

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) (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	BEREXCO LLC
Well Name	RAMSEY 6-14
Doc ID	1741537

All Electric Logs Run

Sonic
Microlog
Induction
Porosity

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	RAMSEY 6-14
Doc ID	1741537

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	24	1739	65/35 poz (Lead), Class A (Tail)	810	6% gel, 1/4# flakes, 3% CC (Lead), 2% gel, 1/4# flakes, 2% CC (Tail)
Production	7.875	5.5	15.5	4891	50/50 poz (Lead), Class H (Tail)	250	8% gel, 1/4# flakes, 0.3% fluid loss (Lead), 10% gyp, 10% salt, 0.5% fluid loss, 2# sk tactical blitz (Tail)







**QUASAR ENERGY SERVICES, INC.**

3288 FM 51

Gainesville, Texas 76240

Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2N.2

11/9/23

CEMENTING JOB LOG

**CEMENTING JOB LOG**

<b>Company:</b> BEREXCO INC	<b>Well Name:</b> RAMSEY UNIT #6-14
<b>Type Job:</b> LONG STRING	<b>AFE #:</b> 0

CASING DATA				
<b>Size:</b> 5 1/2	<b>Grade:</b> J55	<b>Weight:</b> 15.5		
<b>Casing Depths</b>	<b>Top:</b> 43.5	<b>Bottom:</b> 4903.23		
<b>Drill Pipe:</b>	<b>Size:</b> 0	<b>Weight:</b> 0		
<b>Tubing:</b>	<b>Size:</b> 0	<b>Weight:</b> 0	<b>Grade:</b> 0	<b>TD (ft):</b> 4900
<b>Open Hole:</b>	<b>Size:</b> 7 7/8	<b>T.D. (ft):</b> 4900		
<b>Perforations</b>	<b>From (ft):</b> 0	<b>To:</b> 0	<b>Packer Depth(ft):</b> 3174 DVT	

CEMENT DATA						
<b>Spacer Type:</b>		MS SPACER				
<b>Amt.</b>	10 BBL	<b>Sks Yield</b>		<b>ft<sup>3</sup>/sk</b>		<b>Density (PPG)</b>
<b>LEAD:</b>	CLASS A -- 50/50-8 -- .3% C19, 1/4# CELLFLAKE					Excess
<b>Amt.</b>	100	<b>Sks Yield</b>	3.2	<b>ft<sup>3</sup>/sk</b>		<b>Density (PPG)</b> 10.8
<b>TAIL:</b>	CLASS H -- 10% GYP, 10% SALT, .5% C17, 2# BLITZ					Excess
<b>Amt.</b>	150	<b>Sks Yield</b>	1.53	<b>ft<sup>3</sup>/sk</b>		<b>Density (PPG)</b> 14.8
<b>WATER:</b>						
<b>Lead:</b>		<b>gals/sk:</b>	20	<b>Tail:</b>		<b>gals/sk:</b> 7.3 <b>Total (bbls):</b>
<b>Pump Trucks Used:</b>	110 -- DP4					
<b>Bulk Equipment:</b>	227 -- 660-25					
<b>Disp. Fluid Type:</b>	WATER/MUD	<b>Amt. (Bbls.)</b>		<b>Weight (PPG):</b>		
<b>Mud Type:</b>				<b>Weight (PPG):</b>		

**COMPANY REPRESENTATIVE:** \_\_\_\_\_ **CEMENTER:** KIRBY HARPER

TIME AM/PM	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
0630						ON LOCATION -- SPOT AND RIG UP
1330						CASING ON BOTTOM -- BREAK CIRC.
1437						PRESSURE TEST
1439	150			10	4	PUMP 10 BBL MS SPACER
1442	250			57	6	MIX 100 SK LEAD @ 10.8 PPG
1451	200			41	5	MIX 150 SK TAIL @ 14.8 PPG
1501						SHUT DOWN -- DROP PLUG -- CLEAN LINES
1508	100			0	5	DISPLACE WITH WATER
1517	200			50	5	DISPLACE WITH MUD
1521	50			70	2	SLOW RATE -- PLUG GOING THRU TOOL
1529	300			80	5	RESUME RATE
1536	750			106	2	SLOW RATE
1537	850-1500			116		BUMP PLUG
1538	1500-0					RELEASE PRESSURE -- FLOATS HELD
1543	--					DROP OPENING TOOL
1600	800					OPEN TOOL -- WOC -- CIRC. THRU TOOL
						CONTINUED ON NEXT PAGE

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CEMENTING JOB LOG

**CEMENTING JOB LOG**

Company: **BEREXCO INC** Well Name: **RAMSEY UNIT #6-14**

Type Job: **LONG STRING** AFE #: **0**

**CASING DATA**

Size: **5 1/2** Grade: **J55** Weight: **15.5**

Casing Depths Top: **43.5** Bottom: **4903.23**

Drill Pipe: Size: **0** Weight: **0**

Tubing: Size: **0** Weight: **0** Grade: **0** TD (ft): **4900**

Open Hole: Size: **7 7/8** T.D. (ft): **4900**

Perforations From (ft): **0** To: **0** Packer Depth(ft): **3174 DVT**

**CEMENT DATA**

**Spacer Type:**

Amt.	Sks Yield	ft <sup>3</sup> /sk	Density (PPG)
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**LEAD:** CLASS A -- 50/50-8 -- .3% C19, 1/4# CELLFLAKE Excess

Amt.	250	Sks Yield	3.2	ft <sup>3</sup> /sk	Density (PPG)	10.8
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**TAIL:** CLASS H -- 10% GYP, 10% SALT, .5% C17, 2# BLITZ Excess

Amt.	50	Sks Yield	1.53	ft <sup>3</sup> /sk	Density (PPG)	14.8
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**WATER:**

Lead	gals/sk	20	Tail	gals/sk	7.3	Total (bbls)
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Pump Trucks Used: **110 -- DP4**

