



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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1055062

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	DAVIS 1-33(SW)
Doc ID	1055062

All Electric Logs Run

DIL
CNL/CDL
MEL
BHCS

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	DAVIS 1-33(SW)
Doc ID	1055062

Tops

Name	Top	Datum
STOTLER	3540	-718
TARKIO	3602	-780
LANSING	4252	-1430
STARK	4588	-1766
MARMATON	4724	-1902
PAWNEE	4814	-1992
CHEROKEE	4860	-2038
MORROW SH	5030	-2208
MISS ST GEN	5140	-2318
MISS ST LOUIS	5202	-2380

Company	Falcon Exploration, Inc.	Lease Name	Davis (SW)	
Address	125 N. Market, Ste. 1252	Lease #	1-33	
CSZ	Wichita, KS 67202	Legal Desc	SW-SE-NE-SW	Job Ticket 2137
Attn.	Dave Williams	Section	33	Range 30W
		Township	27S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	
Comments	Legal Description Feet: 1500' FSL & 2000' FWL			

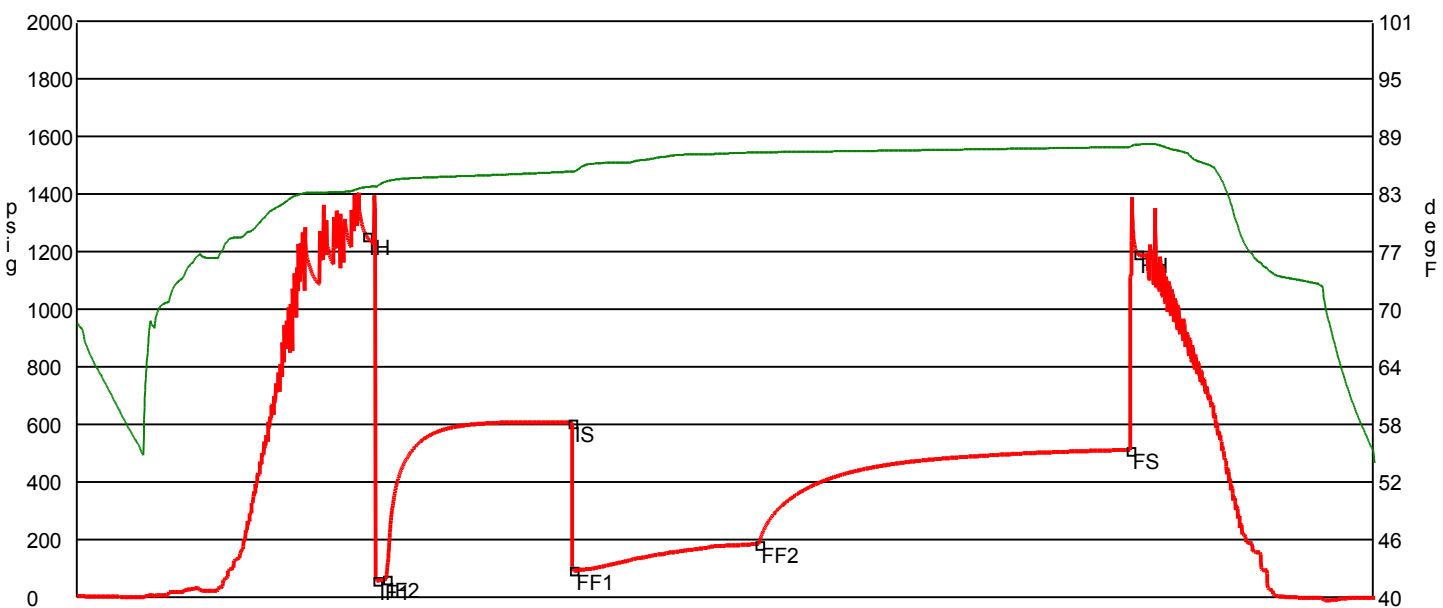
GENERAL INFORMATION

Test # 1	Test Date	1/22/2011	Chokes	3/4	Hole Size	7 7/8
Tester	Tim Venters		Top Recorder #	W1119		
Test Type	Conventional Bottom Hole Successful Test		Mid Recorder #	W1022		
			Bott Recorder #	13310		
# of Packers	2.0	Packer Size	6 3/4	Mileage	240	Approved By
				Standby Time	0	
Mud Type	Gel Chem			Extra Equipmnt	Jars & Safety joint	
Mud Weight	9.4	Viscosity	45.0	Time on Site	5:20 PM	
Filtrate	0	Chlorides	49500	Tool Picked Up	6:55 PM	
				Tool Layed Dwn	4:40 AM	
Drill Collar Len	337.0			Elevation	2799.00	Kelley Bushings 2812.00
Wght Pipe Len	0					
Formation	Chase Group		Start Date/Time	1/21/2011 6:18 PM		
Interval Top	2697.0	Bottom	2778.0	End Date/Time	1/22/2011 4:46 AM	
Anchor Len Below	81.0	Between	0			
Total Depth	2778.0					
Blow Type	Weak 1/2 inch blow at the start of the initial flow period, building to 4 inches . Weak 1/4 inch blow at the start of the final flow period, building, reaching the bottom of the bucket in 17 minutes. I bled line off at the 30 minute mark a nd it took 52 minutes to get back to bottom. It never did blow water out of the bucket. Times: 5, 90, 90, 180. On the recovery, the tool had a trace of oil i n it.					

RECOVERY

Feet	Description	Gas		Oil		Water		Mud	
170	Very slight water cut mud	0%	0ft	0%	0ft	7%	11.9ft	93%	158.1ft
120	Very heavy water cut mud	0%	0ft	0%	0ft	43%	51.6ft	57%	68.4ft
60	Very heavy mud cut water	0%	0ft	0%	0ft	57%	34.2ft	43%	25.8ft

DST Fluids **53000**



	Date	Time	Pressure	Temp	
IH	1/21/2011 8:37:10 PM	2.319444	1257.034	83.467	Initial Hydro-static
IF1	1/21/2011 8:42:00 PM	2.4	60.731	83.501	Initial Flow (1)
IF2	1/21/2011 8:46:50 PM	2.480556	65.778	84.055	Initial Flow (2)
IS	1/21/2011 10:16:50 PM	3.980556	607.579	85.109	Initial Shut-In
FF1	1/21/2011 10:17:30 PM	3.991667	95.546	85.081	Final Flow (1)
FF2	1/21/2011 11:47:20 PM	5.488889	185.667	87.155	Final Flow (2)
FS	1/22/2011 2:47:20 AM	8.488889	512.632	87.712	Final Shut-In
FH	1/22/2011 2:51:10 AM	8.552778	1193.298	87.966	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	Davis (SW)	
Address	125 N. Market, Ste. 1252	Lease #	1-33	
CSZ	Wichita, KS 67202	Legal Desc	SW-SE-NE-SW	Job Ticket 2137
Attn.	Dave Williams	Section	33	Range 30W
		Township	27S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

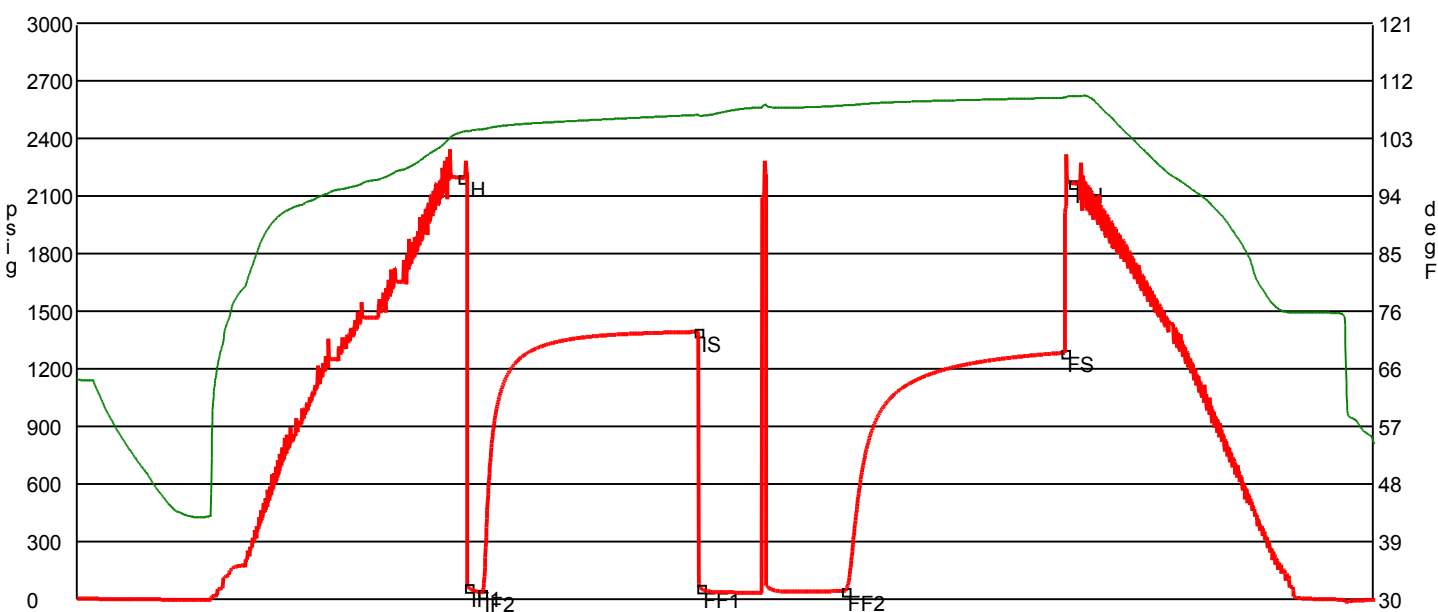
Comments **Legal Description Feet: 1500' FSL & 2000' FWL**

GENERAL INFORMATION

Test # 2	Test Date 1/26/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
# of Packers 2.0	Packer Size 6 3/4	Bott Recorder # 13310	
Mud Type Gel Chem		Mileage 240	Approved By
Mud Weight 9.3	Viscosity 61.0	Standby Time 34	
Filtrate 7.6	Chlorides 1900	Extra Equipmnt Jars & Safety joint	
Drill Collar Len 337.0		Time on Site 2:10 AM	
Wght Pipe Len 0		Tool Picked Up 5:40 AM	
		Tool Layed Dwn 1:45 PM	
Formation Swope		Elevation 2799.00	Kelley Bushings 2812.00
Interval Top 4586.0	Bottom 4613.0	Start Date/Time 1/26/2011 4:54 AM	
Anchor Len Below 27.0	Between 0	End Date/Time 1/26/2011 1:47 PM	
Total Depth 4613.0			
Blow Type Weak surface blow at the start of the intial flow period, building to 1/4 inch. Very weak surface blow at the start of the final flow period. After 25 minutes , we flushed the tool and got a 1/4 inch blow that lasted the rest of the period . Times: 5, 90, 60, 90. The tool had mud with a trace of oil.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
30	Mud	0% 0ft	0% 0ft	0% 0ft	100% 30ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	1/26/2011 7:31:10 AM	2.619444	2196.099	103.835	Initial Hydro-static
IF1	1/26/2011 7:33:50 AM	2.663889	64.65	103.935	Initial Flow (1)
IF2	1/26/2011 7:39:20 AM	2.755556	36.437	104.289	Initial Flow (2)
IS	1/26/2011 9:08:30 AM	4.241667	1393.89	106.562	Initial Shut-In
FF1	1/26/2011 9:09:20 AM	4.255556	60.998	106.409	Final Flow (1)
FF2	1/26/2011 10:08:50 AM	5.247222	44.33	108.056	Final Flow (2)
FS	1/26/2011 11:39:20 AM	6.755556	1285.344	109.277	Final Shut-In
FH	1/26/2011 11:42:20 AM	6.805556	2168.176	109.529	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	Davis (SW)	
Address	125 N. Market, Ste. 1252	Lease #	1-33	
CSZ	Wichita, KS 67202	Legal Desc	SW-SE-NE-SW	Job Ticket 2137
Attn.	Dave Williams	Section	33	Range 30W
		Township	27S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

