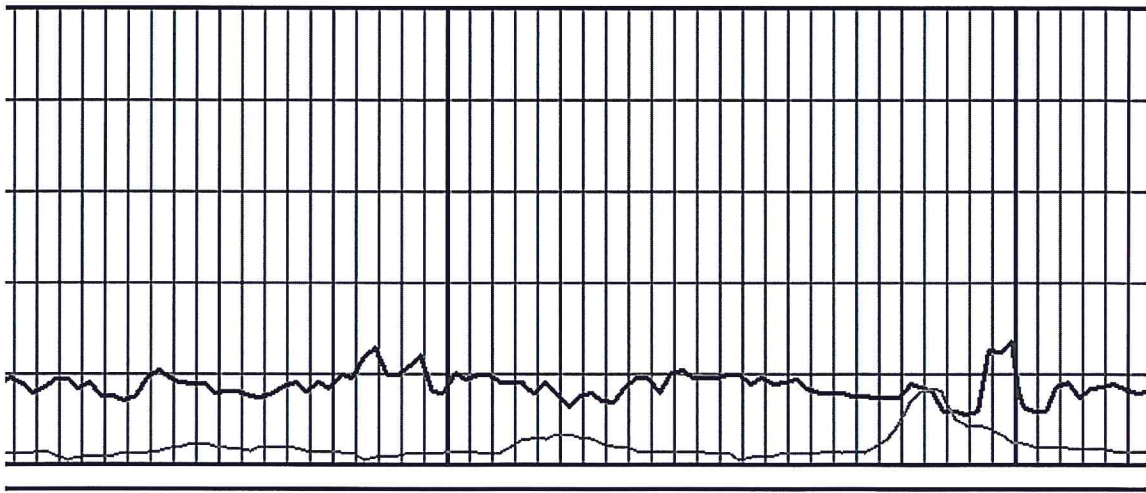
LS - crm to lt grey, fn to med xln; abdt chalky, few brown shaley streaks (interbedded); poor vis pores; oa soft & chalky

LS - mst crm, chalky aa; sm grey - med to dark, shaley, some interbedded, few trc dark shales; poss carb

LS - white, fine to med xln; v. chalky; few shale (10% dark brown to grey, organic; bleeds gas

LS - 80% white, fine xln w/ trc foss, mostly chalky & soft; ~15% dark organic shales; bleeding gas; few lt green, soft shales

LS - mst white; fn xln & chalky w/ trc foss; sft crush w/ poor vis pores; few grey, fn xln foss & sl dense & blocky; ~15% shales, med org. earthy. ocs show as s/break



3650

3700

C

C

C

<p>LCM 8#</p> <p>Mud Engineer: Brad Bortz 620.793.2421</p> <p>Mud-Co (#5) Depth: 3725' WT 9.3+ Vis. 54 Filtrate 8.8 CH 4,000 LCM 8# COST \$12,089</p>	<p>3750</p> <p>WT 9.3 VIS: 54 LCM 8#</p>	<p>Geologist on Location 7:30 AM 11/25/2019</p>
<p>3800</p>		

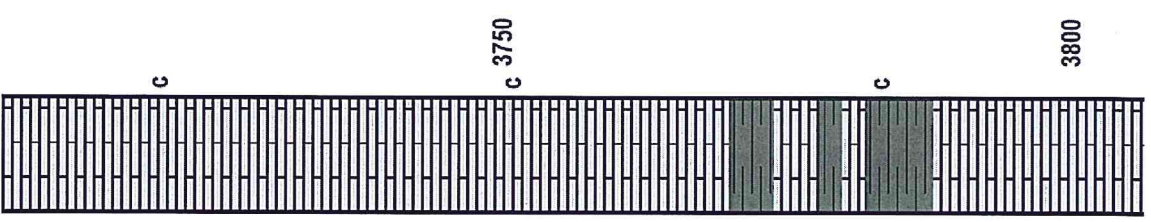
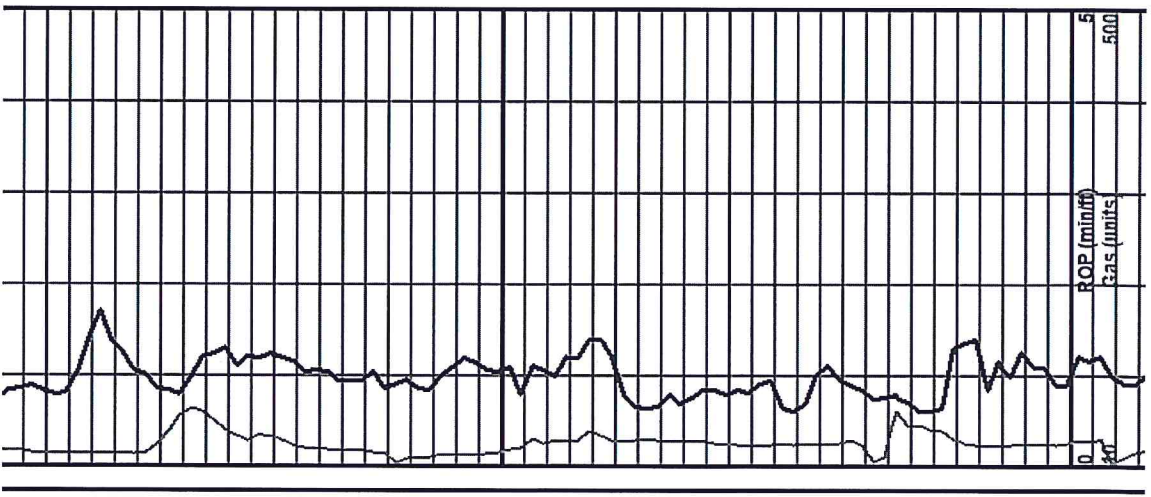
LS - mst white; fin xln & chalky w/ trc foss; sft crush w/ poor vis pors; few grey, fin xln foss & sl dense & blocky; ~15% shales, med grey, earthy; ques show gas on break