Bulk Equipment: **134 -- 660-38**

Disp. Fluid Type:	FRESH WATER	Amt. (Bbls.)	75	Weight (PPG):	8.33
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Mud Type:	Weight (PPG):
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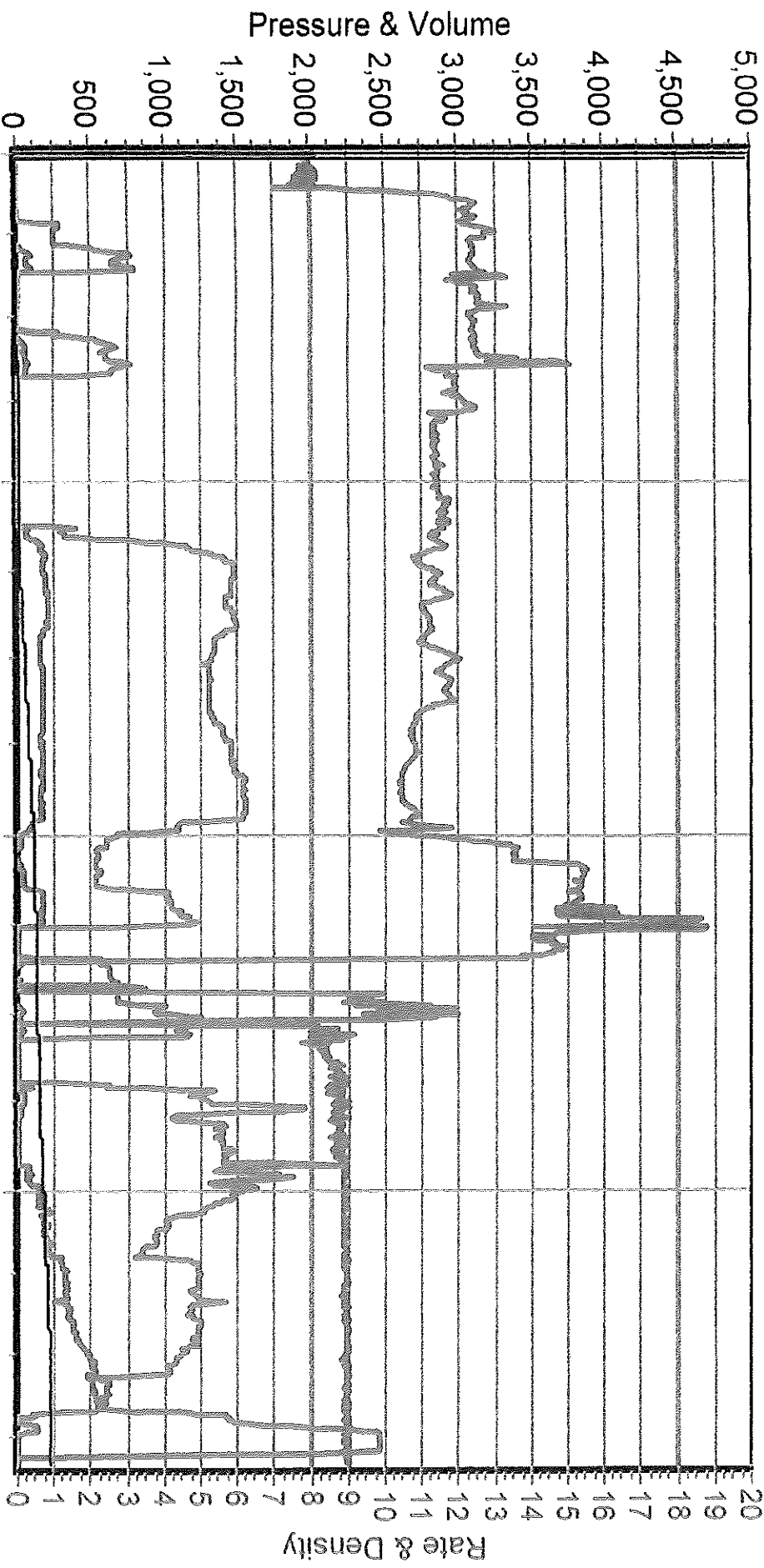
**COMPANY REPRESENTATIVE:** \_\_\_\_\_ **CEMENTER:** **KIRBY HARPER**

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
1940					8/5	3	PLUG RAT AND MOUSE W/50 SK LEAD
1957		200			114	6	MIX 200 SK LEAD @ 10.8 PPG
2014		50			14	3	MIX 50 SK TAIL @ 14.8 PPG
2019							SHUT DOWN -- DROP PLUG -- CLEAN LINES
2028		200			0	5	DISPLACE WITH WATER
2047		500			65	2.5	SLOW RATE
2050		500-2500			75		BUMP PLUG -- CLOSE TOOL
2051		2500-0					RELEASE PRESSURE -- TOOL CLOSED
					20		CIRCULATE CEMENT TO THE PIT



