

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MAE 4-10
Doc ID	1454151

All Electric Logs Run

ANNULAR HOLE VOLUME LOG 5 CASING
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
ARRAY RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON BOREHOLE SONIC QUAD COMBO LOG
BOREHOLE COMPENSATED SONIC LOG
MICROLOG
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	MAE 4-10
Doc ID	1454151

Tops

Name	Top	Datum
STONE CORRAL	1844	
HUTCHINSON SALT	2311	
CHASE GROUP	2537	
COUNCIL GROVE	2845	
WABUNSEE	3196	
TOPEKA	3606	
HEEBNER	4015	
TORONTO	4037	
LANSING	4126	
IOLA	4275	
SWOPE	4489	
MARMATON	4644	
PAWNEE	4741	
CHEROKEE	4795	
MORROW	5021	
CHESTER	5119	
ST GENEVIEVE	5187	





Job Number: 18-019

State/Country: Kansas, USA

Company: Merit Energy

Declination: 5.76

Lease/Well: Mae 4-10

Grid: 1.49

Location: NW NE Sec. 10 T25S R33W 6th P.M.

File name: C:\WINSERVE\MAE4-10.SVY

Rig Name: Duke 9

Date/Time: 19-Nov-18 / 12:57

RKB:

Curve Name: Mae 4-10 as drilled

G.L. or M.S.L.: GL

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 133.60  
 Vertical Section Referenced to Wellhead  
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
307.00	.20	324.20	307.00	.43	-.31	-.53	.54	324.20	.07
458.00	.80	344.20	457.99	1.66	-.75	-1.69	1.83	335.59	.41
582.00	.90	347.00	581.98	3.44	-1.21	-3.25	3.65	340.65	.09
678.00	1.10	339.30	677.96	5.04	-1.70	-4.71	5.32	341.32	.25
772.00	1.00	340.70	771.95	6.66	-2.29	-6.25	7.04	340.99	.11
865.00	.90	342.00	864.94	8.12	-2.79	-7.62	8.59	341.05	.11
959.00	1.20	344.40	958.92	9.77	-3.28	-9.11	10.31	341.43	.32
1052.00	1.10	339.30	1051.90	11.54	-3.86	-10.75	12.17	341.51	.15
1147.00	1.10	341.50	1146.88	13.26	-4.47	-12.38	13.99	341.37	.04
1242.00	.90	333.10	1241.87	14.79	-5.10	-13.89	15.64	340.98	.26
1335.00	.50	326.50	1334.86	15.78	-5.65	-14.98	16.76	340.29	.44
1429.00	.60	310.60	1428.86	16.44	-6.25	-15.87	17.59	339.18	.19
1523.00	.60	301.50	1522.85	17.02	-7.05	-16.84	18.42	337.51	.10
1616.00	.80	305.40	1615.85	17.65	-7.99	-17.96	19.38	335.65	.22
1711.00	1.00	308.30	1710.83	18.55	-9.18	-19.44	20.70	333.67	.22
1854.00	.90	298.10	1853.81	19.85	-11.15	-21.77	22.77	330.68	.14
1947.00	1.00	194.60	1946.81	19.41	-12.00	-22.08	22.82	328.27	1.61
2041.00	4.10	150.70	2040.71	15.68	-10.56	-18.46	18.91	326.04	3.67
2136.00	7.10	148.50	2135.24	7.72	-5.83	-9.54	9.67	322.92	3.17
2232.00	9.80	139.00	2230.20	-3.51	2.63	4.33	4.39	143.16	3.16
2326.00	13.30	128.40	2322.29	-16.27	16.36	23.07	23.07	134.85	4.34
2421.00	16.80	129.00	2414.02	-31.70	35.60	47.64	47.67	131.69	3.69
2516.00	20.60	131.30	2503.99	-51.38	58.83	78.04	78.11	131.13	4.07
2611.00	24.70	131.60	2591.64	-75.60	86.24	114.59	114.69	131.24	4.32
2657.00	24.60	131.30	2633.45	-88.30	100.62	133.76	133.87	131.27	.35