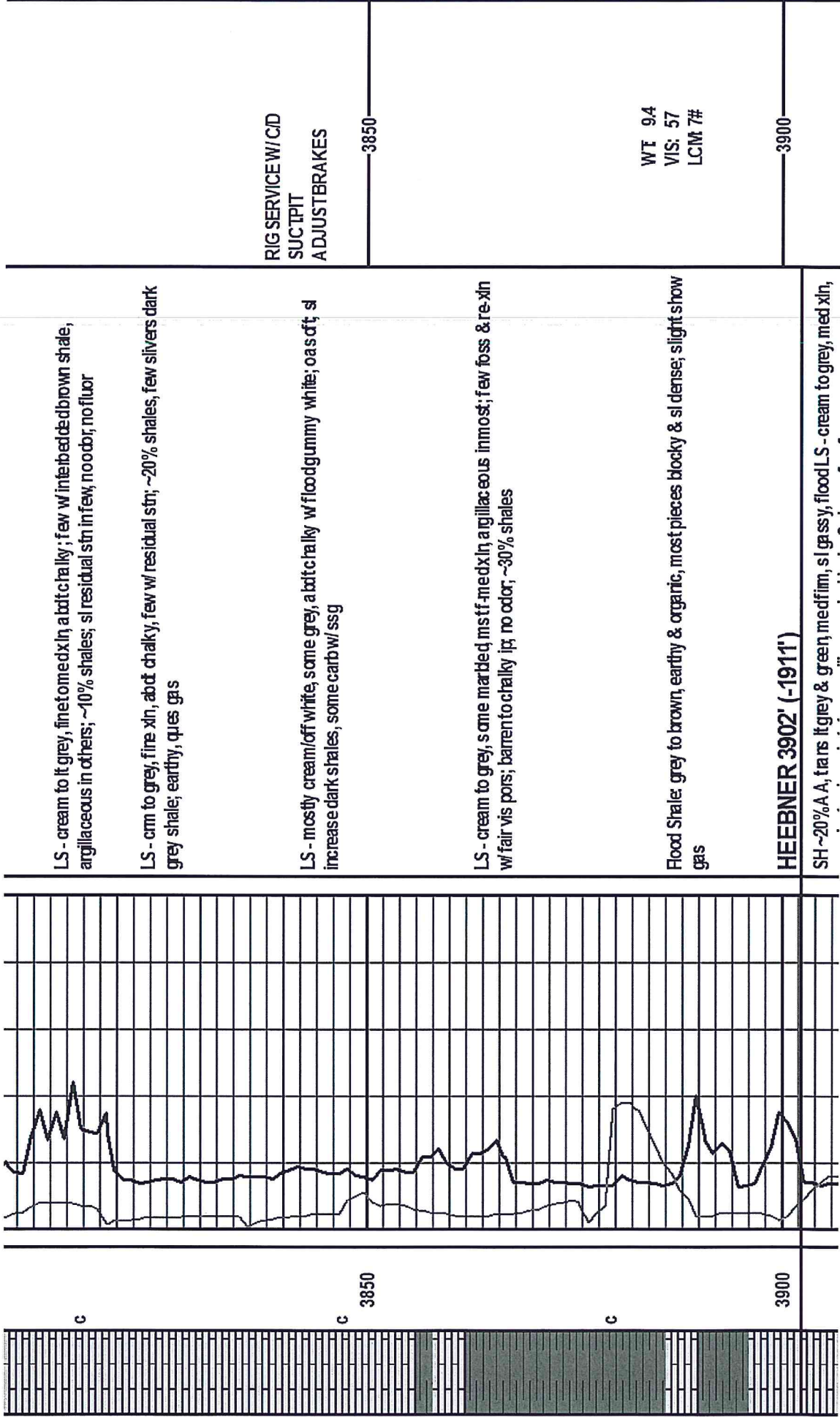
LS - crm to lt grey, fin to med xln; a bit chalky, few brown shaley streaks (interbedded); poor vis pors; oa soft & chalky & few loose grey & green shales

LS - cream to white, fine xln, v. chalky, few sl foss; oa lithographic & platy, 1-2 pcs dark brown LS - micro xln, blocky & dense, barren, no odor, ns

LS - cream & grey, mst grey to med grey, fine xln & foss; large decrease in chalky limes; few w/ gls stained frags, mostly blocky w/ no vis porosity, few foss; ~20% shales grey to green

LS - lt grey & cream, sl marbled, fine xln w/ foss ip, blocky & dense; flood grey shales ~30% sub carb; no vis gas