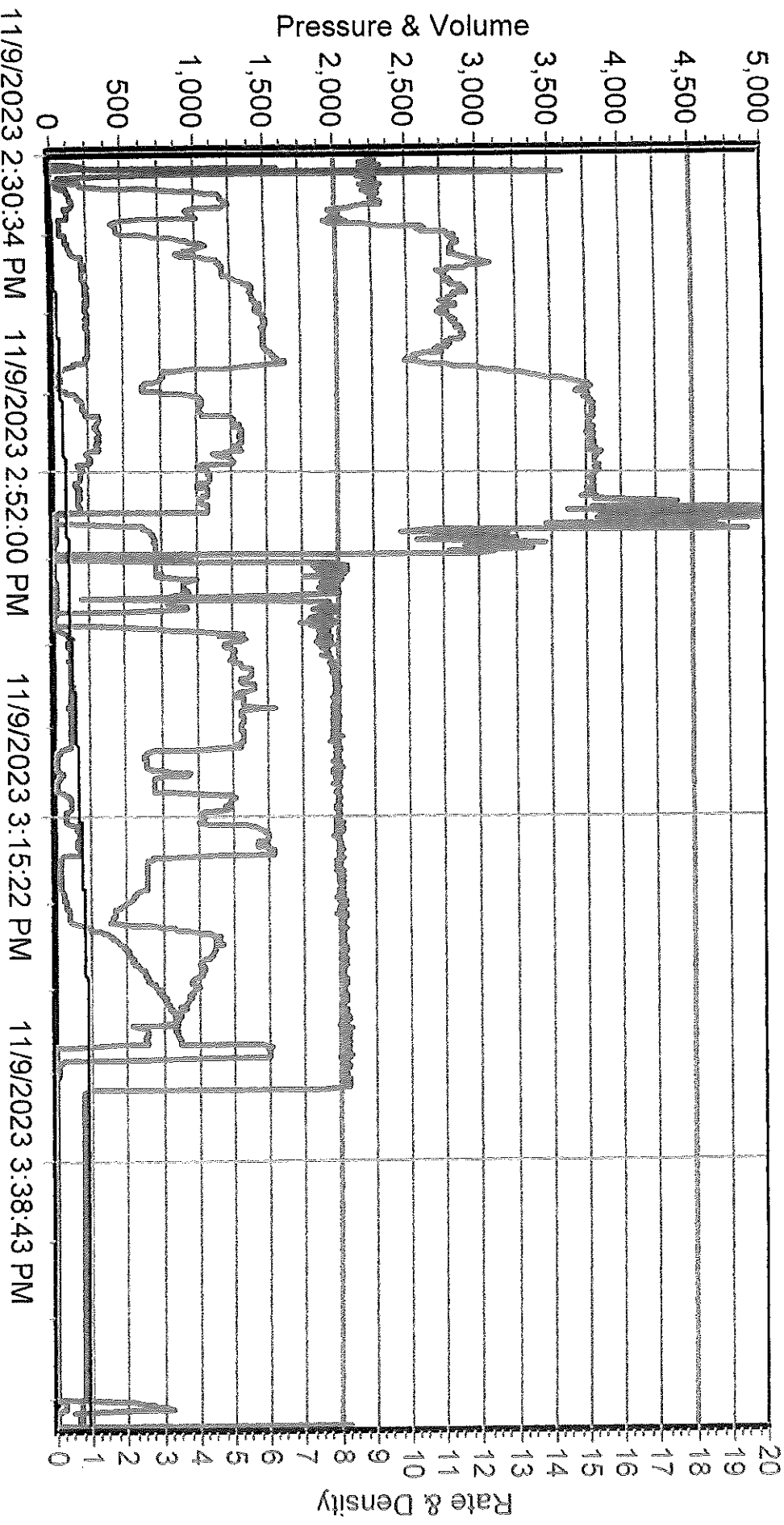
BEREXCO INC  
 RAMSEY UNIT 6-14  
 5.5" LONGSTRING -- TOP STAGE  
 11/09/2023

— Pressure 1 — Density — Total Rate — Stage Vol.



11/9/2023 7:27:01 PM 11/9/2023 7:46:33 PM 11/9/2023 8:07:50 PM 11/9/2023 8:29:06 PM

BEREXCO INC  
 RAMSEY UNIT #6-14  
 5.5" LONGSTRING -- BOTTOM STAGE  
 11/09/2023



# SUNBURST CONSULTING



A G E O L O G Y S E R V I C E

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

Well Name: Ramsey Unit #6-14  
Well Id: 15-055-22594  
Location: W/2 E/2 NW NW Sec. 14, T23S-R32W Finney County, Kansas  
License Number: 34318  
Spud Date: 31 OCT 23  
Surface Coordinates: 660' FNL & 860' FWL  
Lat 38.059803887, Long -101.026093798  
Region: Hugoton Embayment  
Drilling Completed: 8 NOV 23  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2936' K.B. Elevation (ft): 2947'  
Logged Interval (ft): 3600' To: 4900' Total Depth (ft): 4900'  
Formation: DOUGLAS thru ST. LOUIS  
Type of Drilling Fluid: Freshwater Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

Company: BEREXCO, LLC  
Address: 2020 North Bramblewood Drive  
Wichita, Kansas 67206 1094

## GEOLOGIST

Name: Peter Vollmer WPG #3369  
Company: Sunburst Consulting, Inc.  
Address: 1645 Avenue D Suite E  
Billings, Montana 59102  
406-259-4124

## SURVEYS

## DSTs

## Comments

### ROCK TYPES

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

- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt

- Sh red-brown
- Sh green
- Sh gray-red
- Sh dk-gray
- Sh gray
- Sh blk-brn
- Shale