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth			Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				N-S FT	E-W FT		Distance FT	Direction Deg	
2751.00	24.70	130.20	2718.88	-113.89	130.32	172.92	173.07	131.15	.50
2845.00	24.50	131.20	2804.35	-139.40	159.99	211.99	212.20	131.07	.49
2940.00	24.10	131.30	2890.94	-165.18	189.38	251.06	251.30	131.10	.42
3085.00	23.10	131.20	3023.81	-203.46	233.02	309.06	309.34	131.12	.69
3178.00	22.50	132.80	3109.54	-227.56	259.81	345.08	345.38	131.22	.93
3269.00	23.10	135.20	3193.43	-252.06	285.16	380.33	380.60	131.47	1.22
3363.00	24.10	135.10	3279.57	-278.74	311.70	417.95	418.16	131.80	1.06
3457.00	23.40	133.80	3365.61	-305.26	338.72	455.80	455.98	132.03	.93
3551.00	24.60	134.90	3451.48	-331.99	366.05	494.03	494.18	132.21	1.36
3646.00	24.20	135.70	3537.99	-359.88	393.66	533.26	533.37	132.43	.55
3741.00	23.90	135.80	3624.75	-387.61	420.68	571.95	572.02	132.66	.32
3836.00	23.70	135.80	3711.67	-415.10	447.40	610.26	610.31	132.85	.21
3931.00	23.40	135.00	3798.76	-442.12	474.05	648.19	648.23	133.00	.46
4026.00	23.40	134.60	3885.94	-468.71	500.82	685.91	685.94	133.10	.17
4120.00	23.00	136.20	3972.34	-495.07	526.83	722.92	722.94	133.22	.79
4213.00	24.10	135.50	4057.60	-521.73	552.71	760.05	760.06	133.35	1.22
4307.00	23.80	135.10	4143.50	-548.85	579.55	798.19	798.19	133.44	.36
4401.00	23.20	134.90	4229.71	-575.35	606.05	835.66	835.66	133.51	.64
4496.00	23.70	135.60	4316.86	-602.20	632.67	873.45	873.45	133.59	.60
4590.00	22.90	133.50	4403.19	-628.29	659.15	910.62	910.62	133.63	1.23
4685.00	23.10	132.20	4490.64	-653.53	686.37	947.74	947.74	133.60	.57
4780.00	23.60	130.60	4577.86	-678.43	714.61	985.36	985.36	133.51	.85
4874.00	24.80	128.40	4663.60	-702.92	744.35	1023.78	1023.79	133.36	1.60
4969.00	23.70	127.70	4750.22	-726.97	775.07	1062.62	1062.65	133.17	1.20
5065.00	22.60	127.20	4838.49	-749.92	805.03	1100.14	1100.21	132.97	1.16
5160.00	21.60	128.10	4926.51	-771.75	833.33	1135.69	1135.80	132.80	1.11
5296.00	19.60	129.10	5053.80	-801.58	870.74	1183.35	1183.52	132.63	1.49
<b>Projection to TD</b>									
5351.00	19.60	129.10	5105.62	-813.22	885.05	1201.74	1201.93	132.58	.00



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002716	1718	11/27/2018
INVOICE NUMBER			
92853301			

Pratt (620) 672-1201  
 B MERIT ENERGY  
 I PO BOX 250  
 L HOLCOMB  
 L KS US 67851  
 T  
 O ATTN: ALISHA

J LEASE NAME Mae 4-10  
 O LOCATION  
 B COUNTY Finney  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E Set @1783

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41146699	19570		Net - 30 days	12/27/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/15/2018 to 11/15/2018</i>				
0041146699				
171817187L Cement-New Well Casing/Pi 11/15/2018 Cement Surface Casing/AFE#62347				
A-Con' Blend	510.00	EA	13.95	7,114.50
Premium Plus Cement	165.00	EA	12.23	2,017.95
Celloflake	338.00	LB	2.78	939.64
Calcium Chloride	1,752.00	LB	0.79	1,384.08
Guide Shoe - Regular, 8 5/8" (Blue)	1.00	EA	380.00	380.00
Flapper Type Insert Float Valves. 8 5/8"	1.00	EA	280.00	280.00
Centralizer, 8 5/8" (Blue)	6.00	EA	90.00	540.00
Top Rubber Cement Plug, 8 5/8"	1.00	EA	225.00	225.00
"Unit Mileage Chg (PU, cars one way)"	80.00	MI	3.38	270.40
Heavy Equipment Mileage	240.00	MI	5.63	1,351.20
Proppant & Bulk Del. Chgs., per ton mil	2,544.00	EA	1.88	4,782.72
Blending & Mixing Service Charge	675.00	SK	1.05	708.75
Plug Container Utilization Charge	1.00	EA	187.50	187.50
Depth Charge; 1001'-2000'	1.00	EA	1,125.00	1,125.00
Cement Data Acquisition Monitor	1.00	EA	412.50	412.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25
Additional Discount Per Agreement	1.00	EA	2,185.05	2,185.05