RIG SERVICE W/ CID
SUCTPIT
ADJUST BRAKES

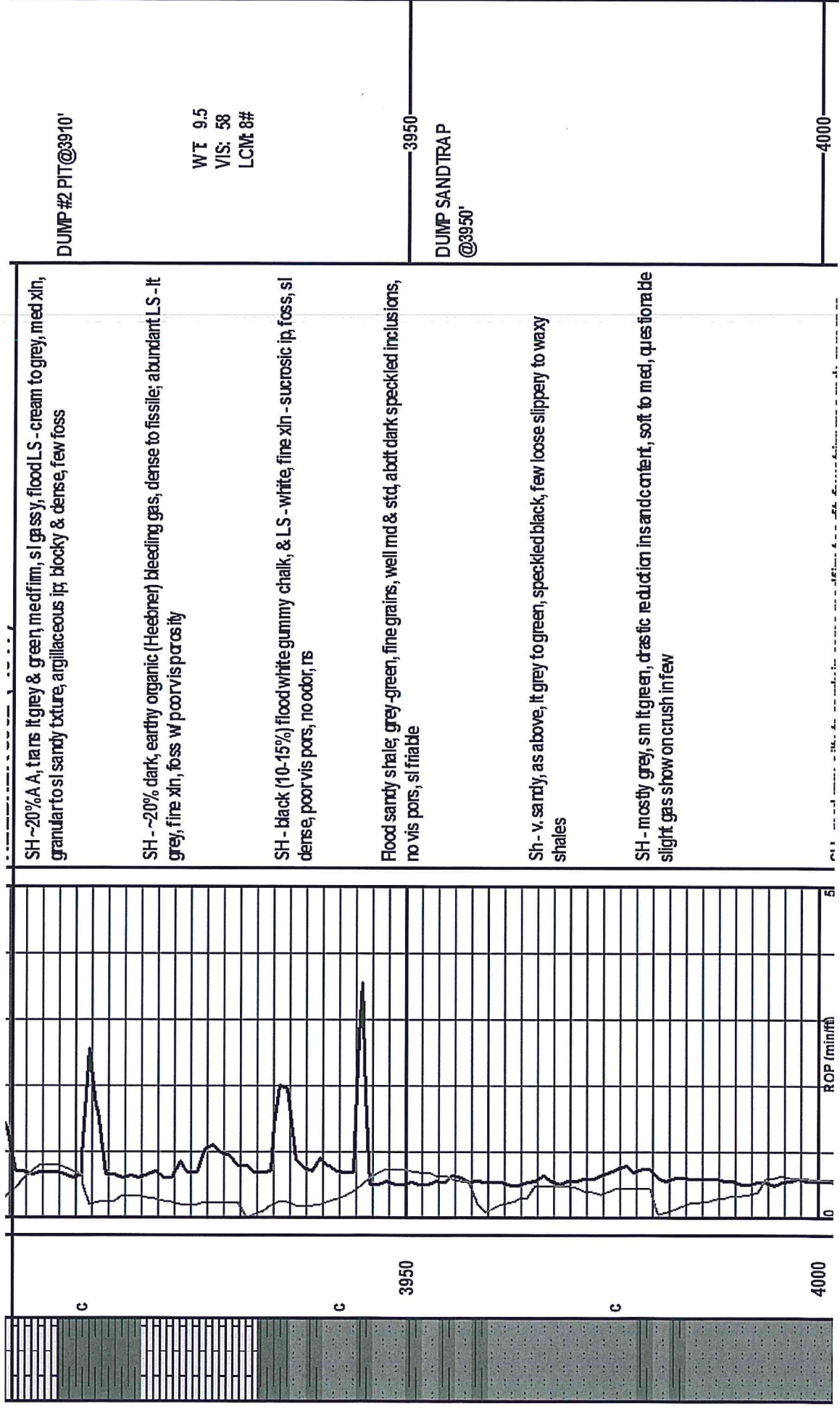
3850

WT 94
VIS: 57
LCM 7#

3900

HEEBNER 3902' (-1911')

SH ~20% A, trans lt grey & green, med fine, sl gassy, flood LS - cream to grey, med xln,



SH - ~20% A, trace of grey & green, med firm, sl gassy, flood LS - cream to grey, med xln, granular to sl sandy texture, argillaceous ip, blocky & dense, few foss

SH - ~20% dark, earthy organic (Heebner) bleeding gas, dense to fissile; abundant LS - lt grey, fine xln, foss w' poor visibility

SH - black (10-15%) flood white gummy chalk, & LS - white, fine xln - sucrosic ip, foss, sl dense, poor vis pores, no odor, ns

Flood sandy shale; grey-green, fine grains, well ind & std, abt dark speckled inclusions, no vis pores, sl friable

Sh - v. sandy, as above, lt grey to green, speckled black, few loose slippery to waxy shales

SH - mostly grey, sm lt green, drastic reduction in sand content, soft to med, questionable slight gas show on crush in few

DUMP #2 PIT @ 3910'

WT 9.5
VIS: 58
LCMP 8#

3950

DUMP SANDTRAP @ 3950'

4000

ROP (min/ft)

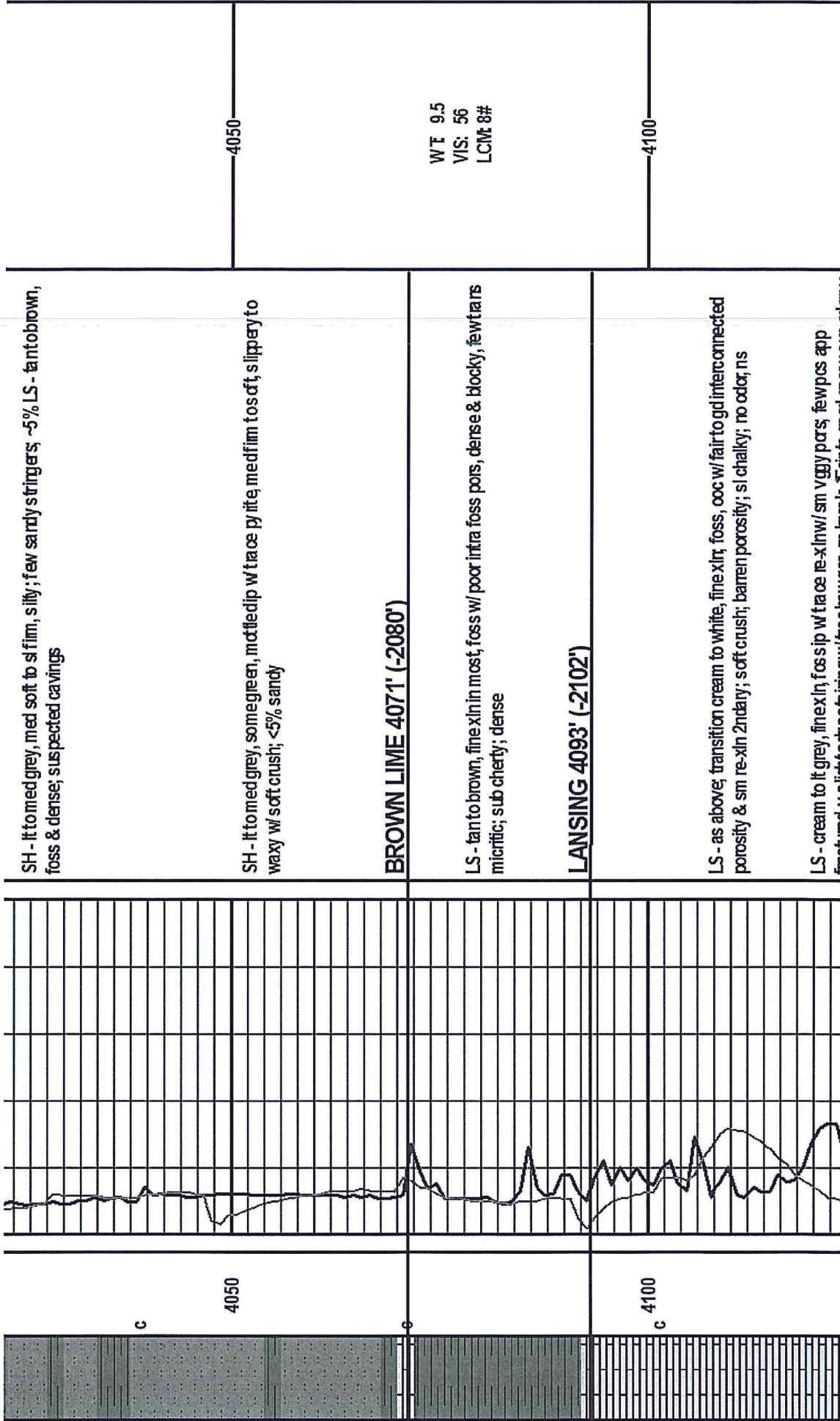
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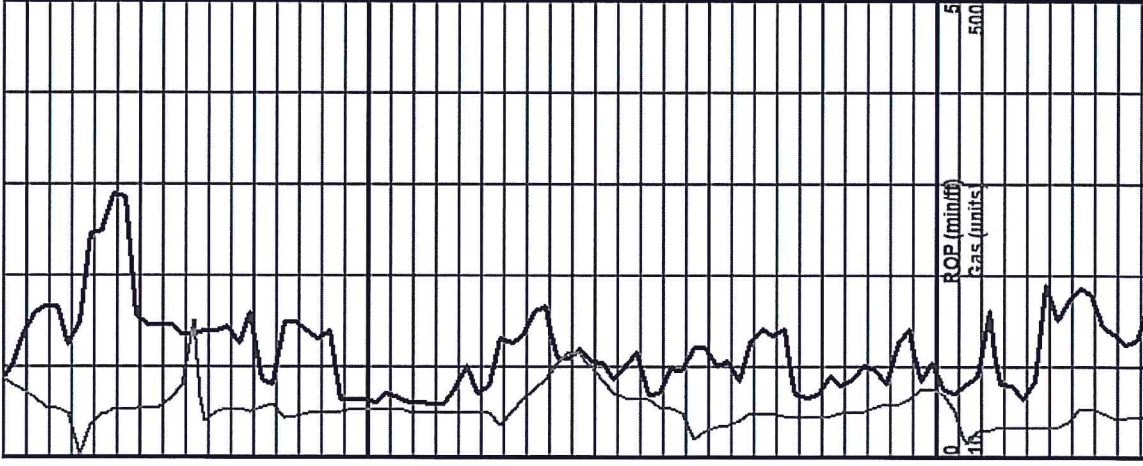
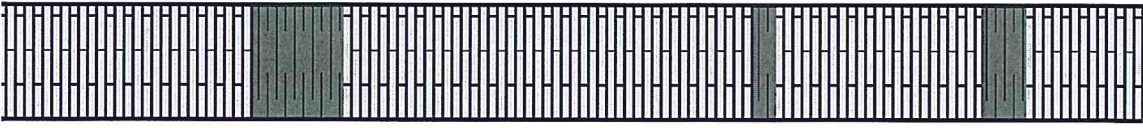
3950