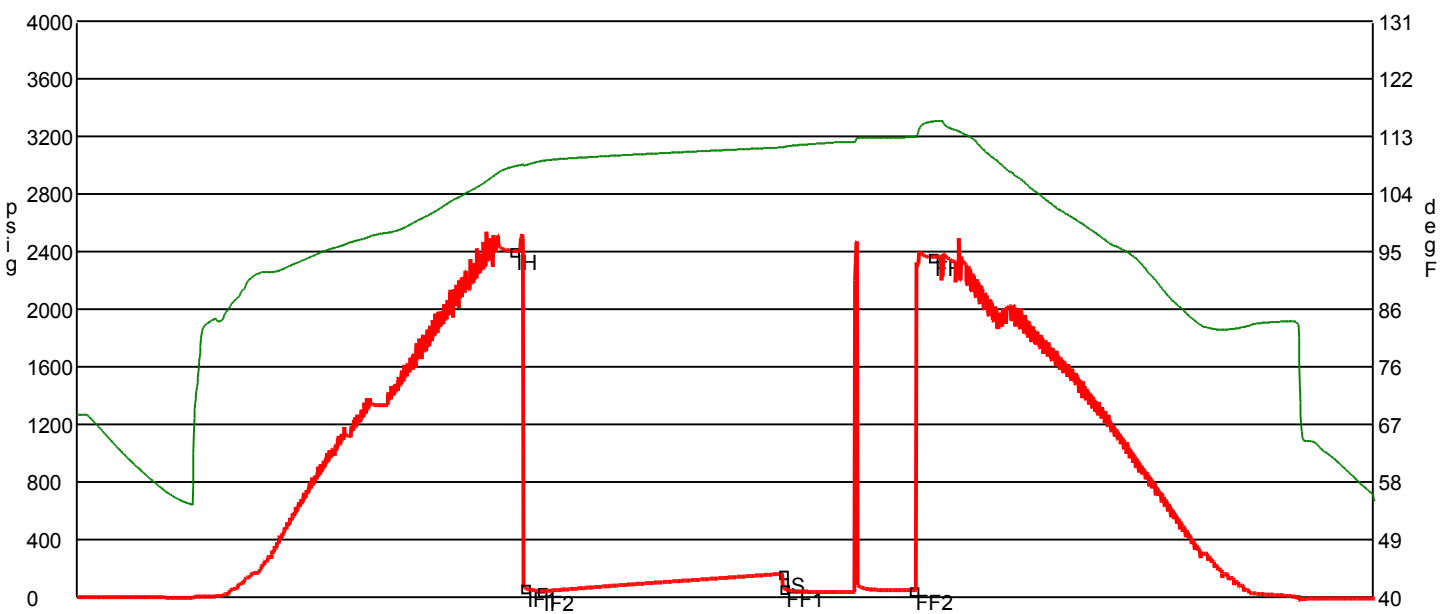
Comments **Legal Description Feet: 1500' FSL & 2000' FWL**

GENERAL INFORMATION

Test # 3	Test Date 1/29/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
# of Packers 2.0	Packer Size 6 3/4	Bott Recorder # 13310	
Mud Type Gel Chem		Mileage 88	Approved By
Mud Weight 9.2	Viscosity 48.0	Standby Time 0	
Filtrate 7.2	Chlorides 1300	Extra Equipmnt Jars & Safety joint	
Drill Collar Len 337.0		Time on Site 7:00 PM	
Wght Pipe Len 0		Tool Picked Up 9:50 PM	
		Tool Layed Dwn 5:00 AM	
Formation Morrow-St. Gen		Elevation 2799.00	Kelley Bushings 2812.00
Interval Top 5072.0	Bottom 5165.0	Start Date/Time 1/28/2011 9:02 PM	
Anchor Len Below 93.0	Between 0	End Date/Time 1/29/2011 5:04 AM	
Total Depth 5165.0			
Blow Type Weak 1/4 inch blow at the start of the initial flow period, building to 1/2 inch . Very weak surface blow at the start of the final flow period, lasting about 2 0-25 minutes. We flushed the tool 27 minutes into the period and got a 1/4 inch blow that lasted the rest of the period. Times: 5, 90, 48, 0.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
60	Mud	0% 0ft	0% 0ft	0% 0ft	100% 60ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	1/28/2011 11:43:30 PM	2.691667	2407.414	108.076	Initial Hydro-static
IF1	1/28/2011 11:47:30 PM	2.758333	70.623	108.231	Initial Flow (1)
IF2	1/28/2011 11:53:40 PM	2.861111	45.792	108.94	Initial Flow (2)
IS	1/29/2011 1:23:40 AM	4.361111	164.786	111.112	Initial Shut-In
FF1	1/29/2011 1:24:10 AM	4.369444	65.46	111.136	Final Flow (1)
FF2	1/29/2011 2:12:20 AM	5.172222	48.827	112.719	Final Flow (2)
FH	1/29/2011 2:19:20 AM	5.288889	2368.467	115.179	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	Davis (SW)	
Address	125 N. Market, Ste. 1252	Lease #	1-33	
CSZ	Wichita, KS 67202	Legal Desc	SW-SE-NE-SW	Job Ticket 2137
Attn.	Dave Williams	Section	33	Range 30W
		Township	27S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

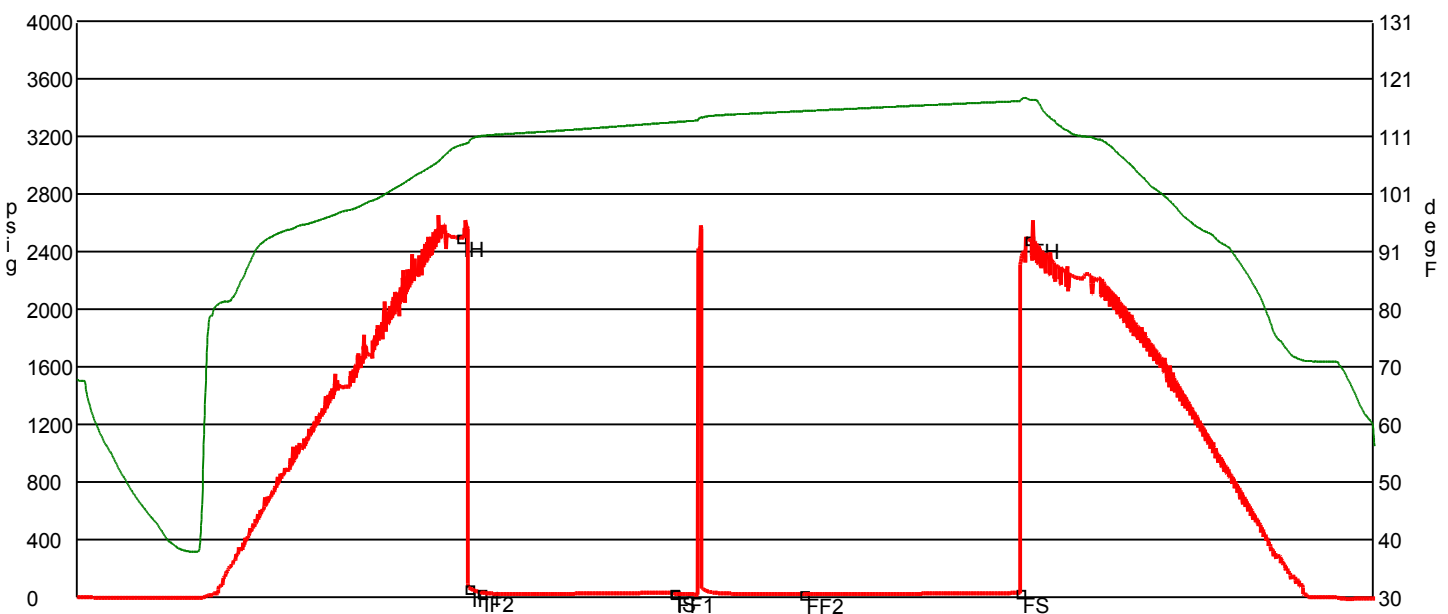
Comments **Legal Description Feet: 1500' FSL & 2000' FWL**

GENERAL INFORMATION

Test # 4	Test Date 1/30/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
		Bott Recorder # 13310	
# of Packers 2.0	Packer Size 6 3/4	Mileage 88	Approved By
Mud Type Gel Chem		Standby Time 0	
Mud Weight 9.2	Viscosity 58.0	Extra Equipmnt Jars & Safety joint	
Filtrate 6.4	Chlorides 1400	Time on Site 12:05 AM	
		Tool Picked Up 2:00 AM	
		Tool Layed Dwn 11:10 AM	
Drill Collar Len 337.0		Elevation 2799.00	Kelley Bushings 2812.00
Wght Pipe Len 0			
Formation St. Louis "B"		Start Date/Time 1/30/2011 1:12 AM	
Interval Top 5250.0	Bottom 5304.0	End Date/Time 1/30/2011 11:14 AM	
Anchor Len Below 54.0	Between 0		
Total Depth 5304.0			
Blow Type Very weak surface blow throughout the initial flow period. Very weak surface blow at the start of the final flow period lasting about 5-10 minutes. We flushed the tool after 10 minutes and just got a very weak surface blow that lasted about 10-15 minutes. Times: 5, 90, 60, 101.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
5	Mud	0% 0ft	0% 0ft	0% 0ft	100% 5ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	1/30/2011 4:09:10 AM	2.952778	2500.305	109.312	Initial Hydro-static
IF1	1/30/2011 4:13:00 AM	3.016667	66.285	109.784	Initial Flow (1)
IF2	1/30/2011 4:18:40 AM	3.111111	35.312	110.914	Initial Flow (2)
IS	1/30/2011 5:48:00 AM	4.6	33.392	113.328	Initial Shut-In
FF1	1/30/2011 5:48:30 AM	4.608333	26.971	113.34	Final Flow (1)
FF2	1/30/2011 6:48:30 AM	5.608333	23.171	115.288	Final Flow (2)
FS	1/30/2011 8:29:10 AM	7.286111	31.438	117.043	Final Shut-In
FH	1/30/2011 8:33:20 AM	7.355556	2484.306	117.34	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

ALLIED CEMENTING CO., LLC. 30872

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Libera K-S.

DATE <u>1.19.11</u>	SEC. <u>33</u>	TWP. <u>27</u>	RANGE <u>30w</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30pm</u>	JOB FINISH <u>6:30pm</u>
LEASE <u>Davis</u>		WELL # <u>1-33</u>		LOCATION <u>Vec Coopland K-S.</u>		COUNTY <u>Craw</u>	STATE <u>K-S.</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Starling

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>1881</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>1881.31</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42.26</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>117.2</u>	

OWNER

CEMENT

AMOUNT ORDERED 675^{SK} 65/35/16.ige
3% CC .25 pps Flo-seal
150^{SK} Class A 3% CC 2% gel

COMMON <u>150</u>	@ <u>15.45</u>	<u>2317.50</u>
POZMIX	@	
GEL <u>3</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE <u>27</u>	@ <u>58.20</u>	<u>1571.40</u>
ASC	@	
<u>Litcweight + 675</u>	@ <u>14.80</u>	<u>9990.00</u>
<u>Flo-seal 168</u>	@ <u>2.50</u>	<u>420.00</u>
<u>Suger 50</u>	@ <u>1.27</u>	<u>63.50</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>897</u>	@ <u>2.40</u>	<u>2152.80</u>
MILEAGE		<u>4485.00</u>
TOTAL		<u>21062.10</u>

EQUIPMENT

PUMP TRUCK # <u>372</u>	CEMENTER <u>Kenny</u>
	HELPER <u>Cesar</u>
BULK TRUCK # <u>472-468</u>	DRIVER <u>Lenny + Jose</u>
BULK TRUCK # <u>457-251</u>	DRIVER <u>Alex</u>

REMARKS:

THANK you!!!

CHARGE TO: Falcon Exp.

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Leon Kikw

SIGNATURE [Signature]

TOTAL 2474.00

SERVICE

DEPTH OF JOB	<u>1881ft</u>
PUMP TRUCK CHARGE	<u>2011.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>50</u>	@ <u>7.00</u> <u>350.00</u>
MANIFOLD <u>1</u>	@ <u>113.00</u> <u>113.00</u>
	@
	@

PLUG & FLOAT EQUIPMENT

<u>Guide Shoe</u>	@ <u>282.00</u>	<u>282.00</u>
<u>Inset + Float</u>	@ <u>377.00</u>	<u>377.00</u>
<u>Centralizer</u>	@ <u>62.00</u>	<u>248.00</u>
<u>Basket</u>	@ <u>248.00</u>	<u>248.00</u>
<u>Rubber Plug</u>	@ <u>113.00</u>	<u>113.00</u>
TOTAL		<u>1268.00</u>

SALES TAX (If Any) _____

TOTAL CHARGES [Crossed out]

DISCOUNT [Crossed out] IF PAID IN 30 DAYS

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 09, 2011

MICHEAL S MITCHELL
Falcon Exploration, Inc.
125 N MARKET STE 1252
WICHITA, KS 67202-1719

Re: ACO1
API 15-069-20336-00-00
DAVIS 1-33(SW)
SW/4 Sec.33-27S-30W
Gray County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
MICHEAL S MITCHELL



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

Well Name: Davis #1-33 (SW)
Location: Sw-Se-Ne-Sw Sec. 33 - T. 27 - 30 W.
License Number: 5316
Spud Date: 1/17/11
Surface Coordinates: 1500" FSL - 2000' FWL

Region:
Drilling Completed: 1/31/11

Bottom Hole Coordinates:

Ground Elevation (ft): 2809' **K.B. Elevation (ft):** 2821'
Logged Interval (ft): **To:** **Total Depth (ft):** 5456'
Formation:
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL

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

OPERATOR

Company: FALCON EXPLORATION, INC
Address: 125 N. MARKET, STE. #1252
WICHITA, KANSAS 67202-1719

GEOLOGIST

Name: DAVID P. WILLIAMS
Company: DW ENERGY, INC.
Address: 225 N. MARKET STREET, STE. #230
WICHITA, KANSAS 67202

CASING SET

**8 5/8" 23# SURFACE CASING SET @ 1881'. CEMENTED WITH SX CEMENT DID
CIRCULATE.**

DSTs

DST #1 2697'-2778' Times: 5"-90"-90"-180"

Blow: IF Weak 1/2" Surface Blow Inc to 4"; FF Weak 1/4" Blow Inc to BOB/17". Bled Off @ 30". Regained BOB//52" into FF.

Recovery: 350' TF Comprised of: 170' VSWCM; 120' VHWCM; 60' VHMCW .

Pressures: IH 1257#: FH 1193#; IF 61-66#; FF 96-186#;
 ISIP = 608#; FSIP 513#;
 Chlorides: 53,000 Ppm; Temp = 88 Degrees F.