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	19,665.44
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	910.77
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	20,576.21
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		







Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING Job Log**

Customer:	Merit Energy	Cement Pump No.:	38119-19570 8 HRS	Operator TRK No.:	96815		
Address:	gardencity.invoices@meritenergy.com	Ticket #:	1718-17187 L	Bulk TRK No.:	14354-19578	14355-37724	
City, State, Zip:	AFE# 62347	Job Type:	Z42 - Cement Surface Casing				
Service District:		Well Type:	OIL				
Well Name and No.:	MAE 4-10	Well Location:	10,25,33	County:	Finney	State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-CON BLEND	510	3%CaCl, 1/2#POLYFLAKE	14354-19578	Front	Back
PREMIUM PLUS	165	2%CaCl, 1/2#POLYFLAKE	14355-37724	Front	Back
				Front	Back

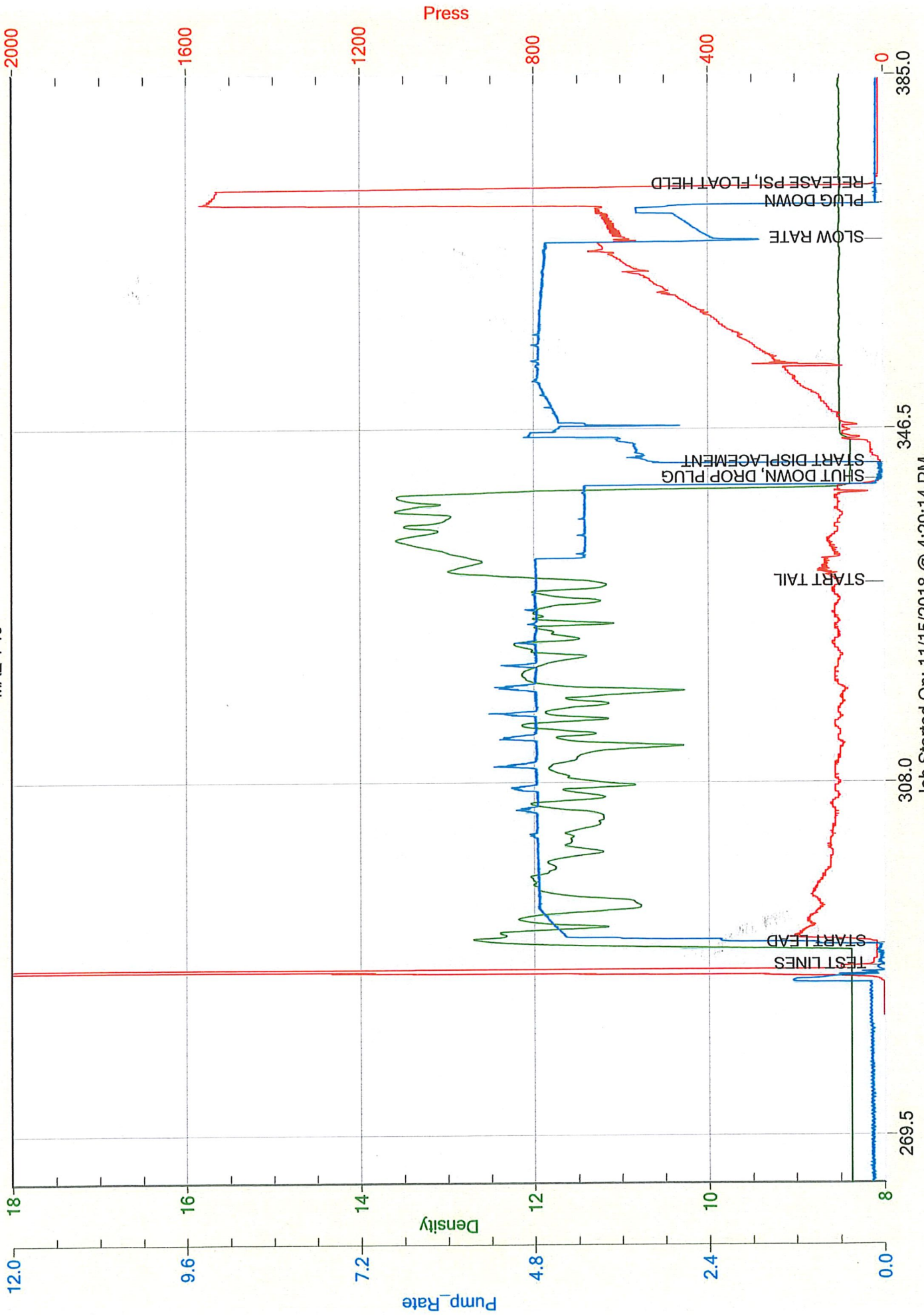
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	12.1	2.41	14	1229.1	Man Hours:	50
<b>Tail:</b>	14.8	1.35	6.32	222.75	# of Men on Job:	4