- Shcol
- Shgy
- Sltst
- Ss
- Till
- Sltst gy
- Sh orgn

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### STRINGER

- Lsstrg
- Anhy
- Arg
- Bent
- Coal

- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy
- Sh orgn

- Sltst gy
- Sh orgn
- Lsstrg

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

#### OIL SHOW

- Even
- Spotted
- Ques

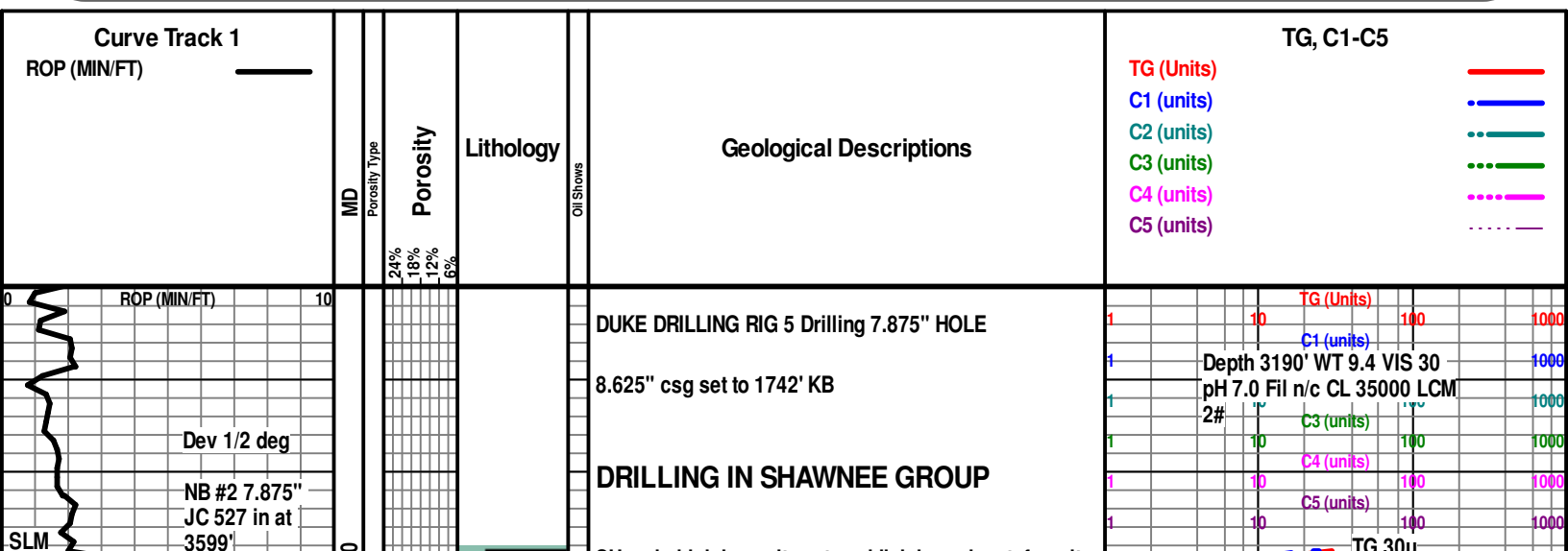
- Dead

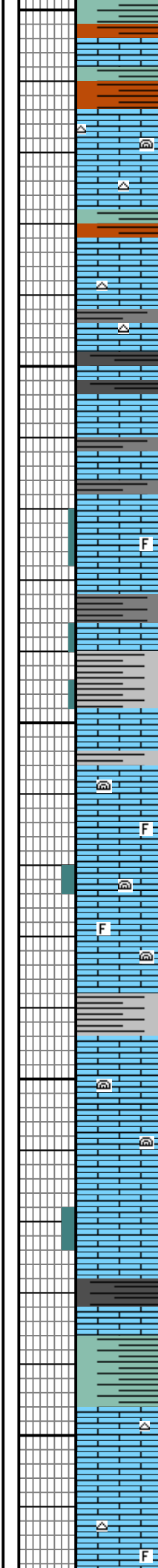
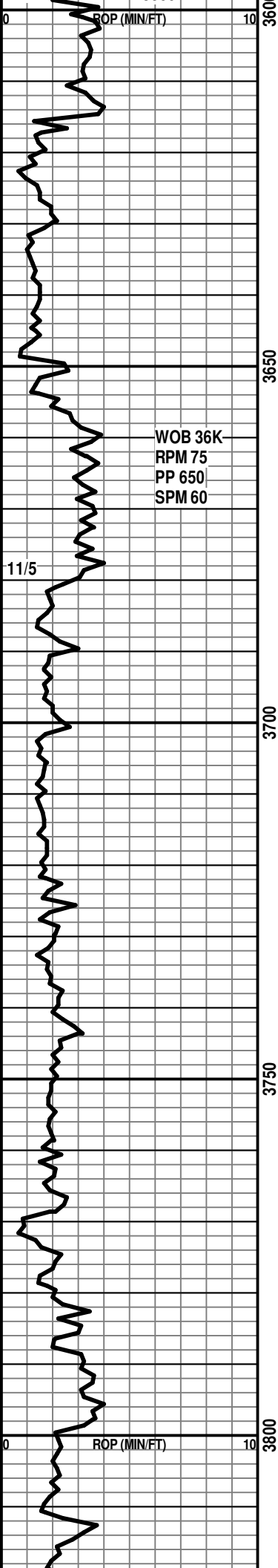
#### INTERVAL

- Dst
- Dst

#### EVENT

- Rft
- Sidewall





SH: pale bluish gy - lt gy, tr reddish brn, sl mot, frm ppty, sb wxy, v sl calc

LS: lt gy - lt tn, hd, crpxln, occ sdy, lt orng cht, intbdd lt gy SH, tt, no show

LS: v lt gy - lt tan, frm - hd, crpxln, occ packst, abnt fos, tr blk Algal specs, tt, no show

LS: lt tn - wh -crm, hd, crpxln, fos frag, tt, pale yel mnrl flr, no show. SH: dk gy, frm, blk, calc

SH: blk - v dk gy, frm, blk, sl carb

LS: lt gy - lt tn, hd, crpxln, occ sdy, sl arg, fos frag (Brac), tr lt gy SH, tr smokey gy Cht, tt, pale yel mnrl flr, no show

SH: lt gy - lt bluish gy, sft - frm, sb blk, sl calc, dull luster

LS: v lt gy with dk gy stn, frm - hd, crpxln, occ fos frag (Brac, Fus), tr vuggy por, no shows

SH: lt gy - lt bluish gy, sft - frm, sb blk, sl calc, dull luster

LS: lt tan - lt gy, hd - frm, crpxln - micxln, fos (Fus), chlky tex, tt - occ tr vuggy por, yel mnrl flr, tr lt gy sft Sh, no show

LS: v lt tn - wh, hd - frm, crpxln - micxln, fos frag (Brac), tr Algal mat, pred chlky tex, tt, mnrl flr, no show.

SH: lt gy, frm, ppty, non calc

LS: lt tn - v lt brn, hd - frm, crpxln - micxln, fos frag (Brac), abnt Algal/carb mat, pred chlky tex, tt, mnrl flr, no show.

LS: wh - v lt tan, frm -hd, crpxln - vf xln, v chlky tex, tt - tr intxln por, no shows

**HEEBNER 3777' (Logs -8xx')**  
SH: gysh blk - blk, frm - brit, fis, n-sl calc, carb, no flr, v wk pale grn resd cut

**BASE HEEBNER 3781' (Logs -834')**  
SH: pale bluish gy - grayish green, sft - frm, sb blk - ppty, n calc, sbwxy, clayey