G

G

G





LS - cream to lt grey, fine to med in fossiliferous trace re-xlnw/sm vggypars; few pors app fractured, v. slight edges staining/frcs how gas on break; Fair to good grassy cup odor; v few minute drops yellow fluor, not visible without fluoroscope

WT 9.5
VIS: 55
LCM: 8#

LS - cream to grey, med in a bit argillaceous to silty; fossiliferous; poorly parosity; no odor, ns

4150

WT 9.4
VIS: 58
LCM: 8#

LS - cream to grey, fine to med in v. similar, ~20% shales; slight odor in cup; no vis shows or fluor

RIG SERVICE
DUMP AND CLEAN
#1
ADD PREMIX

*sample pulverized; LS - cream to grey, some tan to brown, mst aa, trans fine to micro in blocky & dense; fossiliferous scattered chalky

4200

LS - cream to lt grey, fine to med in few tan to brown micro in, aa, overall dense, few chalky & shaly ip. No shows

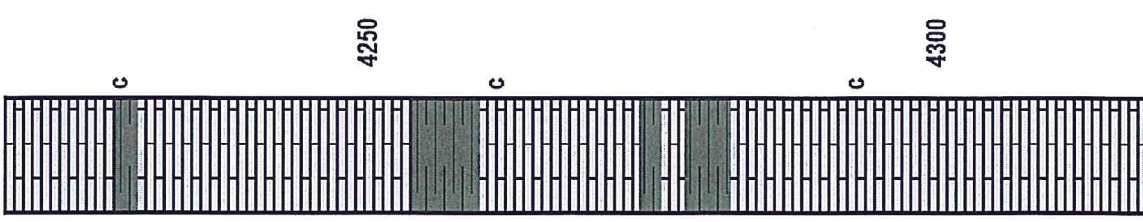
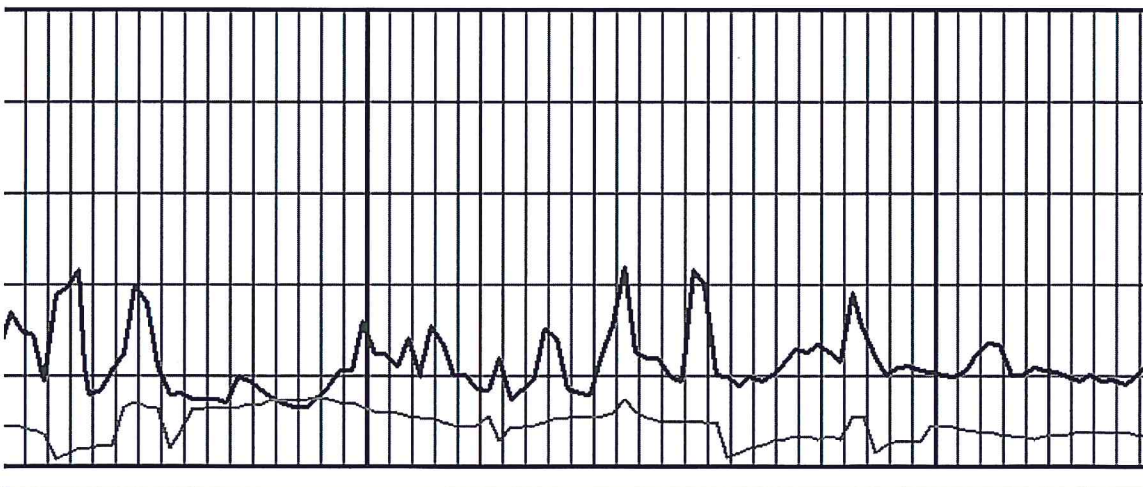