Time (am/pm)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
		T	C	Tubing	Casing	
11:30						ON LOC, SAFTEY MTG, R.U.
18:10					2000	TEST LINES
6:14 PM	4.5				200	START MIXING @ 12.1#
6:54 PM	4.9	219			100	ON TAIL @ 14.8#
7:05 PM		40				SHUT DOWN, DROP PLUG
19:07	4.9				80	START DISPLACEMENT, WASHUP
19:28	2.4	101			620	SLOW RATE
7:35 PM		111			800-1540	PLUG DOWN
19:38						RELEASE PSI, FLOAT HELD
						JOB COMPLETE
						THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth	1793'		TYPE	
Size & Wt. Csg.	8 5/8 24	Depth	1783'	New / Used	Packer	Depth
lbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:		Basic Representative:	CHAD HINZ
		Basic Signature:	
		Date of Service:	11/15/2018

MERIT  
MAE 4-10



Job Started On: 11/15/2018 @ 4:29:14 PM



PAGE 1 of 1	CUST NO 1002716	YARD # 1718	INVOICE DATE 11/27/2018
<b>INVOICE NUMBER</b> <b>92854318</b>			

Pratt (620) 672-1201  
 B MERIT ENERGY  
 I PO BOX 250  
 L HOLCOMB  
 L KS US 67851  
 T  
 O ATTN: ALISHA

J LEASE NAME Mae 4-10  
 O LOCATION  
 B COUNTY Finney  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT Set @ 5349  
 E RH 50SX

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41146803	19572		Net - 30 days	12/27/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/20/2018 to 11/20/2018</i>				
0041146803				
171817163L Cement-New Well Casing/Pi 11/20/2018 Mae # 4-10/AFE#62347				
50/50 POZ	195.00	EA	8.25	1,608.75 T
60/40 POZ	50.00	EA	9.00	450.00 T
Gypsum	984.00	LB	0.56	551.04 T
C-17	82.00	LB	15.00	1,230.00 T
C-41P	41.00	LB	3.00	123.00 T
Celloflake	49.00	LB	2.78	136.22 T
Gilsonite	975.00	LB	0.50	487.50 T
Salt	1,168.00	LB	0.38	443.84 T
Cement Gel	86.00	LB	0.25	21.50 T
Mud Flush	500.00	GAL	1.13	565.00 T
5 1/2" Float Shoe(Blue)	1.00	EA	425.00	425.00 T
5 1/2" Float Collar(Blue)	1.00	EA	420.00	420.00 T
Centralizer, 5 1/2" (Blue)	20.00	EA	80.00	1,600.00 T
Top Rubber Cement Plug, 5 1/2"	1.00	EA	105.00	105.00 T
"Unit Mileage Chg (PU, cars one way)"	80.00	MI	3.38	270.40 T
Heavy Equipment Mileage	160.00	MI	5.63	900.80 T
Proppant & Bulk Del. Chgs., per ton mil	828.00	EA	1.88	1,556.64 T
Blending & Mixing Service Charge	245.00	SK	1.05	257.25 T
Plug Container Utilization Charge	1.00	EA	187.50	187.50 T
Depth Charge; 5001-6000'	1.00	EA	2,160.00	2,160.00 T
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25 T
Additional Discount Per Agreement	1.00	EA	1,363.07-	1,363.07-