DST #2 4586'-4613' Times: 5"-90"-60"-90" ;

Blow: IF Weak 1/4" Surface Blow; FF Weak 1/4" Blow Flushed Tool @ 25". FF. 1/4" Blow Throughout FF.

Recovery: 30' Mud w/Tr. Oil On Top Of Tool.

Pressures: IH 2196#: FH 2168#; IF 65-36#; FF 61-44#; ISIP 1394#; FSIP 1285#; Temp = 110 Degrees F.

DST #3 5072'-5165'; Times: 5"-90"-48"-0".

Blow: IF Weak 1/4" Surface Blow; FF Weak 1/4" Blow. Flushed Tool @ 27". FF. 1/4" Blow; Pulled DST @ 48" on FF.

Recovery: 60' Mud.

Pressures: IH 2407#: FH 2369#; IF 71-46#; FF 66-49#;
 ISIP 165 #; FSIP None;
 Temp = 115 Degrees F.

DST #4 5250'-5304'; Times: 5"-90"-60"-101".


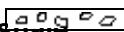

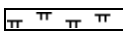







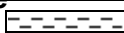

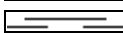


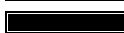
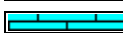
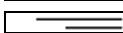

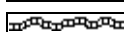


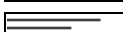
Blow: IF V. Weak 1/4" Surface Blow; fF V.Weak 1/4" Blow & Died. Flushed Tool @ 10". FF. V. Weak Blow & Died @ 10";

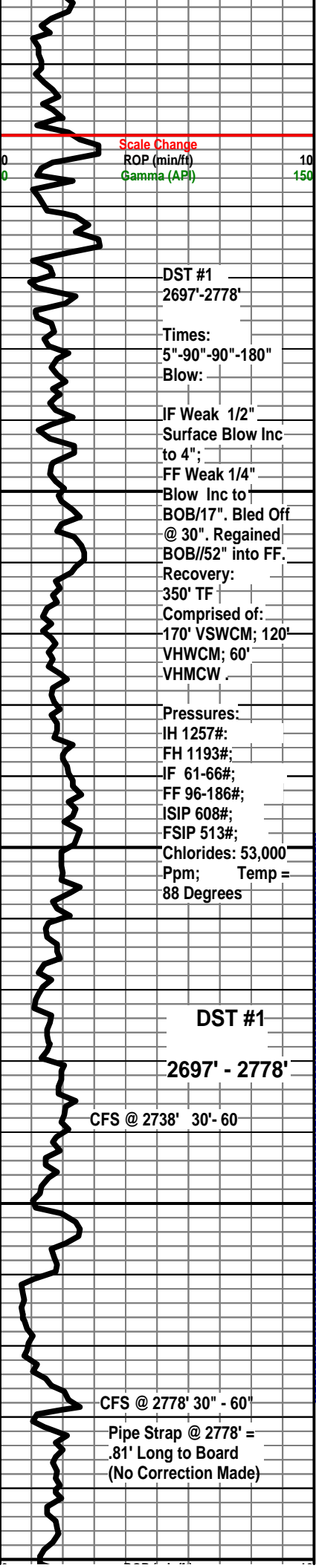
Recovery: 5' Mud.

Pressures: IH 2500#: FH 2484#; IF 66-36#; FF 27-23#;
 ISIP 35 #; FSIP 31; Temp = 117 Degrees F.

Comments

ROCK TYPES

	Black carb shale		Brec		Dol		Mrlst		Slst
	Green shale		Cht		Gyp		Salt		Ss
	Red shale		Clyst		Igne		Shale		Till
	Anhy		Coal		Lmst		Shcol		Gray shale
	Bent		Congl		Meta		Shgy		



Sh Red-Gry V Abd w/ Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Chase Group 2682' (+139)

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

30" CFS Dolo/Ls Wht FxIn Fair Pin-Pt IxIn Por (Few Pcs-V Small) Sh Abd AA Red-Gry Abd Anhy/Gyp No Odor No Stn Fo Flor NS

60" CFS Dolo/Ls Wht FxIn Fair Pin-Pt IxIn Por (Few Pcs-V Small) Sh Abd AA Red-Gry Abd Anhy/Gyp No Odor No Stn Fo Flor NS

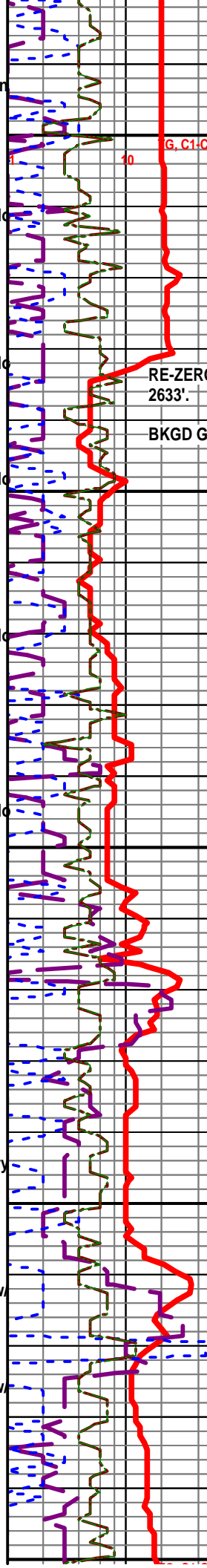
Dolo/Ls AA Wht FxIn Fair Pin-Pt IxIn Por (Few Pcs-V Small) Sh Abd AA Red-Gry Dec Anhy/Gyp No Odor No Stn Fo Flor NS

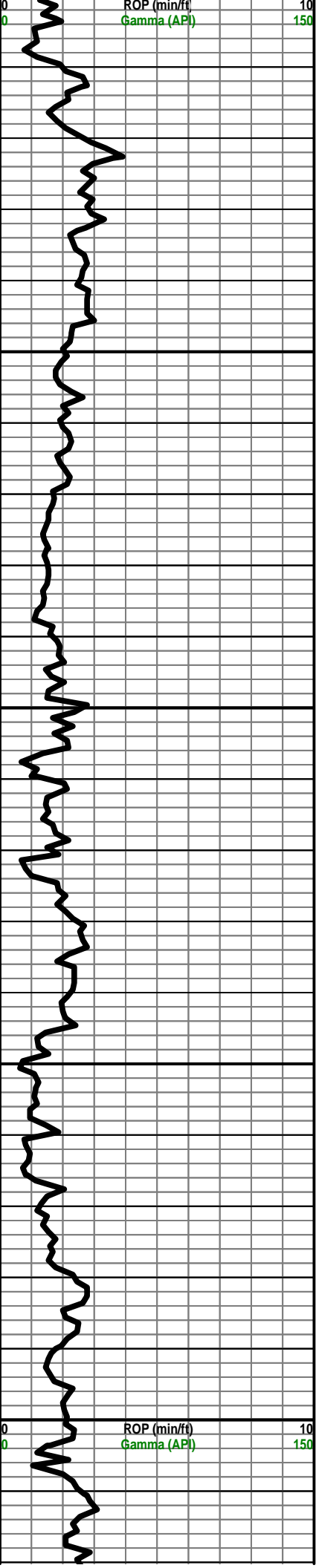
WINFIELD 2755' (+ 66)

30" CFS Dolo Wht-Gry FxIn Fair-Med IxIn Por Tr Fair OOM (some w/ OOL in Pl Drk Gry) / Fair IxIn Por w/ Good Vug Leaching Dis Fos (Pelec Brach) Fair SG w/ Broken Sh Red-Char AA Fissil Sli Scatt Flor Stn No Odor Sli-Fair SG No Flor in Gas

60" CFS Dolo Wht-Gry FxIn Fair-Med IxIn Por Tr Fair OOM (some w/ OOL in Pl Drk Gry) / Fair IxIn Por w/ Good Vug Leaching Dis Fos (Pelec Brach) Fair SG w/ Broken Sh Red-Char AA Fissil Sli Scatt Flor Stn No Odor Sli-Fair SG No Flor in Gas

Sh Gry-Red-Char Abd Ls Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp No Odor No Flor No Stn NS





TOWANDA 2804' (+ 17)

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Dec Gry-Red-Char AA No Odor No Flor No Stn NS

Dolo Gry FxIn AA Fine IxIn Por Micritic Sh Dec Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Crm FxIn AA Fine IxIn Por Micritic Sh Dec Gry-Red AA No Odor No Flor No Stn NS

FORT RILEY 2856' (-35)

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Abd Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Abd Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Abd Gry-Red AA No Odor No Flor No Stn NS

Sh Gry-Red Abd Tr Dolo Gry-Wht FxIn AA Fine IxIn Por No Odor No Flor No Stn NS

Ls Wht FxIn F IxIn Por Micritic Tr Poor OOM Por w/ Poor Small Vug Dis No InterOOM Por Cht Wht Transl- Op Vit Shp Chalk Sh Dec Gry-Red No Odor No Flor No Stn NS

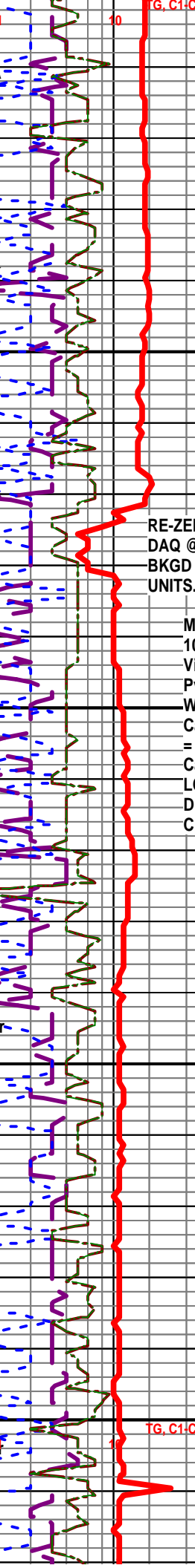
Ls Wht FxIn F IxIn Por Tr Poor OOM Por w/ Poor Small Vug Dis Poor Develop No InterOOM Por Grad Ls Gry Igran Poor Cht Wht-Gry Transl-Op Vit Shp Chalk Sh Dec Gry-Red No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn F IxIn Por Grad Ls Gry Gran w/ Poor Igran IxIn Por Chalk Inc Red-Gry No Odor No Flor No Stn N'

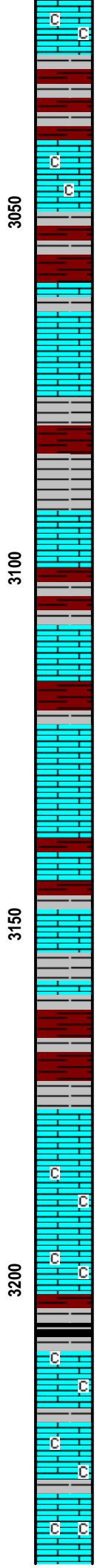
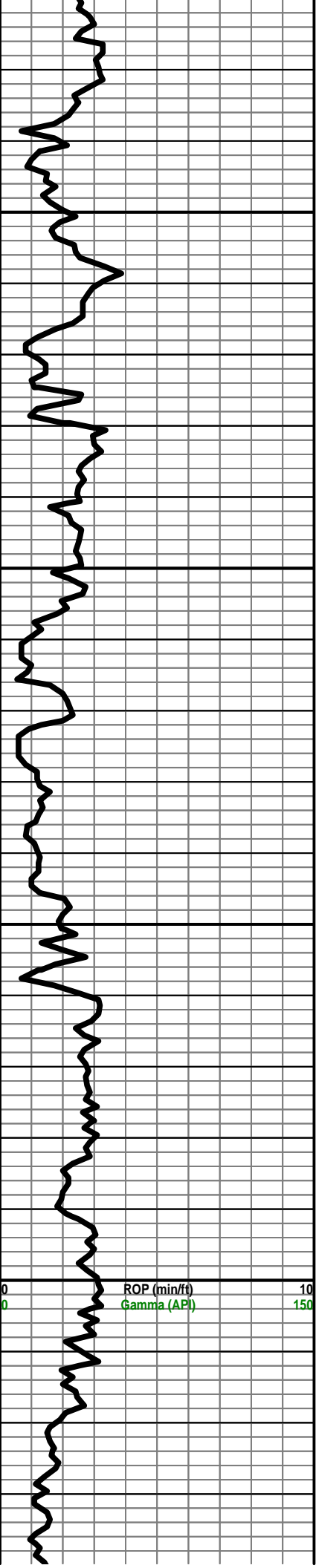
Sh Gry-Red Abd Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Gry Abd Dec Red Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn F IxIn Por Grad Ls Gry Gran w/ Poor Igran IxIn Por Tr Cha



RE-ZE
DAQ @
BKGD
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Sh Dec Red-Gry Fissil No Odor No Flor No Stn N

WREFORD 3038' (-217)

Ls Wht-Crm-Gry FxIn F IxIn Por Grad Ls Gry Gran w/ Poor Igran IxIn Por Tr Cha
Sh Dec Red-Gry Fissil No Odor No Flor No Stn NS

BASE CHASE GROUP 3060' (-239)

Sh Red Abd Dec Gry Fissil AA Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Red Abd Dec Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

BADER 3192' (- 371)

Sh Red Abd Dec Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

COTTONWOOD 3106' (-285)

Sh Red Abd Inc Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Red Abd Inc Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Red Abd Inc Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

NEVA 3183' (- 362)