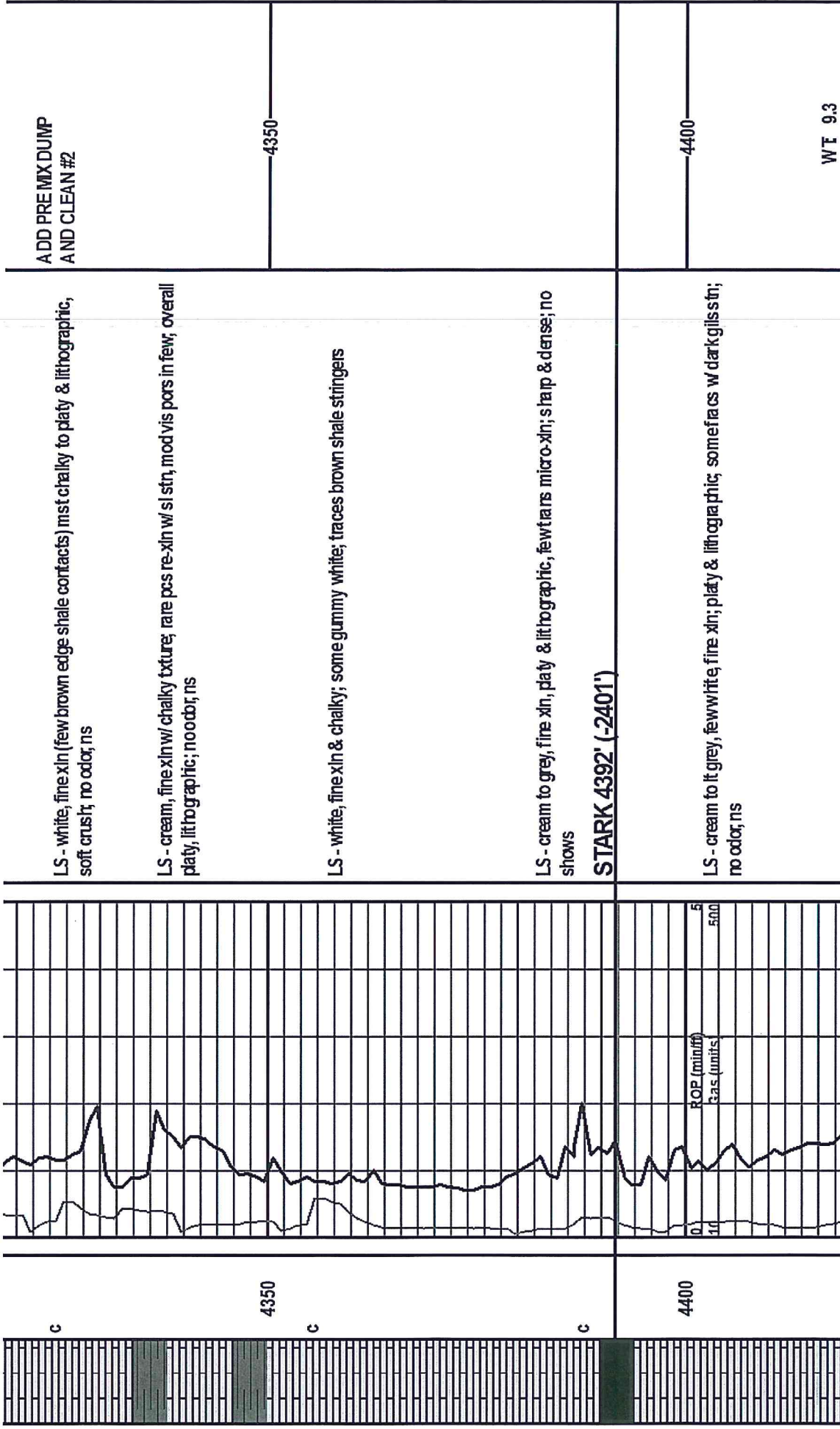
LS - cream to tan, brown, fine to med xln, chalky jxt ca blocky & dense; poor to no vis porosity; ~20% shaley

LS - cream to tan, brown, fine to med xln, abdt chalky texture, few w/ brown string in frags; argillaceous in some w/ grey & green shales; trc pyritic

LS - cream to white, fm to med xln; very chalky texture; soft crush; no vis pores; no show, nc fluor

LS - cream to lt tan, fine to med xln, mst foss w/ poorly dev intrafoss pores, few pcs coc w/ mod interconn, good vis porosity; soft crush; barren, few pcs shaley (lt green - soft & waxy w/ foss incl) no odor, ns





ADD PREMIX DUMP
AND CLEAN #2

LS - white, fine xln (few brown edge shale contacts) mst chalky to platy & lithographic, soft crust; no odor, ns

LS - cream, fine xln w/ chalky texture; rare pcs re-xln w/ sl str, mod vis pores in few; overall platy, lithographic; no odor, ns

LS - white, fine xln & chalky; some gummy white; traces brown shale stringers

LS - cream to grey, fine xln, platy & lithographic; few trns micro-xln; strap & dense; no shows

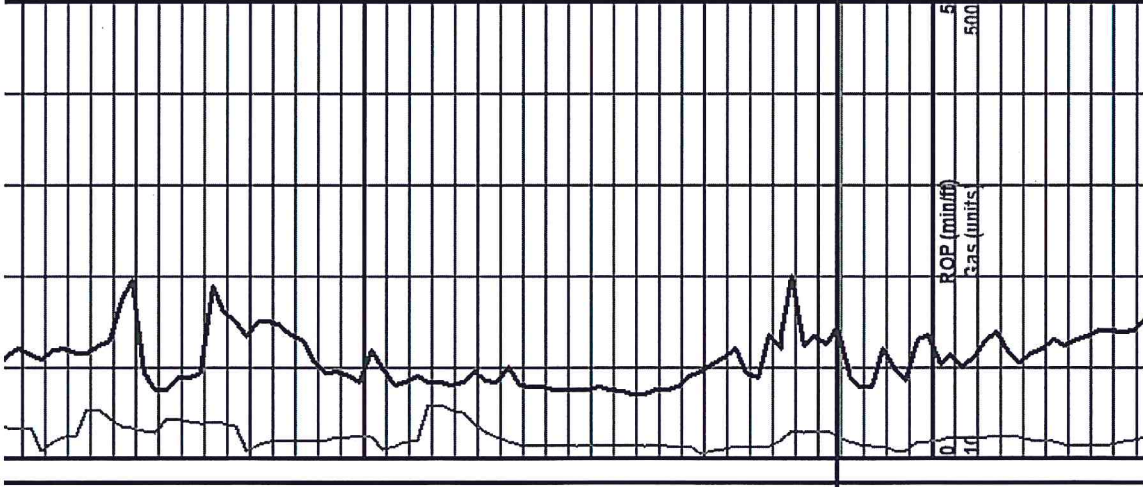
STARK 4392' (-2401')

LS - cream to lt grey, few white, fine xln; platy & lithographic; some faces w/ dark gils str; no odor, ns

4350

4400

WT 9.3



C

4350

C

C

4400

	WT 9.3 VIS: 45 LCM: 6#
4450	
DUMP SAND TRAP	

LS - cream to grey, fine to med xln, aa, trans gummy chalky & flood black carb shales, slight show gas, few lt grey & green shales