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,267.62
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	TAX	446.54
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,714.16
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



1700 S. Country Estates Raod  
 Liberal, KS 67901  
 PH (620)-624-2277/FAX (620) 624-2280

SERVICE ORDER - 1718-17163L

Date: 11/20/2018

TMA 24

Well Name: MAE 4-10 Location: 10,25,33  
 County - State: Finney, Ks RRC #:  
 Type Of Service: Z42 - Cement Production Casing Customer's Order #:  
 Customer: Merit Energy

Address: gardencity.invoices@meritenergy.com  
 AFE# 62347

As a consideration, the above named Customer agrees to pay Basic Energy Services in accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services, warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services, option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
CL104	195	Sk	50/50 POZ	11.00	2145.00
CL103	50	Sk	60/40 POZ	12.00	600.00
CC113	984	Lb	Gypsum	0.75	738.00
CC148	82	Lb	C-17	20.00	1640.00
CC105	41	Lb	C-41P	4.00	164.00
CC102	49	Lb	Celloflake	3.70	181.30
CC201	975	Lb	Gilsonite	0.67	653.25
CC111	1168	Lb	Salt	0.50	584.00
CC200	86	Lb	Cement Gel	0.25	21.50
CF851	1	Ea	5 1/2" Float Shoe(Blue)	425.00	425.00
CF951	1	Ea	5 1/2" Float Collar(Blue)	420.00	420.00
CF1751	20	Ea	Centralizer, 5 1/2" (Blue)	80.00	1600.00
CF103	1	Ea	Top Rubber Cement Plug, 5 1/2"	105.00	105.00
CC151	500	Gal	Mud Flush	1.50	750.00
E101	160	Mi	Heavy Equipment Mileage	7.50	1200.00
CE240	245	Sk	Blending & Mixing Service Charge	1.40	343.00
E113	828	Tn/Mi	Proppant and Bulk Delivery Charges, per ton mile	2.50	2070.00
CE206	1	4 Hrs	Depth Charge; 5001-6000'	2880.00	2880.00
CE504	1	Job	Plug Container Utilization Charge	250.00	250.00
E100	80	Mi	Unit Mileage Charge-Pickups, Small Vans & Cars (one way)	4.50	360.00
S003	1	Ea	Service Supervisor, first 8 hrs on loc.	175.00	175.00
		Ea	Cement Data Acquisition Monitor / Strip Chart Recorder	550.00	
			Well <u>MAE 4-10</u>		
			AFE <u>62347</u>		
			GL <u>83001075</u>		
			Office <u>Garden City</u>		
			Date <u>11-20-18</u>		

Book Total: \$17,305.05  
 Taxes:  
 Disc. Price: \$14,042.19  
 10% Disc: \$1,404.22  
 Adjusted Price: \$12,638.87

Additional 10% Discount as per Agreement on Cement Services

13,366.69  
 1,323.07  
 12,227.62  
 DLS

PUMP TRUCK NUMBER: 37223-19572  
 DRIVER: Mark  
 BASIC ENERGY SERVICES

THIS JOB WAS SATISFACTORILY COMPLETED  
 OPERATION OF EQUIPMENT WAS SATISFACTORY  
 PERFORMANCE OF PERSONEL WAS SATISFACTORY

YES  NO

Koelny  
 CUSTOMER OR HIS AGENT

T.O

Customer Comments or Concerns:  
Good Job!



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING**

**Job Log**

Customer:	Merit Energy	Cement Pump No.:	37223-19572	1.5hr	Operator TRK No.:	21884
Address:	gardencity.invoices@meritenergy.com	Ticket #:	1718-17163L	Bulk TRK No.:	70897-37725	
City, State, Zip:	AFE# 62347	Job Type:	Z42 - Cement Production Casing			
Service District:	1718-LIBERAL KS	Well Type:	OIL			
Well Name and No.:	MAE 4-10	Well Location:	10,25,33	County:	Finney	State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
50/50 poz	195	6% w-60, 10% salt, 5% c-17, 1/4#c-41, 5# gilsonite, 1/4# poly	70897-37725	Front	Back
60/40 poz	50	4% gel	70897-37725	Front	Back
				Front	Back