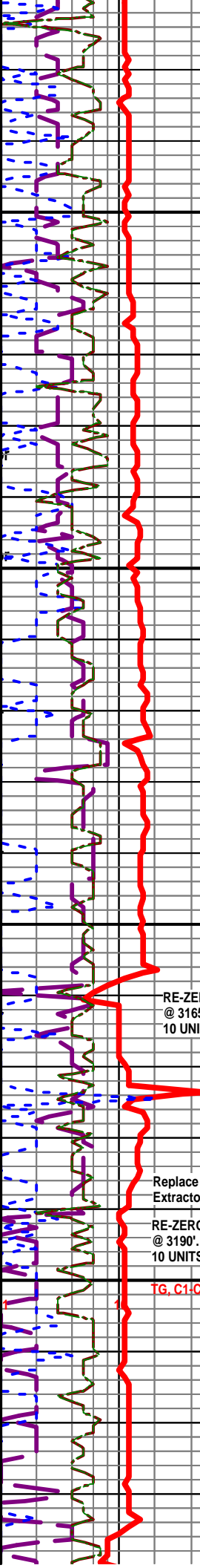
START 10' SAMPLES WET & DRY @ 3200'
BEGIN DISPLACEMENT OF MUD SYSTEM @ 3200'

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren V Abd Chalk Inc Sh Red-Gry-Char-Blk Carb Soft-Fissil No Odor V Sli Dec Tr Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

RED EAGLE 3220' (- 409)

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren V Abd Chalk Inc Sh DecRed-Gry-Char-Blk Carb AA Soft-Fissil No Odor V Sli Dec Tr Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Pr

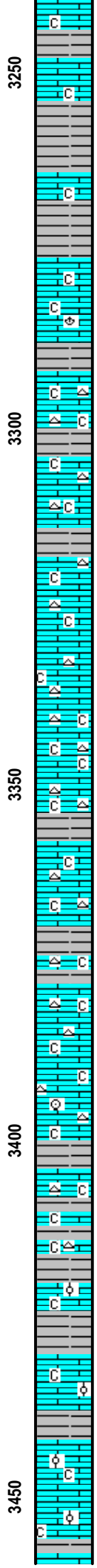
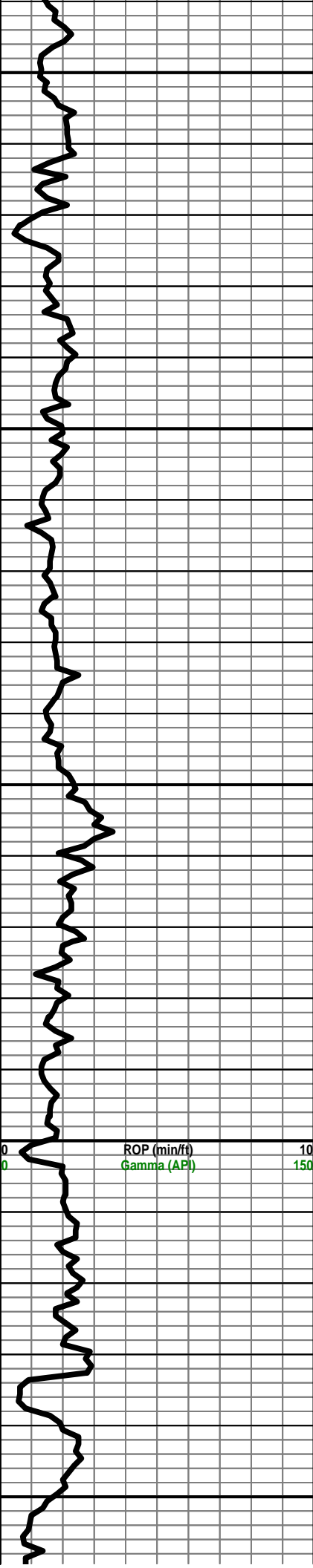


RE-ZERO @ 3190' 10 UNITS

Replace Extractor

RE-ZERO @ 3190' 10 UNITS

TG, C10



Barren V Abd Chalk Inc Sh Gry-Char-Blk Carb Soft-Fissil No Odor V Sli Dec Tr
Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren V Abd Chalk Inc Sh Gry-Char-Blk Carb Soft-Fissil No Odor V Sli Dec Tr
Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren V Abd Chalk Sh Gry-Char-Red Soft No Odor V Sli Tr Scatt Min ? Flor (Lt
Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren V Abd Chalk Sh Gry-Char-Red Soft No Odor V Sli Tr Scatt Min ? Flor (Lt
Grn) (Few Pcs) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Fos (Brach) Sh Gry-Char-Red Soft No Odor Tr
Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

FORAKER 3292' (- 471)

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Inc Abd Scatt Mir
Flor (Lt Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt
Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt
Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt
Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren Abd Chalk Sh
Gry-Char Soft No Odor Scatt Min ? Flor (Lt Grn) NS

ADMIRE GROUP 3344' (- 523)

Ls Wht-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit w/OOL Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flo
(Lt Grn) Stn NS

Ls Wht-Gry-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren Fos Cry Cht Drk Gry Op Shp Vit Chalk Sh Gry-Char Soft No Odor Scatt
Min ? Flor (Lt Grn) No NS

Ls Wht-Gry-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren Cht Drk Gry Op Shp Vit Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flo
(Lt Grn) No NS

Ls Wht-Gry-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren Cht Wht Gry Op Shp Vit Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor
(Lt Grn) NS

Ls Crm-Wht-Gry FxIn Poor IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Fos Cry Cht Gry Op Shp Vit w/OOL % Fos (? Spic) Chalk Sh Gry-Char Soft No
Odor Scatt Min ? Flor (Lt Grn) NS

Ls Crm-Wht-Gry FxIn Poor IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt Grn) NS

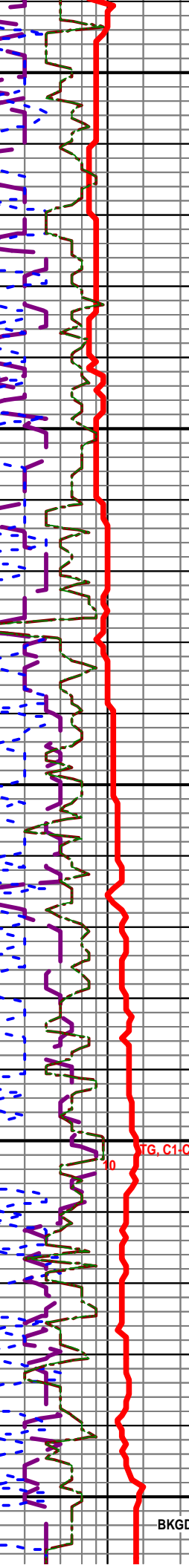
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Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Grn) NS

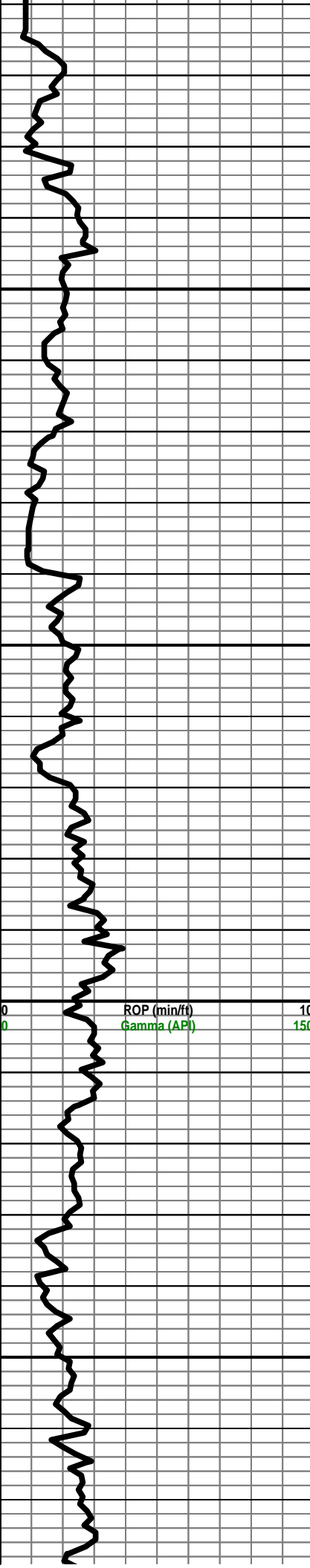
Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS





Ls Crm-Wht-Gry FxIn Poor - Fair IxIn Por Barren Tr Chalk Sh Red Tr Soft No Odor No Flor NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

ROOT SHALE 3512' (- 691)

Ls Crm-Wht- FxIn Poor IxIn Por Tr Poor-Fair OOM Por Poor-Fair Dis Poor-Fair Develop Barren Chalk Sh Gry-Char Inc Soft No Odor No Stn NS

Sh Gry-Char Inc Soft Tr Ls Crm-Wht AA- FxIn Poor IxIn Por Tr Poor-Fair OOM Por Poor-Fair Dis Poor-Fair Develop Barren Chalk No Odor No Flor No Stn NS

STOTLER 3540' (- 719)

Ls Crm FxIn Poor IxIn Por w/ Tr/OOL in pl Poor Dis Poor Develop Sh Gry-Char / No Odor Scat Min ? Flor (Lt Grn) NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/OOL in pl Poor InterOOM Por Poor Dis Poor Develop V Soft Barren Fos Crin Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad V Soft Barren Chalk Fos Abd Crin Cht Char-Gry-Blk Op Vit Shp Tr ? VSSG Tr Scatt Stn ? Min Flor Tr Drk Gillsonitic Str on Edge of Cht/Ls No Cut w/Acit Sh Gry-Char Soft No Odor No Stn NS

Sh Gry-Char-Red Soft Ls Gry-Crm FxIn Dns Micritic Barren Tr Poor OOM Por No Dis Chalk V Sli Tr ? Min Flor No Odor NS

Ls Gry-Crm FxIn Dns Micritic Barren Tr Poor OOM Por No Dis Chalk Sh Gry-Char-Red Soft V Sli Tr ? Min Flor No Odor NS

TARKIO 3602' (- 781)

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOM Por No Dis Fos Foram Chalk Sh Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOM Por Poor Dis Poor Develop (1 Pc) Chalk Sh Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOL Por Poor Dis Poor Develop Fos Abd Crin Chalk Sh Inc Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

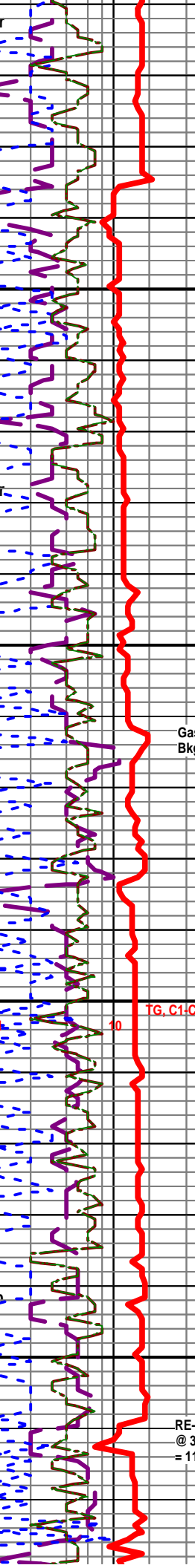
Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOL Por AA Poor Dis Poor Develop Fos Abd Crin Chalk Sh Inc Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

Ls Crm-Gry FxIn Dns Micritic Barren Fos (Pelec) Chalk Inc Cht Gry Op Shp Vit Sp Gry Soft No Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren w/Tr Poor OOL Por Poor Dis Poor Develop Fos Crin Chalk Sh Inc Gry-Red Soft No Flor No Odor NS

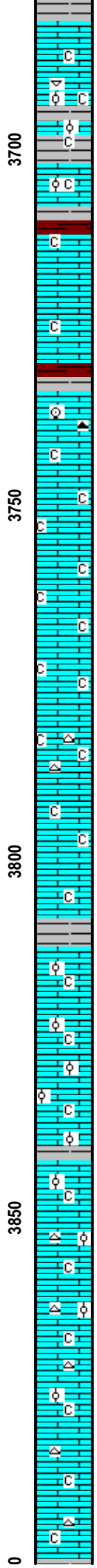
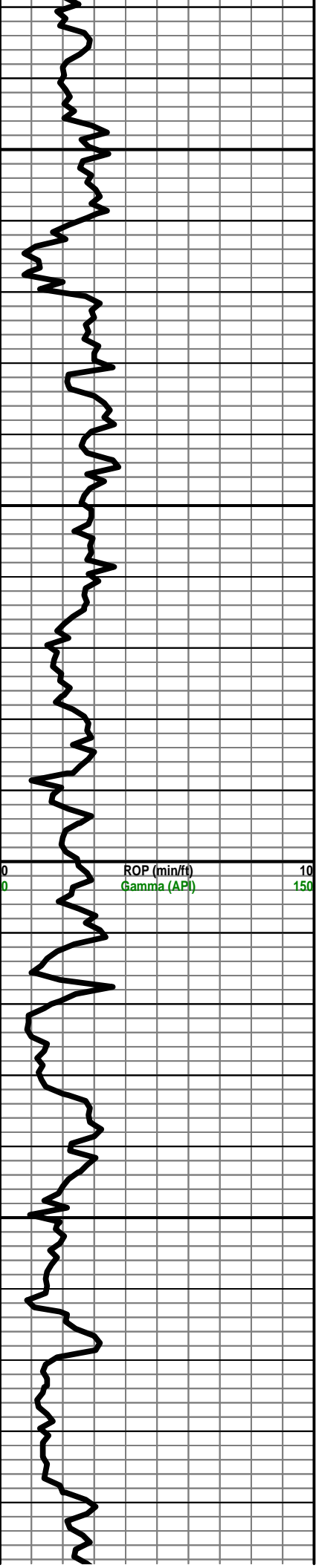
Ls Crm-Gry-Wht FxIn Dns Micritic Barren Chalk Sh Red- Gry Soft (Wash Red) Scatt ? Min Flor No Odor NS