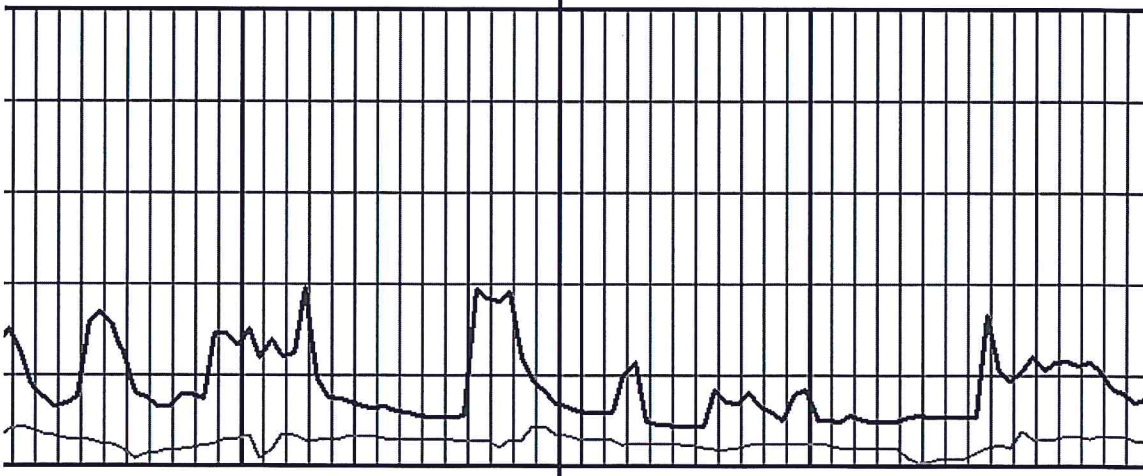
SH - flood lt grey silty shale; ~40% LS remains A, few frac'd w/ gils st'n & few pyritic stringers; no vis pores; ns

SH - grey to lt green, soft & silty, LS - tan to brown, fine to micro xln, sl fcs, blocky & dense; argillaceous ip

B/KC 4478' (-2487')

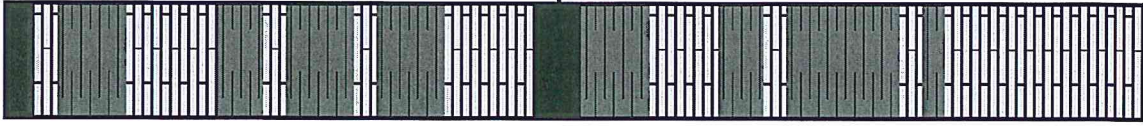
LS - cream to tan, brown, fine to micro xln, highly argillaceous; yellow, green & maroon staining; abt varicolored shales, mst green & gry

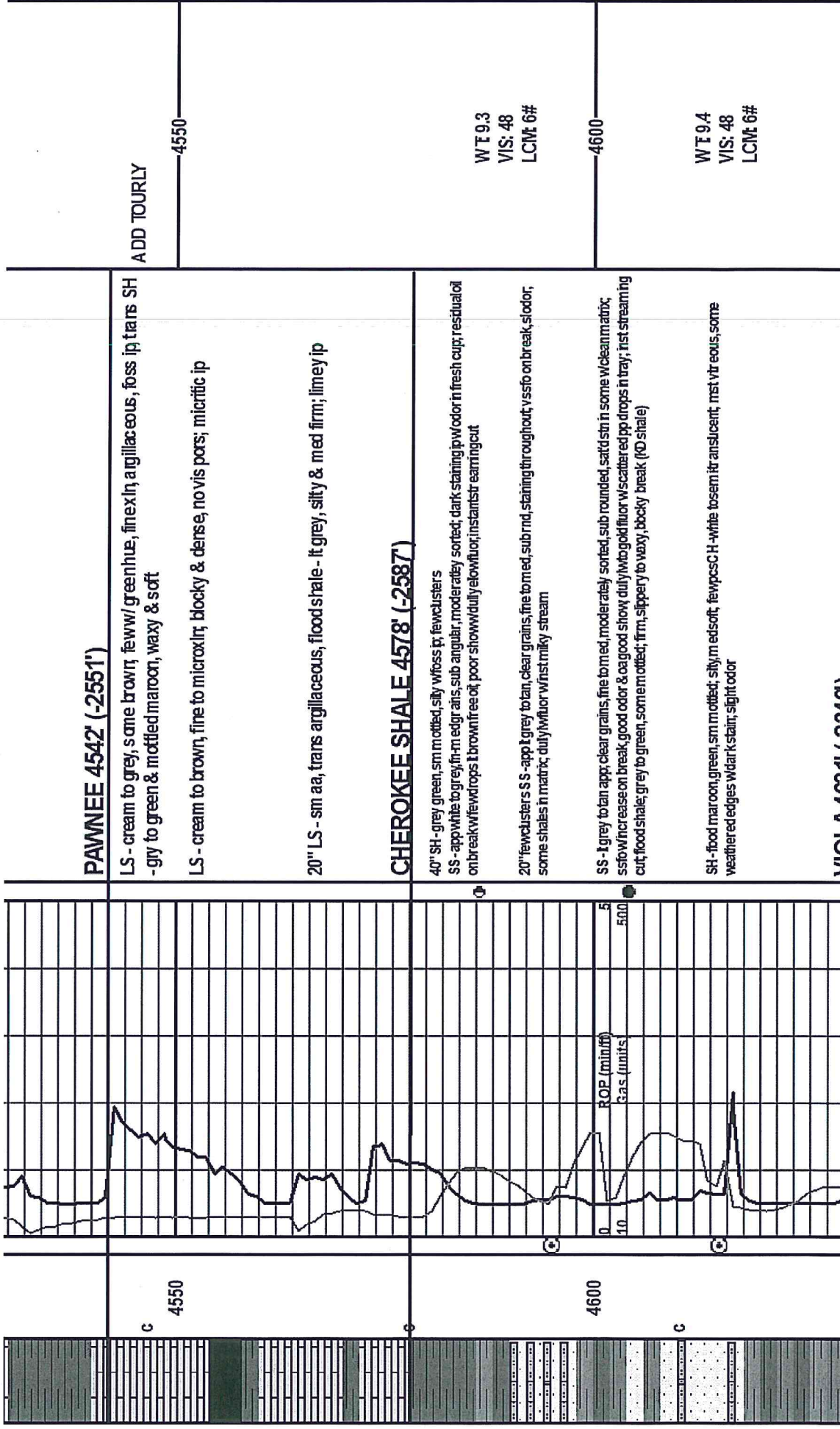
LS - cream to tan, brown, fn - micro xln; foss & blocky; argillaceous in most; abundant varicol mottled shales; gry-green, maroon, some w/ foss incl



c 4450

4500





PAWNEE 4542' (-2551')

LS - cream to grey, some brown, few w/ green hue, fine in argillaceous, foss ip trns SH -gy to green & mottled maroon, waxy & soft