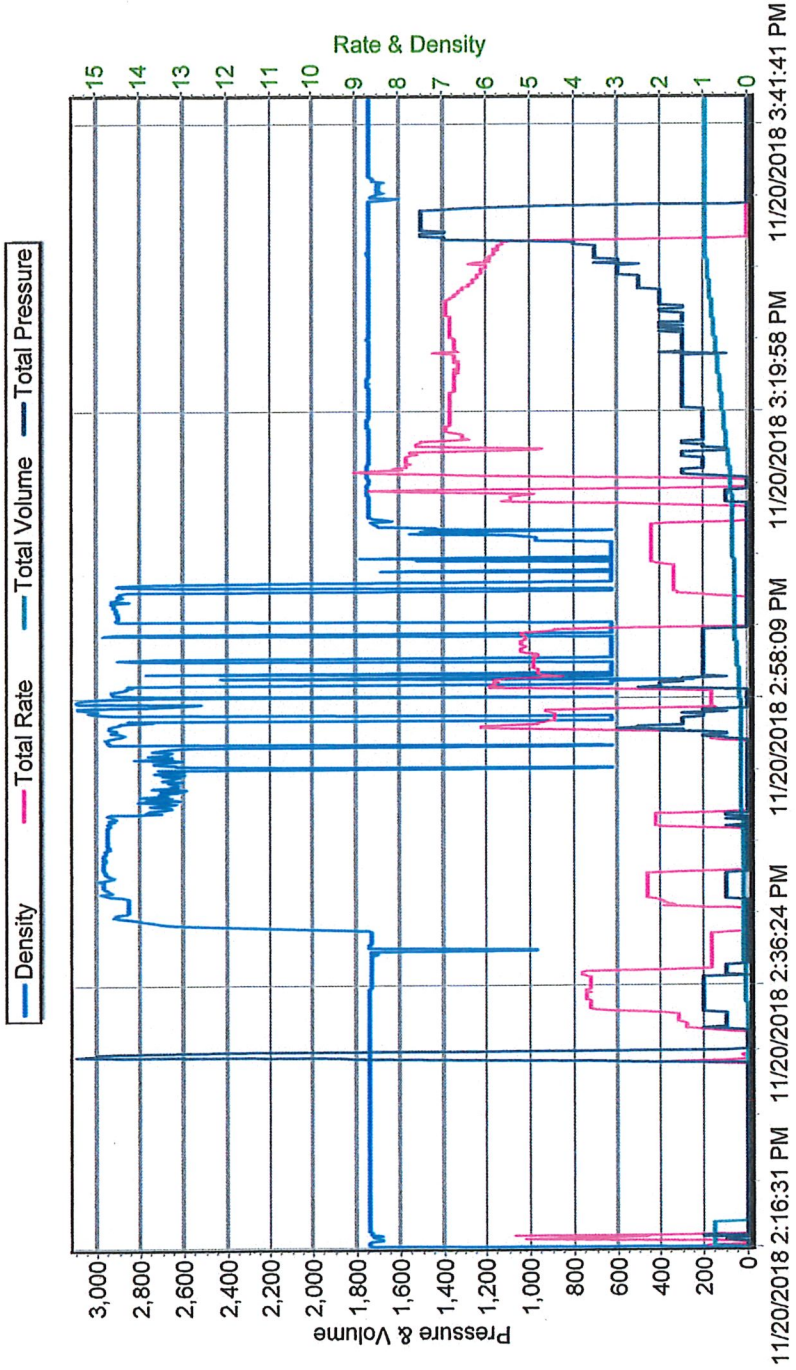
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	13.6	1.57	7.18	306.15	Man Hours:	24
<b>Tail:</b>				50	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
8am							CALLER FOR JOB
12pm							ON LOC RIG RUNNING CASING
115PM							CASING ON BOTTOM HOOK UP PC & CIRC IRON
125PM							BREAK CIRC WITH RIG
225PM							THRU CIRC HOOK LINES TO PT
229PM				X		3000	TEST LINES
232PM	5	12		X		200	PUMP MUD FLUSH
241PM		13					SHUT DOWN AND PLUG RAT AND MOUSE
256PM	6	54.5				200	PUMP 190SX 50/50 POZ @ 13.6#
305							SHUT DOWN DROP PLUG & WASH UP
310PM		123		X			PUMP DISPLACEMENT
330PM		123		X		200-400	100 BBLs IN LIFT CEMENT
		123		X			
333	5	123		X		600-1400	LAND PLUG
335PM				X		1400-0	RELEASE PSI ---- FLOAT HELD
345PM							JOB OVER