Ls Crm-Gry FxIn Dns Micritic Grad Gran FxIn Gran Por Barren Fos (Spic) Chalk Inc Sh Red-Gry Soft Scatt ? Min Flor No Odor NS



TG, C1, C2

RE- @ 3 = 11



Ls Crm-Gry FxIn Dns Micritic Grad Gran FxIn Gran Por Barren Chalk Abd Sh
Red-Gry-Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren w/Tr Poor OOL Por Poor Dis Poor
Develop Fos (Pelec) Chalk Abd Sh Gry-Red-Char-Blk Carb Soft Scatt ? Min Flo
No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren w/Tr Poor OOL Por Poor Dis Poor Develop Fos (Pelec)
Chalk Abd Sh Gry-Red-Char-Blk Carb Soft Scatt ? Min Flor No Odor NS

BERN 3712' (- 891)

Ls Wht-Crm FxIn Dns Micritic Barren Chalk Abd Sh Gry-Red-Char Soft Scatt ?
Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micritic Barren Chalk Abd Sh Gry-Red-Char Soft Tr Scatt
Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micritic Barren Fos Crin Chalk Cht Drk Gry Op shp Vip Sh
Gry-Red-Char Soft Tr Scatt ? Min Flor No Odor NS

Ls-Gry-Crm FxIn Dns Micrite Barreb V Abd Chalk Sh Gry-Grn Soft Tr Scatt ? Min
Flor No Odor NS

Ls-Gry-Crm FxIn Dns Micrite Barreb V Abd Chalk Sh Gry-Char-Red Soft Tr Scatt
? Min Flor No Odor NS

Ls-Gry-Crm FxIn Dns Micrite Barreb V Abd Chalk Sh Gry-Char-Red Soft Tr Scatt
? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic Barren V Abd Chalk Cht Tan Op shp Vip Sh
Gry-Char Soft Tr Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic Barren V Abd Chalk Cht Tan Op shp Vip Sh
Gry-Char Soft Tr Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Barren Dec Chalk Char Soft Tr Scatt ? Min Flor No
Odor NS

Ls Crm-Wht FxIn Dns Micrite Barren Dec Chalk Char Soft Tr Scatt ? Min Flor No
Odor NS

TOPEKA 3812' (-991)

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

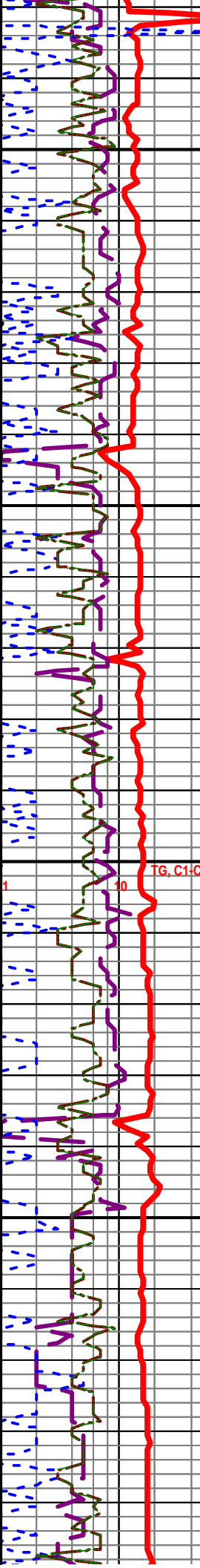
Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Cht Wht-Tan Op Shp Vit Chalk Sh Char Soft Scatt ? Min
Flor No Odor NS

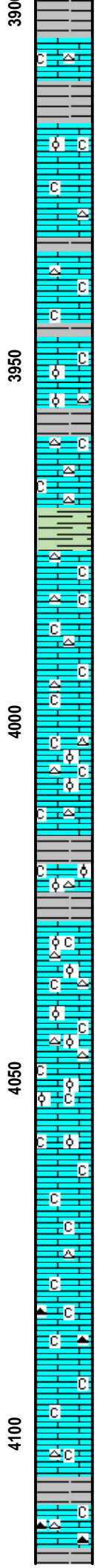
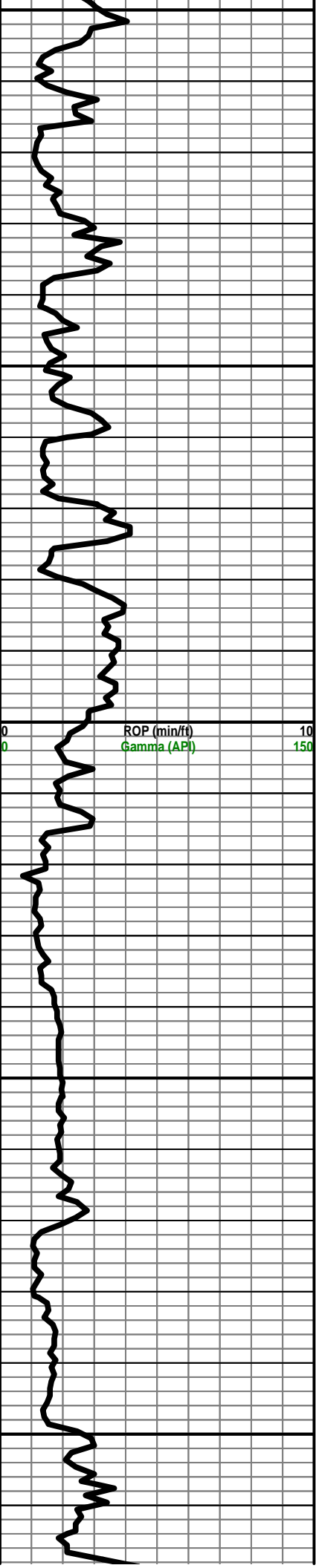
Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Cht Wht-Tan Op Shp Vit Chalk Sh Char Soft Scatt ? Min
Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Cht Wht-Tan Op Shp Vit Chalk Sh Char Soft Scatt ? Min
Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic barren Cht Wht-Tan Op Shp Vitn Tr Chalk Shar
Char Soft Sli Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic barren Cht Wht-Tan Op Shp Vitn Tr Chalk Shar
Char Soft Sli Scatt ? Min Flor No Odor NS





Ls Crm-Wht FxIn Dns Micritic barren Cht Wht-Tan Op Shp Vitn Tr Chalk Shar Char Soft Sli Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Grad V Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por Cht Gry-Wht Op Shp Vit Chalk Sh Char-Red Soft-Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor N!

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor N!

Ls Crm-Wht FxIn Dns Micrite Grad Poor OOM Por w/Poor leach Dis Poor Develop Poor InterOOM Por Cht Gry-Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

LECOMPTON 3975' (- 1154)

Ls Crm-Wht FxIn Dns Micrite ? Trip w/ Pin-Pt Leached Por w/ Gillsonitic Residue (1 Pcs) Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Gry-Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por Cht Gry-Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Grad V Chalky Cht Wht Op Shp Vit Sh Char-Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Gry-Wht Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Gry-Wht Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor N

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Gry-Wht Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Tan Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Abd Chalk Sh Char-Grn Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

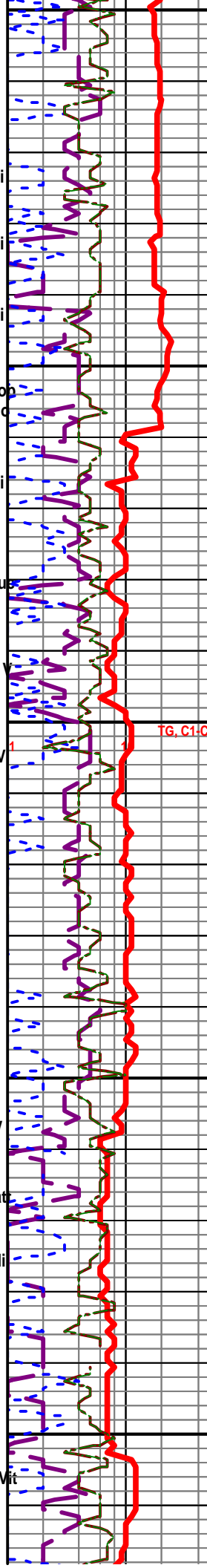
Ls Crm-Wht FxIn Dns Micrite Abd Chalk Cht Wht Op Spp Vit Sh Char Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

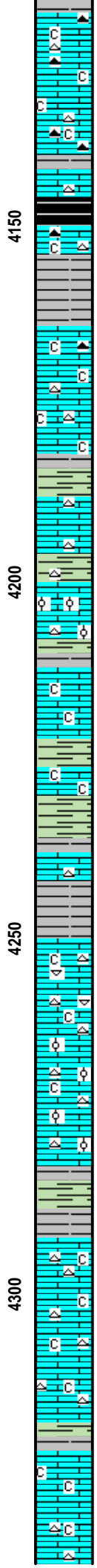
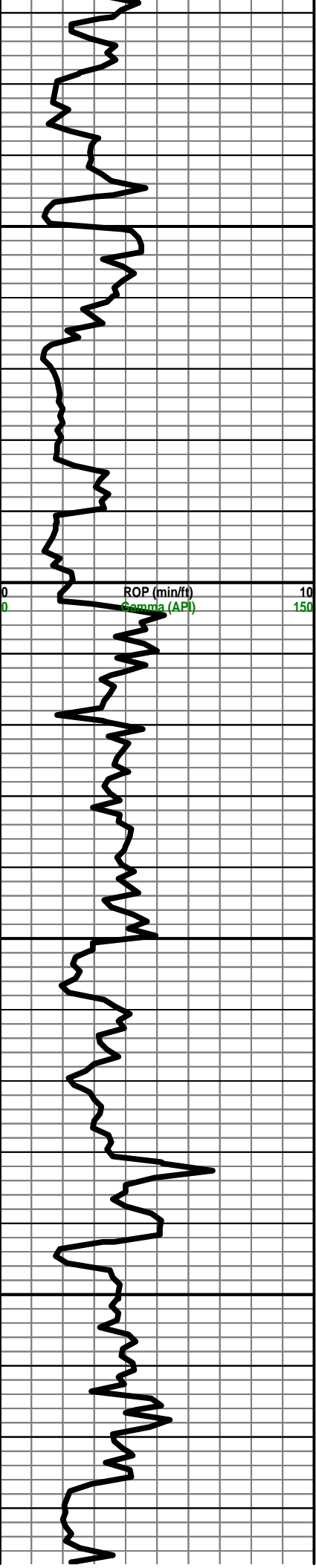
Ls Crm-Wht-Gry FxIn Dns Micrite Dec Chalk Cht Drk Gry-Blk Op Shp Vit Sh Char-Red Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Sh Char-Gry-Aqua- Blk Carb Fissil Ls Crm-Wht-Gry FxIn Dns Micrite Dec Chalk Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Sh Blk Carb Char-Gry Fissil Ls Crm-Wht-Gry FxIn Dns Micrite Cht Blk Op Shp Vit Dec Chalk V Sli Tr-V Sli Tr Scatt Min Flor No Odor N

Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Wht Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Scatt Min Flor No Odor N





Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Scatt Min Flor No Odor NS

HEEBNER 4146' (- 1325)

Sh Blk Carb Fissil Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Flor No Odor NS

Sh Blk Carb Fissil Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Flor No Odor NS

TORONTO 4164' (- 1343)

Ls Wht FxIn Dns Micrite V Hvy Abd Chalk Sh Blk AA-Char Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Ls Wht FxIn Dns Micrite V Hvy Abd Chalk Cht Wht Op Shp Vit Sh Blk AA-Char Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

DOUGLAS 4184' (- 1363)

Ls Wht FxIn Dns Micrite Dec Chalk Cht Wht Op Shp Vit Sh Blk AA-Char Fissil No Flor No Odor NS

Ls Wht FxIn Dns Micrite Abd Chalk Cht Wht Op Shp Vit Sh Char-Gry Grn Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por Abd Chalk Cht Wht-Gry Op Shp Vit Sh Gry-Char-Grn Tr. Blk Carb AA Fissil No Flor No Odor NS

Ls Brn FxIn Dns Micrite Tr Chalk Sh Grn Fissil No Flor No Odor NS

Ls Brn-Crm-Wht FxIn Dns Micrite Tr Chalk Sh Grn-Gry Fissil No Flor No Odor NS

IATAN 4238' (- 1417)

Sh Grn-Gry Fissil "Gummy" Soft Ls Crm-Gry FxIn Dns Micrite Abd Chalk No Flor No Odor NS

LANSING 4250' (- 1429)

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren Fos (Pelecyp) Cht Wht Op shp Vit Dec Chalk Sh Char Fissil No Odor Scatt ? Min Flor N

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren Grad Poor Gran Por w/Poor Igran Por Tr Sm OOL in pl Poor Dis Poor Develop Cht Wht Op shp Vit Dec Chalk Sh Char Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren Grad Poor Gran Por w/Poor Igran Por Tr Sm OOL in pl Poor Dis Poor Develop Cht Wht Op shp Vit Dec Chalk Sh Char Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Op shp Vit Pyr Mass Dec Chalk Inc Sh Char-Grn Carb Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Op shp Vit Dec Chalk Inc Sh Char-Grn Carb Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Inc Op shp Vit Dec Chalk Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