LS - cream to brown, fine to micro lit, blocky & dense, no vis pores; micritic ip

20" LS - sm aa, trans argillaceous, flood shale - ft grey, silty & med firm; limey ip

CHEROKEE SHALE 4578' (-2587)

40" SH - grey green, sm mottled, silty w/ foss ip, few clusters
 SS - app white to grey, fine to med, sub angular, moderately sorted; dark staining w/ odor in fresh cut; residual oil on break w/ few drops brown in red, poor show w/ dull yellow fluor; instant str earing cut

20" few clusters SS - app t grey to tan, clear grains, fine to med, sub rnd, staining throughout, vs soft on break, s odor, some shales in matrix; dull w/ fluor w/ inst milky stream

SS - t grey to tan app, clear grains, fine to med, moderately sorted, sub rounded, sat'd str in some w/ clean matrix; ss w/ increase on break, good odor & oil good show dull w/ no gold fluor w/ scattered pp drops in tray; inst streaming cut; flood shale; grey to green, some med; firm, slippery to waxy, blocky break (NO shale)

SH - flood maroon, green, sm mottled; silty, med soft; few pccs H - white to semi tr an silicent; mst vit reous, some weathered edges w/ dark stain; slight odor

ADD TOURLY

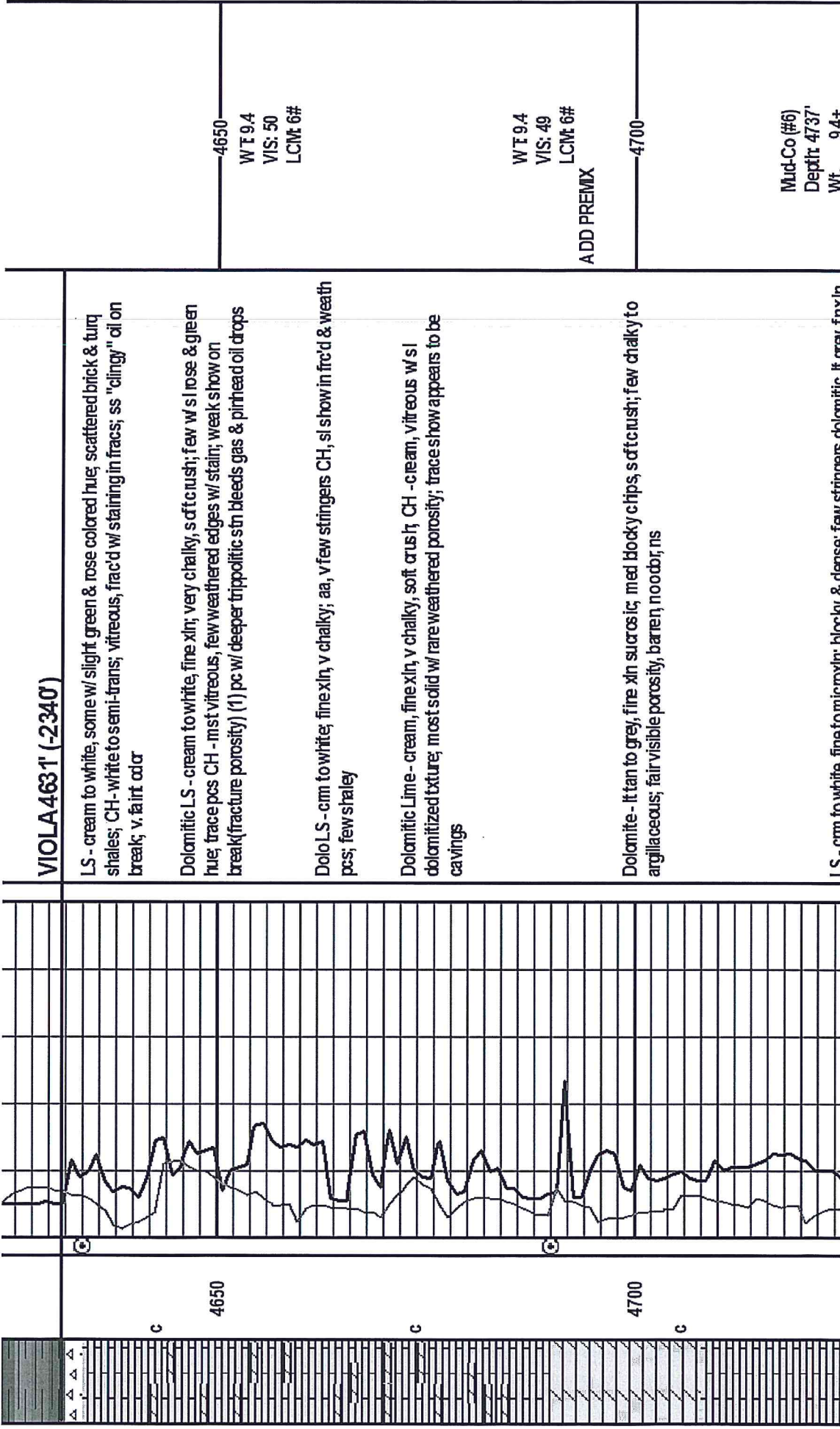
4550

WT 9.3
 VIS: 48
 LCM: 6#

4600

WT 9.4
 VIS: 48
 LCM: 6#

WELL A 15234 / 22111



VIOLA 4631' (-2340')

LS - cream to white, some w/ slight green & rose colored hue; scattered brick & turq shales; CH - white to semi-trans; vitreous; frac'd w/ staining in frags; ss "clingly" oil on break; v. faint odor

Dolomitic LS - cream to white, fine xln; very chalky; soft crush; few w/ s/l rose & green hue; trace pcs CH - mst vitreous, few weathered edges w/ stain; weak show on break (fracture porosity) (1) pc w/ deeper tripodalitic str bleeds gas & pinhead oil drops

Dolo LS - crm to white; fine xln, v chalky; aa, v few stringers CH, sl show in fr'd & weath pcs; few shaley

Dolomitic Lime - cream, fine xln, v chalky, soft crush; CH - cream, vitreous w/ s/l dolomitized texture; most solid w/ rare weathered porosity; trace show appears to be cavings