Size Hole	7 7/8	Depth	5350		TYPE	
Size & Wt. Csg.	5. 175	Depth	5349	NEW	Packer	Depth
lbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	Basic Representative:	Tyce Davis
	Basic Signature:	
	Date of Service:	11/20/2018

# MERIT MAE 4-10 PRODUCTION





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

Well Name: MAE 4-10  
 Well Id:  
 Location: Sec 10 T25s R33w, Finney County, Kansas  
 License Number: 15055-22506-0100  
 Spud Date: 11/14/18  
 Surface Coordinates: 2472 FEL 444 FNL  
 SW NW NW SE  
 Bottom Hole Coordinates:  
 Ground Elevation (ft): 2899' K.B. Elevation (ft): 2912'  
 Logged Interval (ft): 3900' To: 5351' Total Depth (ft): 5351'  
 Formation: Morrow, Chester  
 Type of Drilling Fluid: Natural Chemical

Region: Wildcat  
 Drilling Completed: 11/19/18

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

OPERATOR

Company: MERIT ENERGY CO.  
 Address: 13727 NOEL ROAD, # 1200 Tower 2  
 DALLAS, TX 75240  
 Co. Geo: Mr .Daniel Zobaldano

GEOLOGIST

Name: Aaron Suelter  
 Company: Earth Tech OGL, Inc  
 Address: PO Box 683  
 Hooker, Oklahoma 73945  
 Off: 888-543-8378 Cell: 620-600-0777