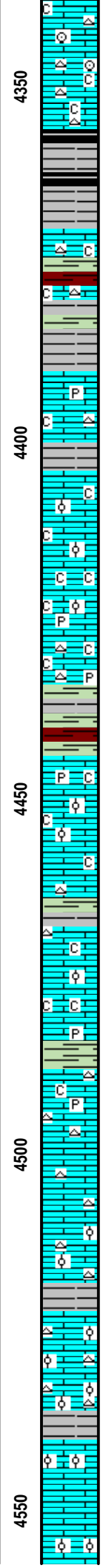
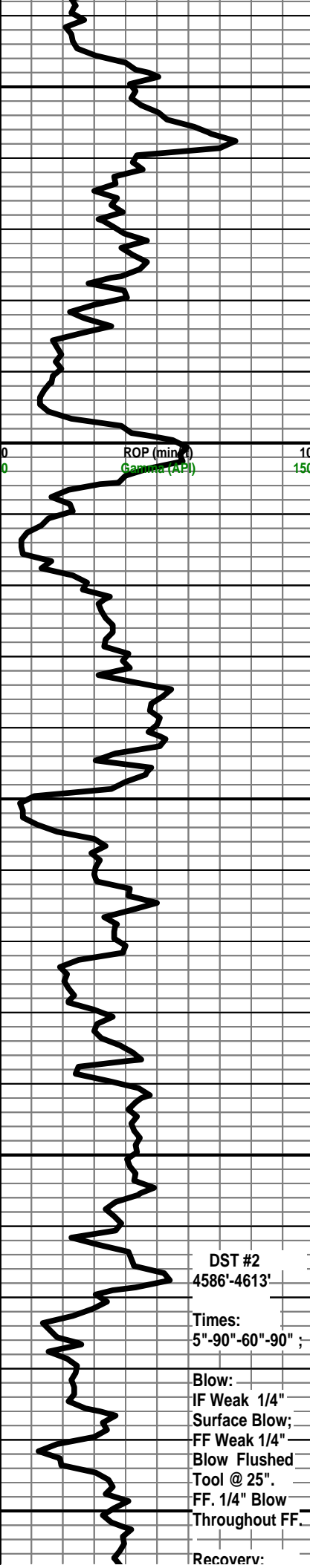
Ls Wht-Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Dec Op shp Vit Chalk Inc Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

Ls Wht-Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren AA Chalk Inc Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

Ls Wht-Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren AA Chalk Inc Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

TG, C1, C2

RE @ 11



Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Barren AA Cht Wht-Tan Dec Op shp Vit Chalk Inc Fos Crin Sh Char-Grn Fissil No Odor Sli Inc Scatt ? Min Flor NS

Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Barren AA Cht Wht-Tan Dec Op shp Vit Chalk Inc Fos Crin Sh Char-Blk Carb Fissil No Odor Sli Inc Scatt ? Min Flor NS

Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Cht Wht-Tan Dec Op Shp Vit Chalk Dec Sh Char-Blk Carb Inc Fissil No Odor Sli Inc Scatt ? Min Flor NS

Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Cht Wht-Tan Dec Op Shp Vit Inc Chalk Sh Char-Grn-Tr Red Fissil No Odor Sli-No Scatt ? Min Flor NS

Ls Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Pyr Mass Cht Wht Dec Op Shp Vit V Abd Chalk Sh Char-Grn Inc Fissil No Odor Sli Scatt ? Min Flor NS

Ls Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Pyr Mass Cht Wht Dec Op Shp Vit V Abd Chalk Sh Char-Grn Inc Fissil No Odor Sli Scatt ? Min Flor NS

Ls Crm-Wht Fxln Dns Micritic Poor Ixln Por Barren Grad Good Med-Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair Leaching Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Crm-Wht Fxln Dns Micritic Poor Ixln Por Barren Grad Good Med-Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair Leaching Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Tr OOM por AA Barren Cht Wht-Gry Op Shp Vit Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Sh V Abd Char-Grn-Aqua Fissil w/Pyr Inclus Ls Dec Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Tr Chalk No Odor Tr Scatt ? Min Flor NS

Sh V Abd Char-Grn-Red-Aqua Fissil Ls AA Crm-Tan-Gry Fxln w/Pyr Mass Dns Micritic Poor Ixln Por Barren Tr Chalk No Odor V Sli Tr Scatt ? Min Flor NS

Ls Wht-Crm AA Fxln Dns Micritic Poor Ixln Por Barren Grad Good-Med-Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair Leaching Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Wht-Crm-Gry Fxln w/Pry Inclus Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm AA Fxln Dns Micritic Poor Ixln Por Barren Grad Good Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair-Good Leaching (1 Pc Excellent) OOL Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Wht-Crm-Gry Fxln w/Pry Inclus Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit w/OOL in pl Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

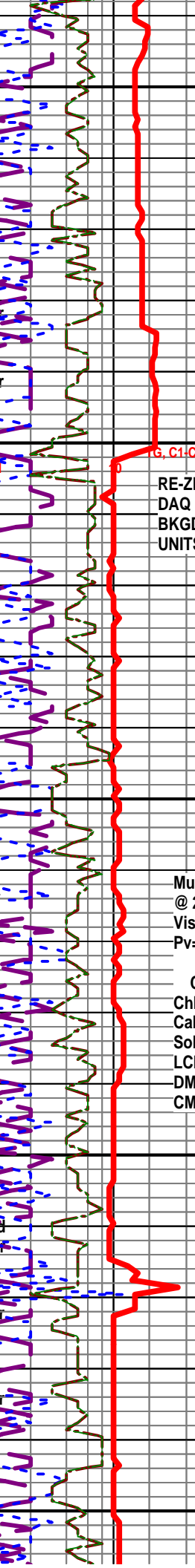
Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Grad Good Med-Lg OOM Por Poor-Fair Dis w/ OOL in pl Fair-Med Develop Fair-Med InterOOM Por Fair-Med Leaching OOM Por Cht Wht-Gry Op Shp Vit Inc Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Grad Tr Good Med-Lg OOM Por AA Poor-Fair Dis w/ OOL in pl Fair-Med Develop Fair-Med InterOOM Por Fair-Med Leaching OOM Por Cht Wht-Gry Op Shp Vit Abd Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Grad Tr Good Med-Lg OOM Por AA Poor-Fair Dis w/ OOL in pl Fair-Med Develop Fair-Med InterOOM Por Fair-Med Leaching OOM Por Cht Wht-Gry Op Shp Vit Abd Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Tr OOM Por AA Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Tr OOM Por AA Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor N



30' Mud w/Tr. Oil
On Top Of Tool.

Pressures:
IH 2196#;
FH 2168#;
IF 65-36#;
FF 61-44#;
ISIP 1394#;
FSIP 1285#;
Temp = 110
Degrees F.

ROP (min/ft)
Gamma (AI)
DST #2
4586' - 4613'

CFS @ 4613'
20" - 45" - 60"

Pipe Strap @
4613' = .90'
Long to
Board.

4600

4650

4700

4750

Ls Wht-Crm-Gry FxIn Dns Micritic Poor IxIn Por Barren Tr OOM Por AA Sh
Char-Grn Fissil No Odor Tr Scatt ? Min Flor N

Ls Wht-Crm-Gry FxIn Dns Micritic Poor IxIn Por Barren Cht Gry Op Shp Vit Sh
Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

STARK 4586' (- 1765)

Sh Blk Carb Fissil V Abd Fair Odor Fair "Streaming Gas Bubbles" SG in Sh Ls Wht FxIn Poor IxIn Por
Tr Pin-Pt IxIn Por w/Pyr Inclus Cht AA V Sli Stn ? Min Flor SSG

SWOPE 4590' (-1769)

20" CFS Ls Wht FxIn w/ Tr Poor-Fair OOL Por w/OOL in pl Poor-Fair Leaching Por w/Tr Vug Pin-Pt Por
w. Sli SG/SO Faint Odor Sli Flor (Lt Grn) w/ SO/SG (few pcs)

45" CFS Ls Wht FxIn w/ Tr Poor-Fair IXIn Pin-Pt Por Poor-Fair Leaching Por w/Tr Vug Leached Por
Sli SG/SO Faint Odor Sli Flor (Lt Grn) w/ SO/SG (few pcs) Cht Gry Op Shp Vit SSG/SSO

60" CFS Ls Wht FxIn w/ Tr Poor-Fair IXIn Pin-Pt Por Poor-Fair Leaching Por w/Tr Vug Leached Por
Sli SG/SO No Odor Sli Flor (Lt Grn) w/ SO/SG (few pcs) Hvy Stn (Drk Blk 1 Pc w/ Fair SO/SG)
FairSO/SG (Few Pcs) Sli SG/SO

HUSHPUCKNEY 4628' (- 1807)

Sh Blk Carb Fissil Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Cht AA No Flor
No Odor NS

Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Cht AA Sh Blk Carb Fissil No Flor
No Odor NS

Sh Blk Carb -Char Abd Fissil Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Cht
AA Wht-Brn Op Shp Vit Char Sh Blk Char Fissil Tr Scatt ? Min Flor No Odor NS

Ls Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren Grad Tr Poor OOM Por Poor
Dis w/ OOL in pl Poor Develop Poee-No InterOOM Por Poor-No Leaching OOM
Por Chalk Sh Char Fissil No Odor Tr Scatt ? Min Flor NS

BASE KANSAS CITY 4676' (- 1855)

Sh Char Abd Fissil Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

Sh Char Abd Fissil Ls Gry FxIn Poor IxIn Por Mricritic Chalk Tr Scatt ? Min Flor
No Odor NS

Sh Char Abd Fissil Ls Gry Inc FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

Sh Char Abd Fissil Ls Gry Inc FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

Sh Char Abd Fissil Ls Gry Inc FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

MARMATON 4722' (- 1901)

Ls Wht-Crm FxIn Poor IxIn Por Micritic Chalk Cht Drk Blk-Gry Op Shp Vit Chalk
Sh Char AA Fissil No Flor No Odor NS

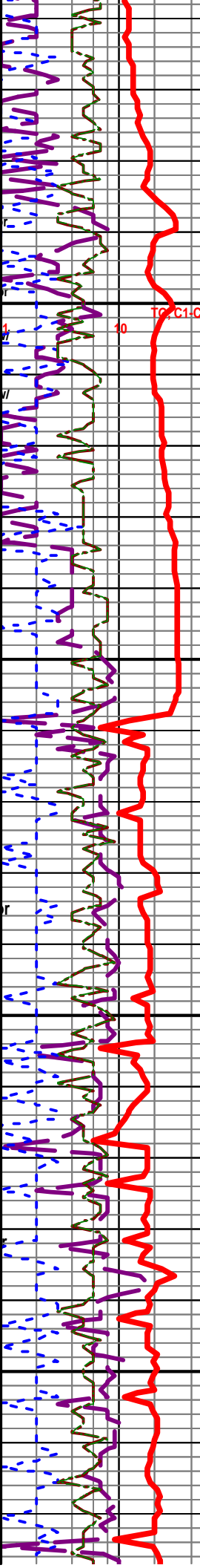
Ls Wht-Crm FxIn Poor IxIn Por Micritic Chalk Cht -Gry Op Shp Vit Chalk Sh Char
AA Fissil No Flor No Odor NS

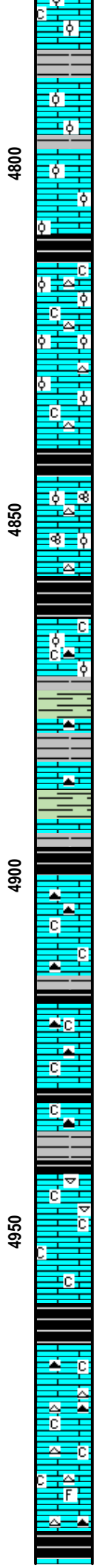
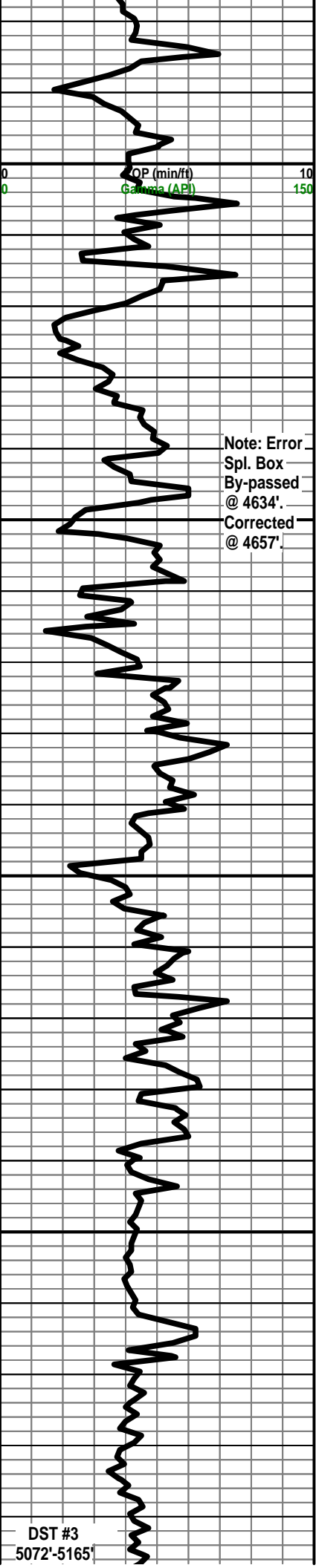
Ls Wht-Crm FxIn Poor IxIn Por Micritic Grad Poor Small OOM Por Barren w/Tr
OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Cht -Gry Op Shp Vit Sh Char
AA Fissil No Flor No Odor NS