**TORONTO 3794' (Logs -847')**

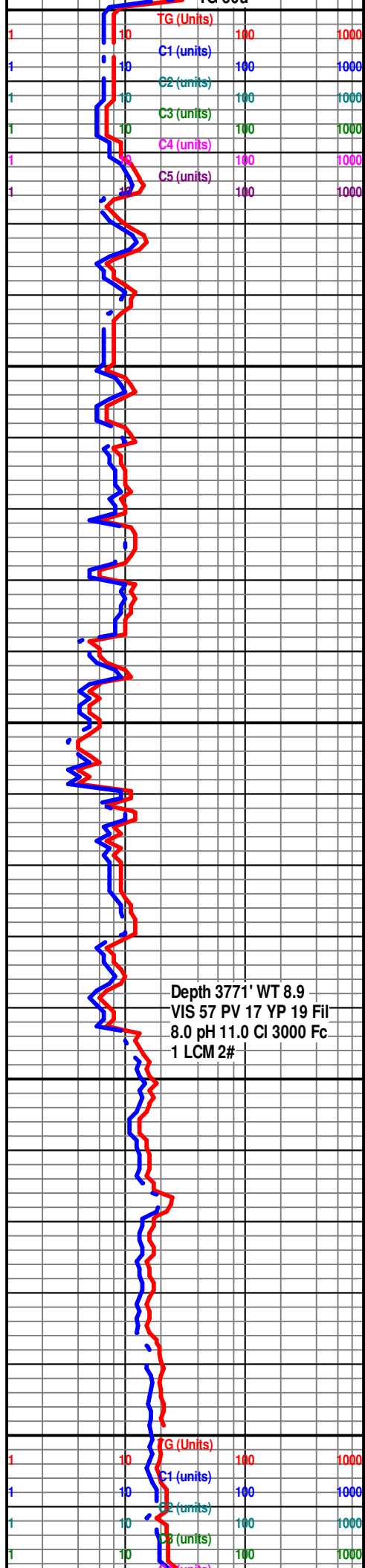
LS: lt gy - lt tan, hd - brit, crp - micxln, tr calc, occ grty tex, occ fos frag, tr brn Cht, tt, lt yel mnrl flr, no show

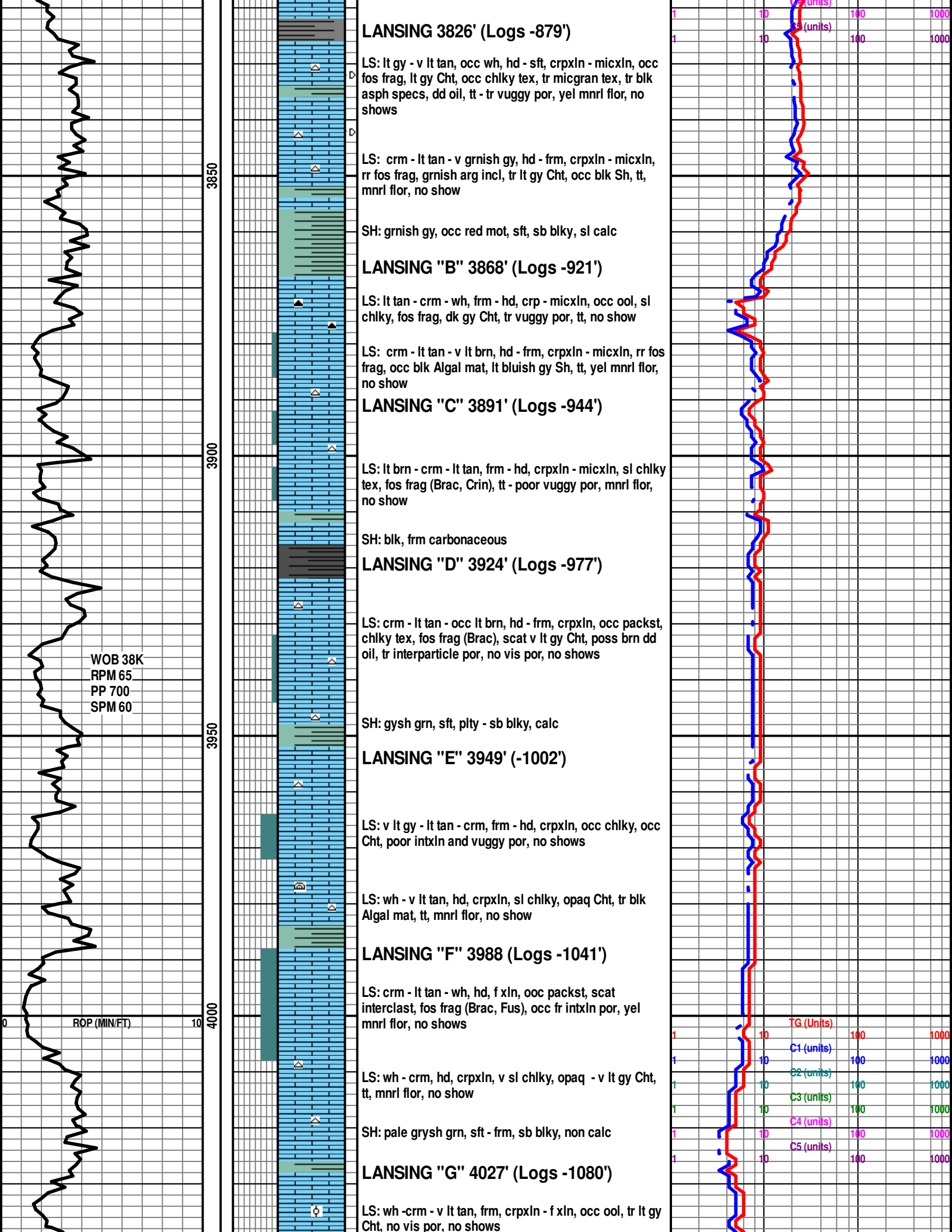
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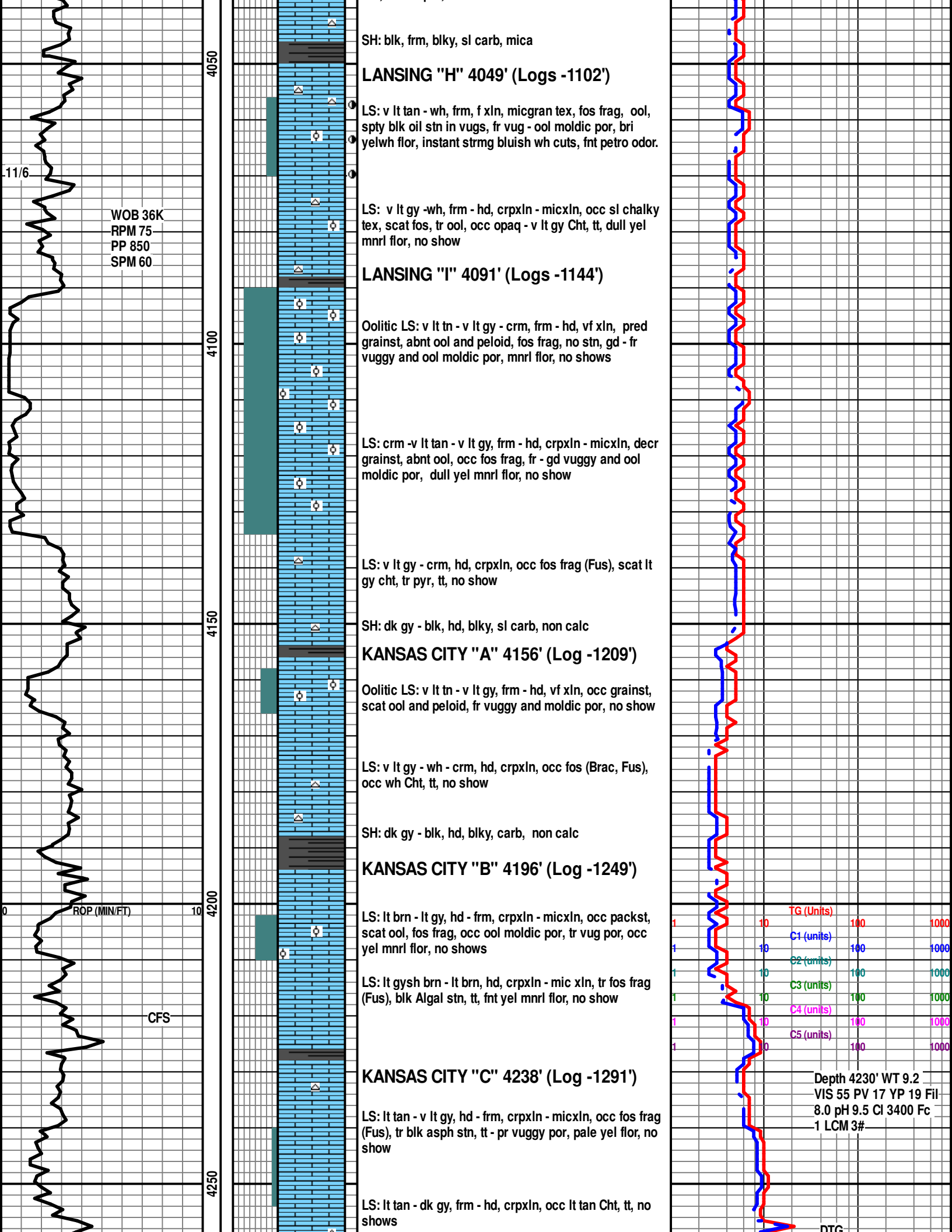
WOB 36K  
RPM 75  
PP 650  
SPM 60