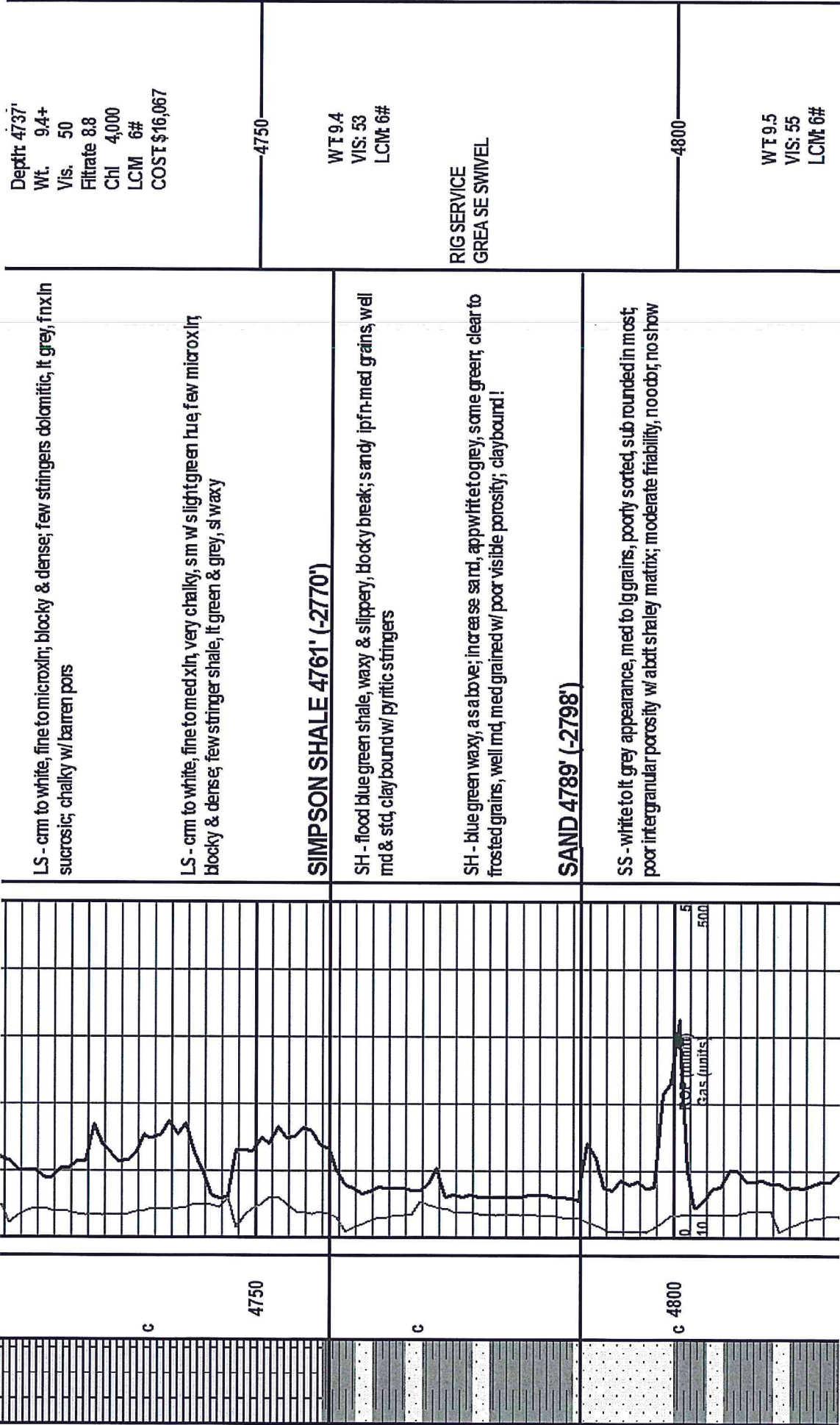
Dolomite - lt tan to grey, fine xln sucrosic; med blocky chips, soft crush; few chalky to argillaceous; fair visible porosity, barren, no odor, ns

LS - crm to white, fine to micro xln; blocky & dense; few stringers dolomitic. lt crev. frx in

4650
WT 9.4
VIS: 50
LCM# 6#

WT 9.4
VIS: 49
LCM# 6#
ADD PREMIX

Mud-Co (#6)
Depth: 4737'
Wt. 9.4+



LS - crm to white, fine to med xln; blocky & dense; few stringers dolomitic, lt grey, frn xln sucrosic; chalky w/ barren pores

LS - crm to white, fine to med xln, very chalky, sm w/ slight green hue; few micro xln; blocky & dense; few stringer shale, lt green & grey, sl waxy

SIMPSON SHALE 4761' (-2770')

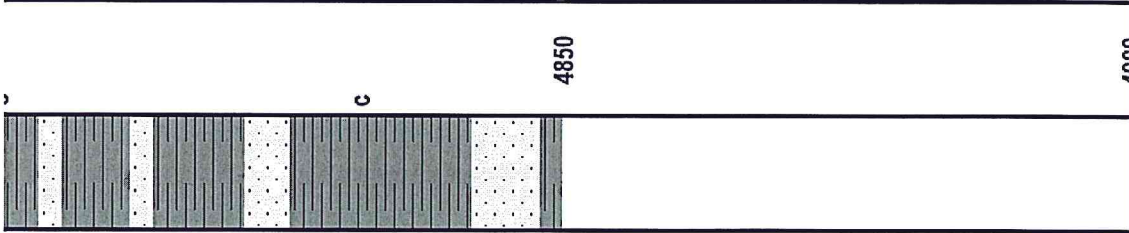
SH - flood blue green shale, waxy & slippery, blocky break; sandy ip frn-med grains, well md & std, clay bound w/ pyritic stringers

SH - blue green waxy, as above; increase sand, app white to grey, some green; clear to frosted grains, well md, med grained w/ poor visible porosity; clay bound!

SAND 4789' (-2798')

SS - white to lt grey appearance, med to lg grains, poorly sorted, sub rounded in most; poor intergranular porosity w/ abt shaley matrix; moderate friability, no cobr; no show

RIG SERVICE
GREA SE SWIVEL



WT 9.5
 VIS: 55
 LCM: 6#

WORK ON MUD
 PUMP - REPLACE
 LINER GASKETS

4850

RTD @ 11:30 AM
 11/26/2019
 C TCH (1) Hour
 Short trip to Surface Pipe
 C TCH (1.5) Hours
 Dev. Survey
 TOOH For Logs

RTD @ 4850'
 LTD @ 4850'

ELI Wireline Ran the
 following:
 >CNL/CDL w/PE
 >Dual Induction
 >Micro
 >Sonic

SS - white to lt grey, some lt green & pink hue; med grains, mod sorted; sub rounded; poor to fair intergranular porosity; barren; shaled out in 50% w/ trans back to shale

SS - white to lt grey, aa, floods and w/ black inclusions; ~60% blue-green shale, waxy

GEO LEFT LOCAL TON @ 3 AM 11/27/2019