Ls Wht-Crm FxIn Poor IxIn Por Micritic Grad Poor Small OOM Por Barren w/Tr
OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No
Odor NS

Ls Wht-Crm Poor Small OOM Por Barren w/Tr OOL in pl Fair-Good Dis Fair Inter
OOL Por Grad FxIn Poor IxIn Por Micritic Chalk Sh Char AA Fissil No Flor No
Odor NS

Ls Wht-Crm FxIn Poor IxIn Por Micritic Grad Poor Small OOM Por Barren w/Tr
OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No





Odor NS

Ls Wht-Crm Fxln Poor Ixln Por Micritic Grad Poor Small OOM Por Barren w/Tr OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No

Odor NS

Ls Wht-Crm Fxln Poor Ixln Por Micritic Grad Poor Small OOM Por Barren w/Tr OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No

Odor NS

Ls Wht-Gry Fxln Poor Ixln Por Micritic w/ Tr Poor OOM Por AA Tr Chalk Cht Tan Op Shp Vit AA Sh Blk Carb-Char Gry Grn Soft- Fissil No Flor No Odor NS

PAWNEE 4815' (- 1994)

Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic w/ Tr Poor OOM Por AA Tr Chalk Cht Tan Op Shp Vit AA Sh Char-Gry Grn Soft- Fissil No Flor Faint Odor NS

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic w/ Tr Poor OOM Por AA Tr Chalk Cht Tan Op Shp Vit AA Sh Char-Gry Grn Soft- Fissil Tr Sli ? Min Flor No Odor NS

FORT SCOTT 4845' (-2024)

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic w/ Tr Poor OOM Por AA Fos Foram Tr Chalk Cht Tan Op Shp Vit AA Sh Blk Carb Char-Gry Grn Soft- Fissil Tr Sli ? Min Flor No Odor NS

CHEROKEE SHALE 4859 (-2038)

Sh Blk Carb Char-Gry Grn Soft- Fissil Abd Ls Wht-Crm-Gry Fxln Poor Ixln w/ Tr Poor OOM Por w/tr Leaching Por AA Tr Chalk Cht Tan-Gry Op Shp Vit AA Tr Sli ? Min Flor No Odor NS

Sh Char-Gry-Grn Tr Blk Carb Soft- Fissil Abd Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Tr Chalk Cht Tan-Gry Op Shp Vit AA Tr Sli ? Min Flor No Odor NS

Sh Char-Gry-Grn Soft- Fissil Abd Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Tr Chalk Cht Tan-Gry Op Shp Vit AA Tr Sli ? Min Flor No Odor NS

Sh Blk Carb Abd Tr Char-Gry-Grn Soft- Fissil Ls Wht-Crm-Gry Fxln Poor-Fair Ixln Por Micritic in pt. Tr Ls Crm w/ Tr.Ixln Fair Por w/ tr Vug Leaching w/ Sli SO Pcs) Tr Chalk Tr Sli ? Min Flor No Odor Tr Sli

Ls Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic Tr Chalk Sh Char-Gry Grn Soft- Fissil Tr Inc ? Min Flor (lt Grn) No Odor NS

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic Tr Chalk Cht Tan Inc Op Shp Vit Sh Char-Gry Grn Soft- Fissil Tr Inc ? Min Flor No Odor NS

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic Tr Chalk Cht Tan Inc Op Shp Vit Sh Blk Carb Abd Tr Char-Gry Grn Soft- Fissil Tr Inc ? Min Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Cht Tan Op Shp Vit Conc Sh Tr Blk Carb- Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Fos (Pelec) Chalk Sh Tr Blk Carb- Char Tr Soft- Fissil No Flor No Odor NS

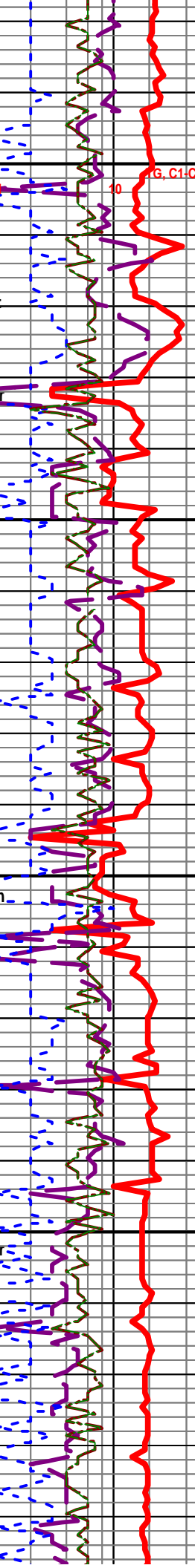
Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Chalk Sh Blk Carb- Char Tr Soft- Fissil No Flor No Odor NS

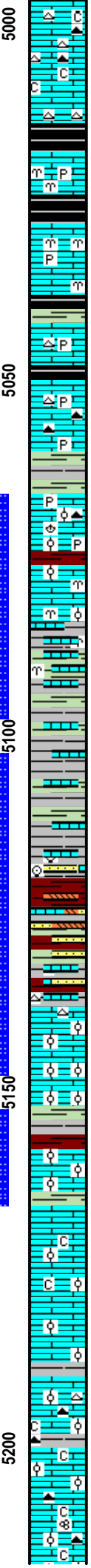
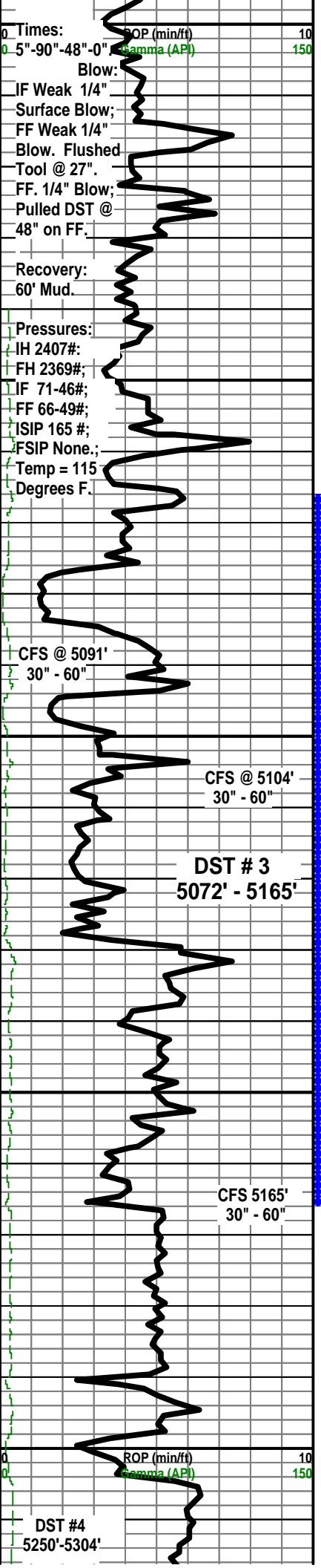
Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Chalk Cht Blk Op Shp Vit Sh Blk Carb Abd - Char Tr Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Fos (Foram) Chalk Cht Gry Op Shp Vit Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht Tan-Brn Op Shp Vit w/Fos Abd (Spicule) Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht Tan-Brn Op Shp Vit Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS





Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht Tan-Brn Op Shp Vit Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht Tan-Brn Op Shp Vit Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Fos (Bryoz) ABD Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor N

Ls Crm-Gry-Drk Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Fos (Bryoz) ABD Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

?? MORROW SHALE 5038' (-2217)

Sh Blk Carb - Char-Grn Soft- Fissil Ls Crm-Gry-Drk Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Cht Amber No Flor No Odor N

Ls Crm-Gry-Drk Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Cht Amber Sh Tr Blk Carb - Char-Grn AA Soft- Fissil No Flor No Odor NS

Sh Char-Grn-Gry Soft- Fissi Ls Crm-Gry-Drk Gry AA Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Cht Amber No Flor No Odor N

Ls Crm-Gry-Drk Gry AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Tr Poor OOL Por w/OOL in pl Poor Dis Fos (Brach) Barren Cht Amber AA Sh Char-Grn-Gry Soft- Fissil No Flor No Odor NS

30" CFS Ls Crm-Gry AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Tr Poor OOM/OOL Por w/OOL in pl Poor Dis Tr Pin-Pt Por w/VSSO (Drk Brn) Fos (Bryoz) Barren Sh Char-Gry-Tr Red Soft- Fissil No Flor No Odor NS

60" CFS Ls Crm-Gry Arg LS AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Tr Poor OOM/OOL Por w/OOL in pl Poor Dis Fos (Bryoz) Barren Sh Char-Gry- Grn Inc Soft- Fissil No Flor No Odor NS

30" CFS Sh Abd Char-Gry-Grn Char-Olive-Aqua Varicolored Sh (80% in Tray) Tr Ls Dec AA (20% of Tray) No Odor No Stn No Flor N!

60" CF Sh Abd Char-Gry-Grn Char-Olive-Aqua Varicolored Sh (80% in Tray) Tr Ls Dec AA (20% of Tray) No Odor No Stn No Flor NS

Sh Abd Char-Gry-Grn Char-Olive-Aqua Varicolored Sh (80% in Tray) Tr Ls Dec AA (20% of Tray) No Odor No Stn No Flor NS

Sh AA Inc Red varicolored (Wash Red) Ls Crm-Gry Arg LS AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Qtz Ss Fgrn Well Sorted w/ Poor-Fair Igran Por (CaCO3 Matril) w/Tr VSSO (Few Pcs) Friable Fos (Crib) No Odor

Sh AA Inc Red varicolored (Wash Red) Ls Crm-Gry Arg LS Inc Fxln Poor Ixln Por Micritic Qtz Ss Fgrn Well Sorted w/ Poor-Fair Igran Por (CaCO3 Matril) w/Tr VSSO (Few Pcs) Friable Cht Org Op Shp Vit No Odor

MISSISSIPPIAN STE. GEN 5138' (- 2317)

Ls Wht-Crm Fxln Grad Gran Por w. Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Barren Tr Qtz Ss Fgrn AA Sh Varicolored Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

30" CFS Ls Wht-Crm Fxln Grad Gran Por w. Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Tr Scat Lt Brn Stn w/ Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Sh Varicolored Char-Gry-Aqua -Red Fissil No Odor Sli Scatt Stn Flor (Lt Grn) Sli SG/SO

60" CFS Ls Wht-Crm Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Tr Scat Lt Brn Stn w/ Tr Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Cht Smoky Gry Transl-Op Shp Vit Sh Varicolored Sh Char-Aqua Abd Fissil No Odor Sli Scatt Stn Flor (Lt Grn) Sli SG/SO

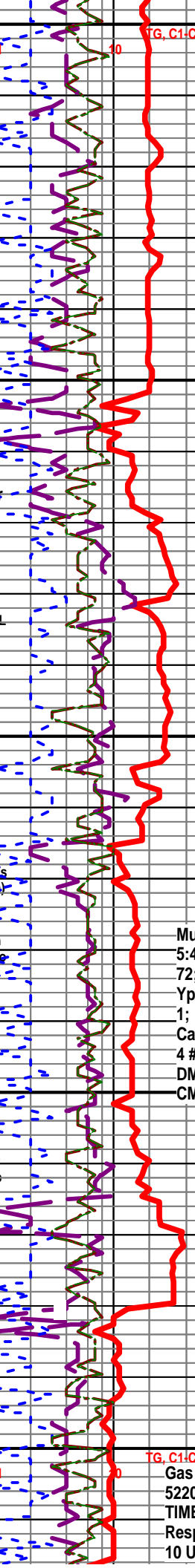
Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Tr Dec Scat Lt Brn Stn w/ Tr Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Tr Chalk Sh Blk Carb (? Sluff) Char-Aqua-Grn Inc Fissil No Odor Sli Dec Scatt Stn Flor (Lt Grn)-No Stn Flor Sli VS Stn -NS

Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Tr Dec Scat Lt Brn Stn w/ Tr Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Tr Chalk Sh Blk Carb (? Sluff) Char-Aqua-Grn Inc Fissil No Odor Sli Dec Scatt Stn Flor (Lt Grn)-No Stn Flor Sli VS Stn -NS