11/5

Depth 3771' WT 8.9  
VIS 57 PV 17 YP 19 Fil  
8.0 pH 11.0 Cl 3000 Fc  
1 LCM 2#







WOB 36K  
RPM 75  
PP 850  
SPM 60

4050  
4100  
4150  
4200  
4250

SH: blk, frm, blk, sl carb, mica

**LANSING "H" 4049' (Logs -1102')**

LS: v lt tan - wh, frm, f xln, micgran tex, fos frag, ool, spty blk oil stn in vugs, fr vug - ool moldic por, bri yelwh flor, instant strmg bluish wh cuts, fnt petro odor.

LS: v lt gy - wh, frm - hd, crpxln - micxln, occ sl chalky tex, scat fos, tr ool, occ opa - v lt gy Cht, tt, dull yel mnrl flor, no show

**LANSING "I" 4091' (Logs -1144')**

Oolitic LS: v lt tn - v lt gy - crm, frm - hd, vf xln, pred grainst, abnt ool and peloid, fos frag, no stn, gd - fr vuggy and ool moldic por, mnrl flor, no shows

LS: crm - v lt tan - v lt gy, frm - hd, crpxln - micxln, decr grainst, abnt ool, occ fos frag, fr - gd vuggy and ool moldic por, dull yel mnrl flor, no show

LS: v lt gy - crm, hd, crpxln, occ fos frag (Fus), scat lt gy cht, tr pyr, tt, no show

SH: dk gy - blk, hd, blk, sl carb, non calc

**KANSAS CITY "A" 4156' (Log -1209')**

Oolitic LS: v lt tn - v lt gy, frm - hd, vf xln, occ grainst, scat ool and peloid, fr vuggy and moldic por, no show

LS: v lt gy - wh - crm, hd, crpxln, occ fos (Brac, Fus), occ wh Cht, tt, no show

SH: dk gy - blk, hd, blk, carb, non calc

**KANSAS CITY "B" 4196' (Log -1249')**

LS: lt brn - lt gy, hd - frm, crpxln - micxln, occ packst, scat ool, fos frag, occ ool moldic por, tr vug por, occ yel mnrl flor, no shows

LS: lt gysh brn - lt brn, hd, crpxln - mic xln, tr fos frag (Fus), blk Algal stn, tt, fnt yel mnrl flor, no show

**KANSAS CITY "C" 4238' (Log -1291')**

LS: lt tan - v lt gy, hd - frm, crpxln - micxln, occ fos frag (Fus), tr blk asph stn, tt - pr vuggy por, pale yel flor, no show

LS: lt tan - dk gy, frm - hd, crpxln, occ lt tan Cht, tt, no shows

TG (Units)	100	1000
C1 (units)	100	1000
C2 (units)	100	1000
C3 (units)	100	1000
C4 (units)	100	1000
C5 (units)	100	1000

Depth 4230' WT 9.2  
VIS 55 PV 17 YP 19 Fil  
8.0 pH 9.5 Cl 3400 Fc  
1 LCM 3#

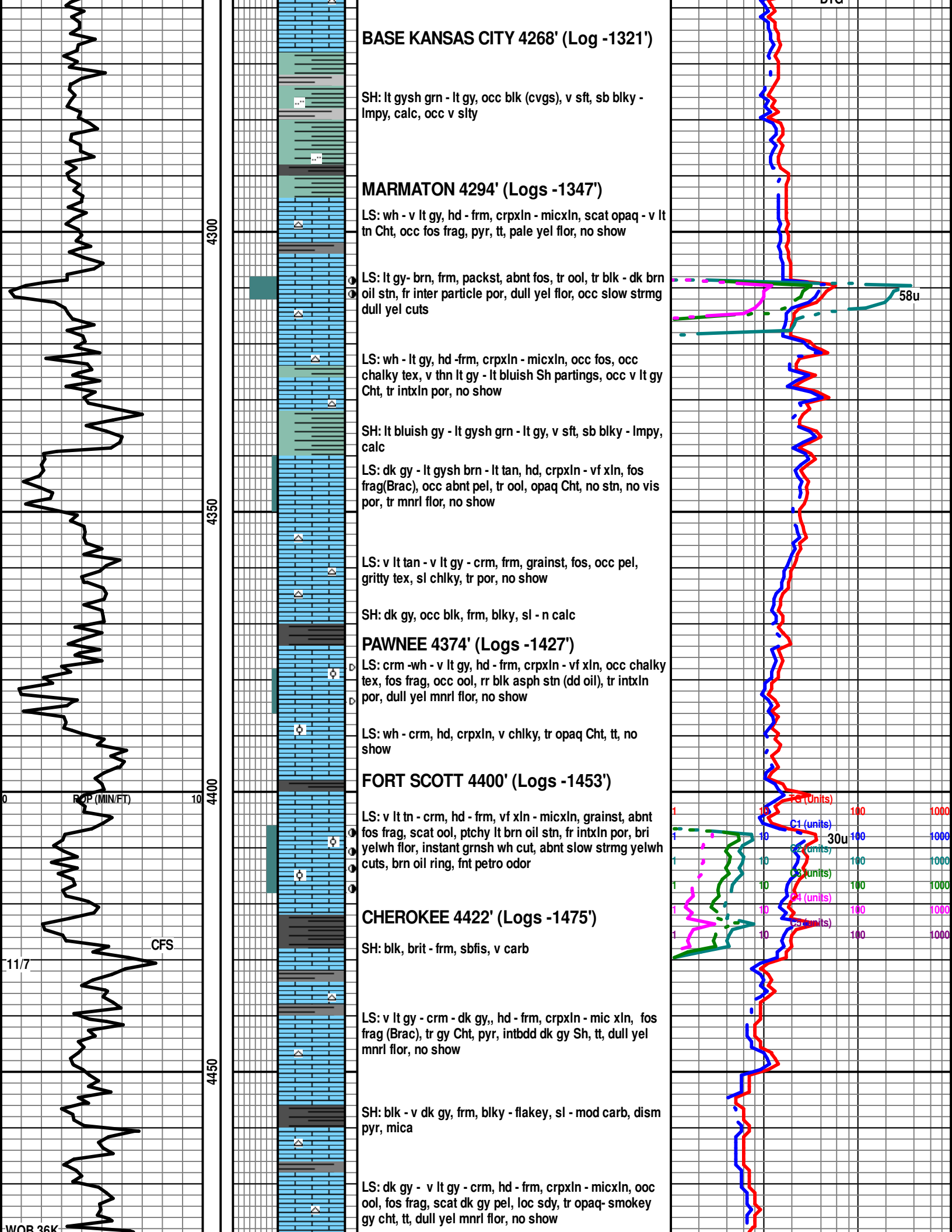
DTC

11/6

ROP (MIN/FT)

CFS







RPM 75  
PP 900  
SPM 60

ROP (MIN/FT)

4500

4550

4600

4650

SH: gysh grn - bluish grn -dk gy, frm sb blk, non calc, occ sd grs

LS: dk gy - lt gy, hd - frm, crpxln - f xln, fos frag (Brac), tr opa - gy cht, occ chlky, intbdd dk gy Sh, tt, dull yel mnrl flr, no show

**ATOKA 4518' (-1571')**

LS: v lt brn, frm, mic - f xln, occ vf micgran tex, fos frag, tr lt brn oil stn, lt brn Cht, tr por, bri yelwh flr, fr pale grn diffuse cuts, weak petro odor

LS: lt gy - brnsh gy - dk gy, occ mot, hd, crpxln, abnt lt gy - brn Cht, occ sdy, calc, fos frag, pyr, carb mat, tt, no show

SS: brn, v hd, f gr, w rnd w srt, hvy sil cmt, v tt, no show

SH: blk, frm, splntry, non calc, sl carb

LS: gysh brn - lt gy, dk gy mot, hd - frm, crpxln - micxln, abnt smokey gy -dk brn Cht, tr sl Sdy, fos frag, tt, pale yel flr, no show. intbdd SH: blk, frm, blk - fis, non calc, sl carb

SH: blk, brit, sb fis, carb, pyr

LS: dk gy - blk, v hd, crpxln, sil, fos frag, dk gy - opa Cht, intbdd blk Sh, tt, no shows

**MORROW 4610' (-1661')**

LS: lt tan, hd, crpxln - micxln, fos frag, tr Glau, tt, no shows

SH: lt gysh grn - lt gy, sft - sl frm, blk, non calc

SS: v lt gy, hd - fri, vf gr, rnd w srt, Glau, sil cmt, blk dd oil specks, tr por, no flr, wk pale grn resd cut

**ST GENEVIEVE 4648' (Logs -1701')**

LS: lt gy, hd, crpxln, sandy, tt, no show

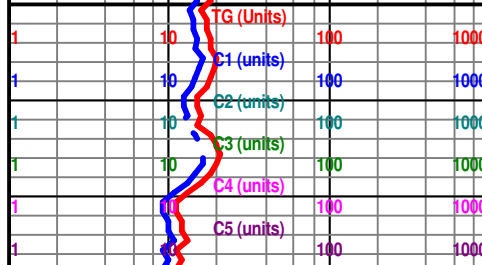
LS: v lt gy - lt tan, hd, crp xln, v sdy/slty ip, occ micgran tex, fos (Fus), scat dk brn - blk oil stn, no vis por, bri yelwh flr, instant blooming grnsh wh cuts, fnt petro odor

LS: wh - crm, frm - hd, micxln, occ sdy, chlky tex, Glau, tt, no shows, abnt blk Sh cvgs