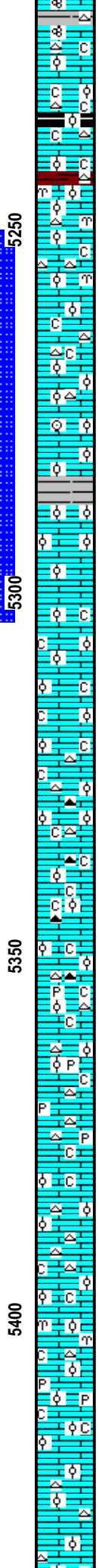
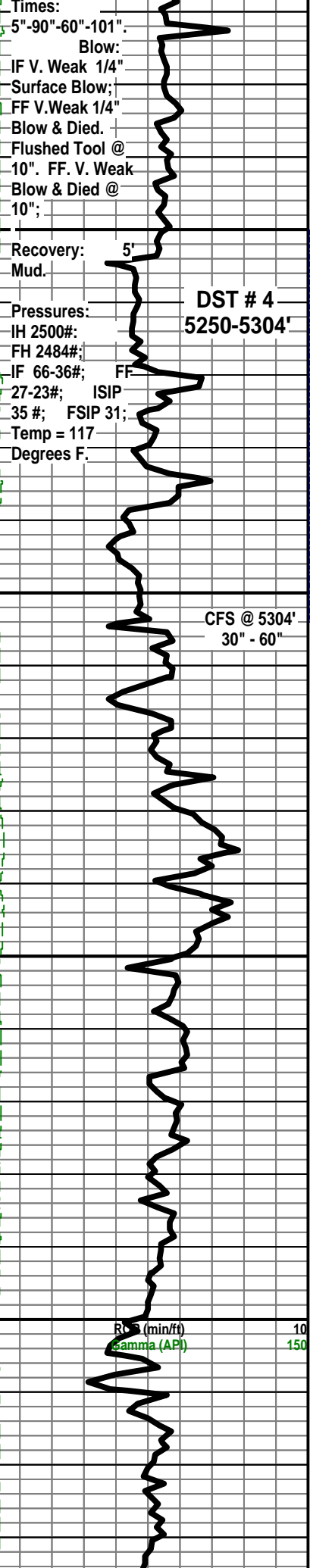
Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn "Sandy Ls" CaCo3 Fgrn Friable Cht Org Op-Transl Op Shp Vit Tr Chalk Sh Blk Carb (? Sluff) Char-Aqua-Grn Inc Fissil No Odor Sli Dec Scatt Stn Flor (Lt Grn)-No Stn Flor Sli VS Stn -NS

? ST. LOUIS 5204' (-2383)

Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn "Sandy Ls" CaCo3 M-Fgrn Friable Cht Org-Tan Op-Transl Op Shp Vit Fos (Foram) Tr Chalk Sh Blk Aqua-Grn Inc Tr Char Fissil No Odor No Stn Flor NS



TG, C1-C4
Gas
5220
TIME
Resp
10 U



? ST. LOUIS "B" BENCH MARKER 5222' (- 2401)

Ls Wht FxIn Grad Gran Por w/ Fair Igran FxIn Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb-Aqua-Grn Inc Fissil No Odor No Stn Flor NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Cht Org-Tan Op-Transl Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht FxIn Grad Gran Por w/ Fair Igran FxIn Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb Aqua-Grn Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) N

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Fos (Bryoz) Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb- Aqua-Grn Red Inc Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Fos (Bryoz) Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb- Aqua-Grn Red Inc Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Cht Tan Inc Op-Transl Op Shp Vit Tr Fos (Crin) Chalk Sh Aqua-Grn-Red-Char Fissil Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr Abd OOL im pl w/ Poor-Fair InterOOL Por M-Fgrn Cht Tan-Amber Op-Transl Op Shp Vit Tr Fos (Bryoz) Chalk Sh Aqua-Grn-Red-Char AA Fissil Faint Inc Odor Sli ? Min Flor (Dull- Lt Grn) ? NS

30" CFS Ls Wht MxIn Good OOL Por w/OOL in pl w/Med-Good InterOOL Por w/ Fair to Good SG/SO (Few Pcs) Soft Easily Broken w/Scat Stn Around OOL Chalk Sh Aqua-Grn-Red-Char AA Fissil Faint Odor AA Sli Scat Flor (Lt Grn) Gas/Oil Flor (Lt Grn) Fair-Good SO/SG

60" CFS Ls Wht MxIn Dec OOL Por w/OOL in pl w/Fair-Med InterOOL Por w/ Tr SG/SO (Few Pcs) w/Scat Stn Around OOL Dec Stn Chalk Sh Aqua-Grn-Red-Char AA Fissil Faint Odor AA Sli Scat Flor (Lt Grn) Gas/Oil Flor (Lt Grn) Fair Dec SO/SG

Ls Wht F-MxIn Dec OOL Por w/Abd OOL in pl w/Poor InterOOL Por w/ Poor- No Dis Cht Gry Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char AA Fissil No Odor No Flor NS

Ls Wht-Gry F-MxIn Dec OOL Por w/Abd OOL in pl w/Poor InterOOL Por w/ Poor- No Dis Inc FxIn Micrite Barren Cht Clear-Gry Transl-Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char AA Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Micrite Barren Tr Gran AA w/Tr Small OOL Por-Poor InterOOL Por No Dis Cht Gry-Org Transl-Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char AA Fissil No Odor ? Min Flor (1 Pcs Sh w/ Qts Ss Includ w/ Hvy Golden Stn (1 Edge) (? Sluff) - No Flor (Rest of Tray) NS

Ls Wht-Crm-Gry FxIn Micrite Barren Tr Gran AA w/Tr Small OOL Por-Poor InterOOL Por No Dis Cht Gry-Org Transl-Op Shp Vit Tr Chalk Sh Gry-Char-Grn-Red-Char AA Fissil No Odor NS

Ls Wht-Crm-Gry Gran AA w/Tr Small OOL Por-Poor InterOOL Por No Dis FxIn Micrite Barren w/Py Includ Cht Tan-Tr Org Transl-Op Tr/Frac Por Shp Vit Tr Chalk Sh Gry-Char-Grn-Red-Char AA Fissil No Odor NS

Ls Wht-Crm-Gry FxIn Dns Mccritie Grad F-Igran Small OOL Por Poor -Fair InterOOL Por Barren w/Py Includ Cht Tan Transl-Op Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

Ls Wht-Crm-Gry FxIn Dns Mccritie Grad F-Igran Small OOL Por Poor -Fair InterOOL Por Barren w/Py Includ Cht Tan Transl-Op Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mccritie Grad F-Igran V Small OOL Por Poor -Fair InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

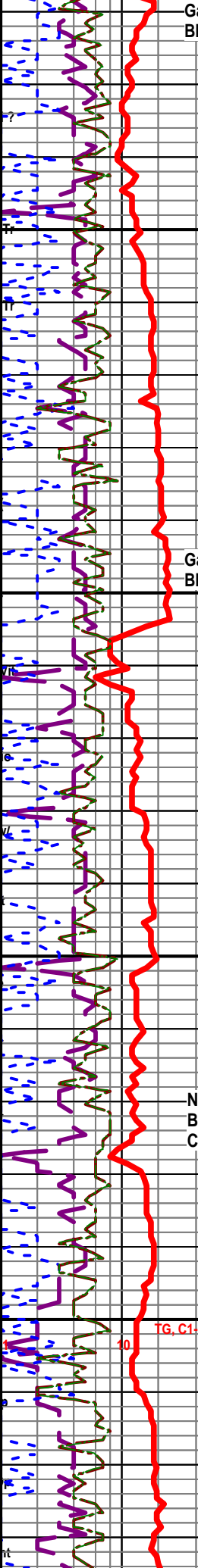
Ls Wht-Gry FxIn Dns Mccritie Grad F-Igran V Small OOL Por Poor -Fair InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

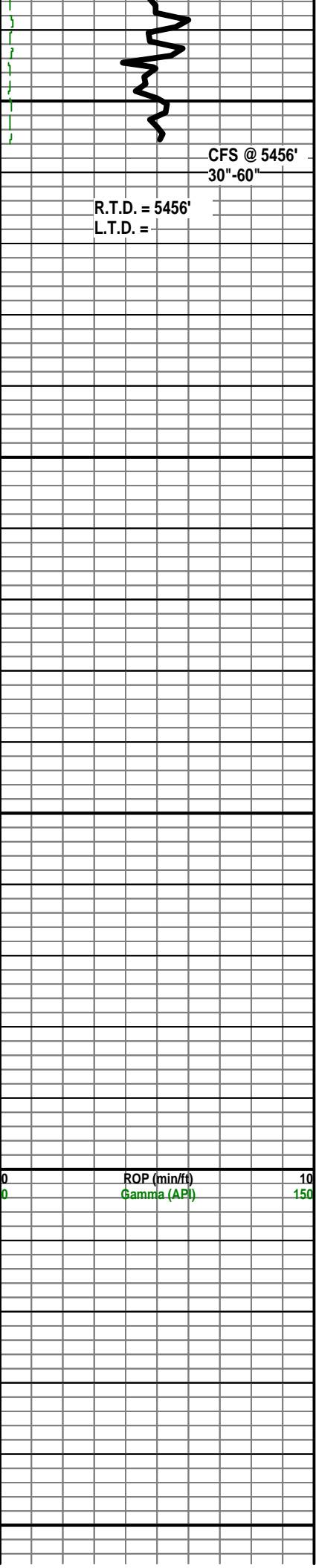
Ls Wht-Gry FxIn Dns Mccritie Grad F-Igran V Small OOL Por Poor -Fair InterOOL Por Barren Fos (Bryoz) Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Gry-Char-Aqua Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mccritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Char w/Py Includ-Aqua Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mccritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Char-Aqua Red Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mccritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren ? Tr Dolo-Gry-Wht FxIn Dns Cht Gry Transl-Op Por Shp Vit Tr Chalk Sh Char-Yell- Red Fissil No Odor No Flor NS





5450
5500
5550
5600
5650

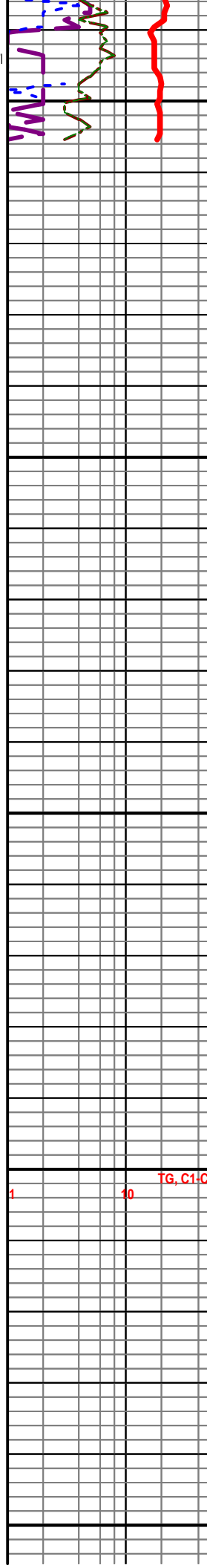
CFS @ 5456'
30"-60"

R.T.D. = 5456'
L.T.D. =

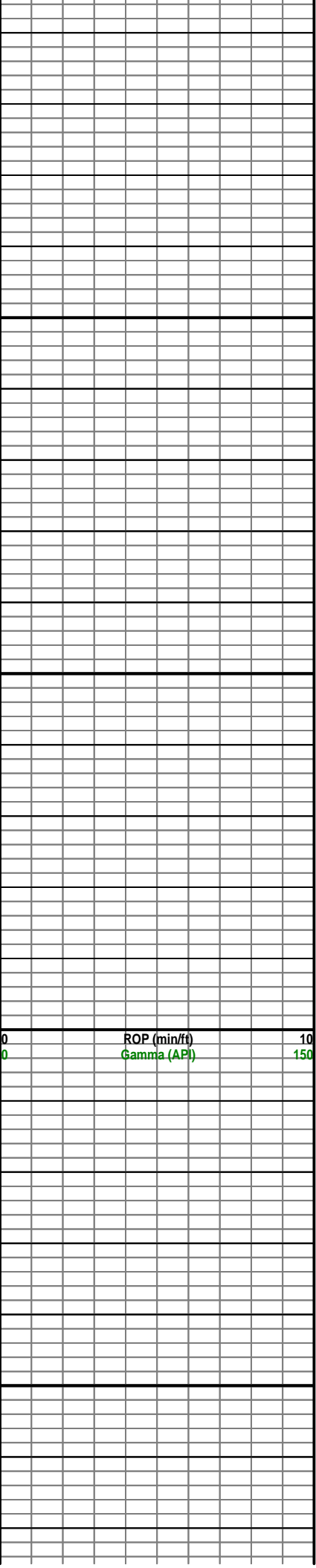
ROP (min/ft) 10
Gamma (API) 150

30" CFS Ls Wht-Gry Fxln Dns Mcritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren Cht
Wht-Gry Transl-Op Por Shp Vit w/Fos (Crin) Includ Tr Chalk Sh Char-Yell-Aqua Fissil No Odor No FI
NS

60" CFS



TG, C1-C
1 10



5700

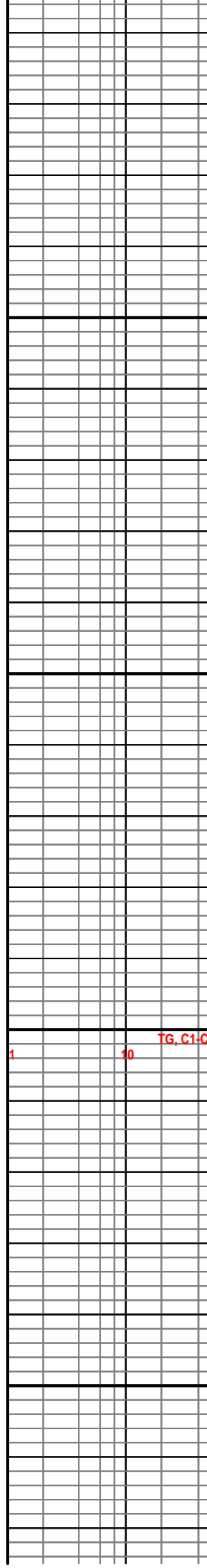
5750

5800

5850

ROP (min/ft)
Gamma (API)

10
150



TG, C1-C

10