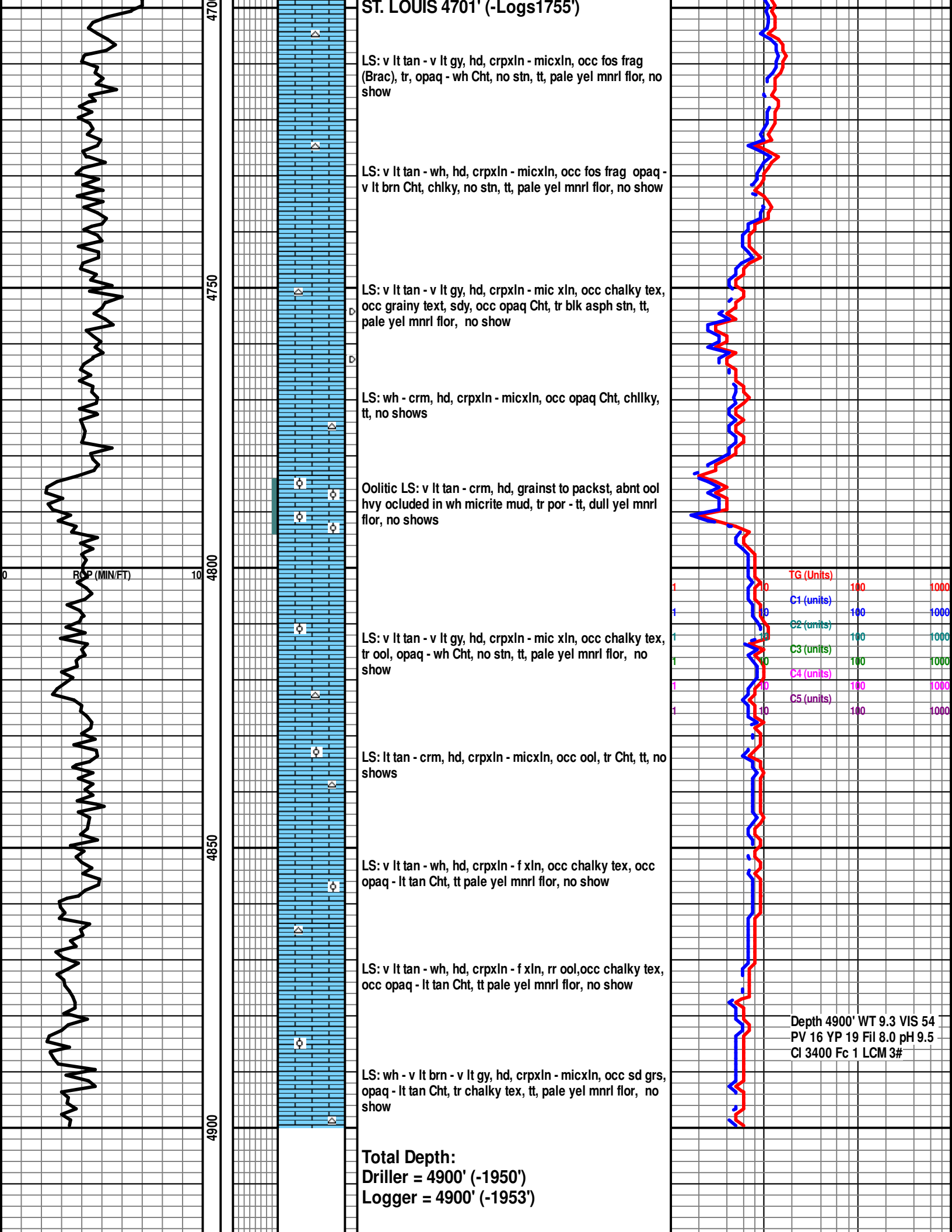
LS: wh - v lt gy - crm, frm - hd, vf xln, vf micgran tex, scat fos frag, occ chlky, v sl sdy, Glau, no vis por, yel mnrl flr, no shows

SH: gysh grn, frm, fis - splntry, non calc dull luster

Depth 4547' WT 9.2 VIS  
60 PV 18 YP 22 Fil 8.0  
pH 9.5 Cl 3500 Fc 1  
LCM 3#



# ST. LOUIS 4701' (-Logs1755')



LS: v lt tan - v lt gy, hd, crpxln - micxln, occ fos frag (Brac), tr, opaq - wh Cht, no stn, tt, pale yel mnrl flor, no show

LS: v lt tan - wh, hd, crpxln - micxln, occ fos frag opaq - v lt brn Cht, chlky, no stn, tt, pale yel mnrl flor, no show

LS: v lt tan - v lt gy, hd, crpxln - mic xln, occ chalky tex, occ grainy text, sdy, occ opaq Cht, tr blk asph stn, tt, pale yel mnrl flor, no show

LS: wh - crm, hd, crpxln - micxln, occ opaq Cht, chlky, tt, no shows

Oolitic LS: v lt tan - crm, hd, grainst to packst, abnt ool hvy occluded in wh micrite mud, tr por - tt, dull yel mnrl flor, no shows

LS: v lt tan - v lt gy, hd, crpxln - mic xln, occ chalky tex, tr ool, opaq - wh Cht, no stn, tt, pale yel mnrl flor, no show

LS: lt tan - crm, hd, crpxln - micxln, occ ool, tr Cht, tt, no shows

LS: v lt tan - wh, hd, crpxln - f xln, occ chalky tex, occ opaq - lt tan Cht, tt pale yel mnrl flor, no show

LS: v lt tan - wh, hd, crpxln - f xln, rr ool, occ chalky tex, occ opaq - lt tan Cht, tt pale yel mnrl flor, no show

LS: wh - v lt brn - v lt gy, hd, crpxln - micxln, occ sd grs, opaq - lt tan Cht, tr chalky tex, tt, pale yel mnrl flor, no show

TG (Units)	100	1000
C1 (units)	100	1000
C2 (units)	100	1000
C3 (units)	100	1000
C4 (units)	100	1000
C5 (units)	100	1000

Depth 4900' WT 9.3 VIS 54  
 PV 16 YP 19 Fil 8.0 pH 9.5  
 CI 3400 Fc 1 LCM 3#

**Total Depth:**  
 Driller = 4900' (-1950')  
 Logger = 4900' (-1953')