ROCK TYPES

Anhy  
 Bent  
 Brec  
 Cht  
 Clyst  
 Coal  
 Congl  
 Dol

Gyp  
 Igne  
 Lmst  
 Meta  
 Mrlst  
 Salt  
 Shale  
 Shcol

Shgy  
 Sltst  
 Ss  
 Till  
 Carb sh  
 Dol  
 Dtd  
 Gry sh

Sandylms  
 Shale  
 Sltstn  
 Shlyslts  
 Sltysh  
 Lms



## ACCESSORIES

### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

### STRINGER

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

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

### TEXTURE

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

## OTHER SYMBOLS

### POROSITY TYPE

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

### SORTING

- Well
- Moderate
- Poor

### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

### OIL SHOWS

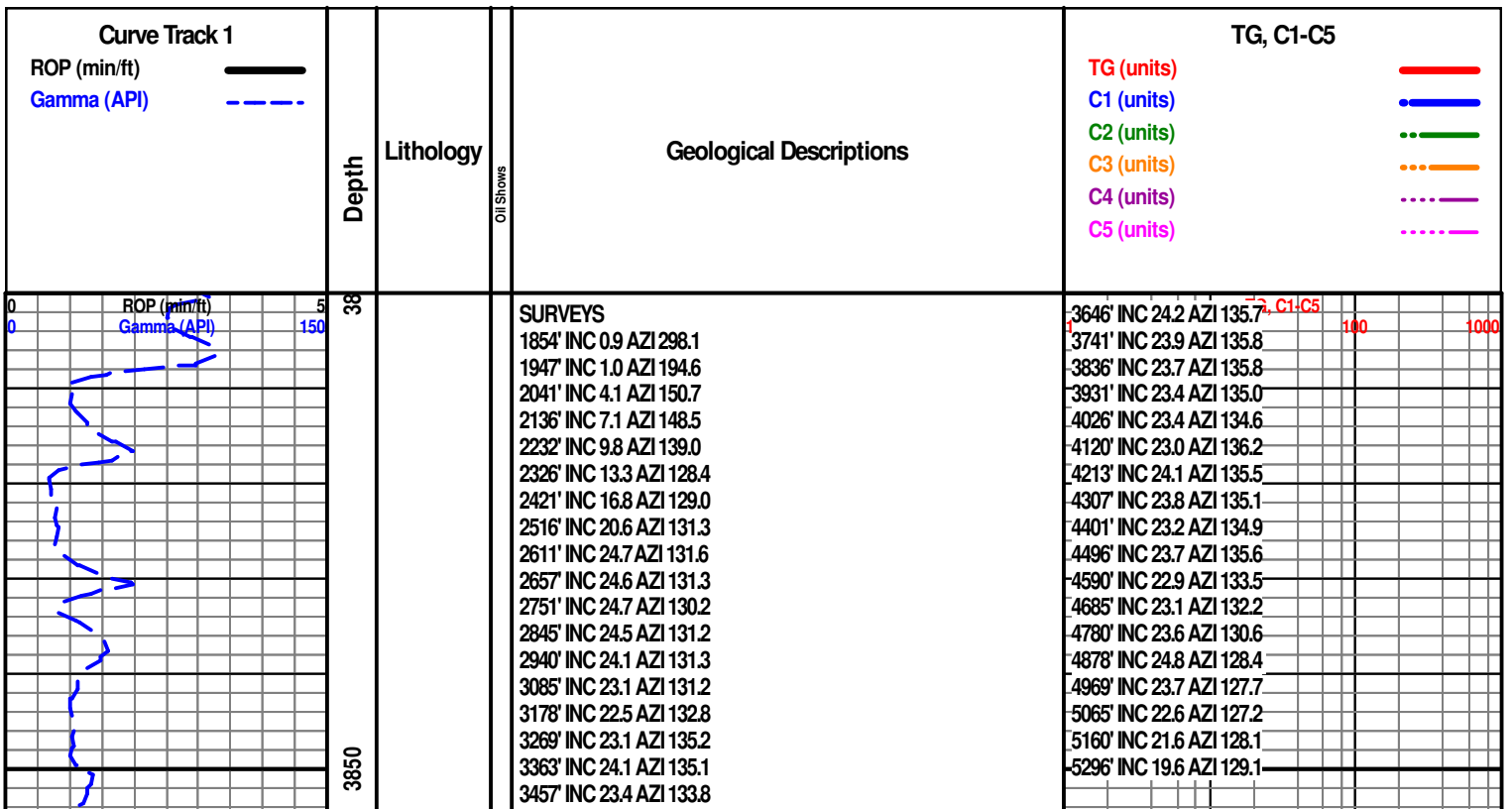
- Even
- Spotted
- Ques
- Dead
- Gas show

### INTERVALS

- Core
- Dst
- Dst

### EVENTS

- Rft
- Sidewall



BIT #2778"  
SMITH  
XS616  
SER. JP1967  
JETS 6-18'S  
IN @ 1793'

UNIT RIGGED UP 11/16/18

MUDLOGGER ON LOCATION 11/17/18

SAMPLES START @ 3:00 AM 11/18/18

ROP

WOB 18.3  
RPM 78  
PP 1668

WT 9.2  
VIS 60  
LCM 4

SLIDING  
3987'-3993'

ROP (min/ft)  
Gamma (API)

WOB 15.6  
RPM 82  
PP 1722

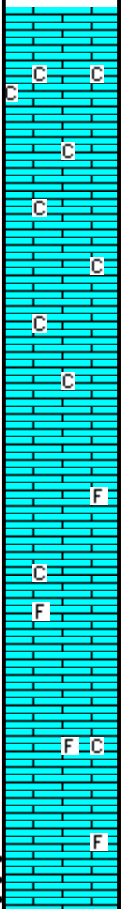
WT 9.2  
VIS 60  
LCM 4

3900

3950

4000

4050



LS- LT TN TO TN, HD DNS TO V/ BRIT, FN XLN MTRX, S-CHLKY, ABLT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, FN XLN MTRX, RE-XLN IP, TR S-CHLKY, TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

**HEEBNER**

MD/ 3870' TVD/ -958 SS  
SH- BLCK, SFT TO FRM BLKY, SILTY TXT, CARB

**TORONTO**

MD/ 3885' TVD/ -973' SS  
LS- OFF WHT TO CRM, HD DNS TO SFT IP, FN TO MD XLN SUCRO MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, SLI TR OFF WHT TO LT TN CHRT IN TRAY, SFT WHT CHLK THRU TRAY, BRT YEL MIN FLO IN 40%, NO VIS POR, NO VIS SHOW

SH- LT GRV GRVRED TO BRWN, FRM BLKY, SMTH TO SLTY TXT

GAS

8 U. BG

9 U. BG

10 U. BG

9 U. BG

17 U. SH GAS

14 U. BG

11 U. BG

CN

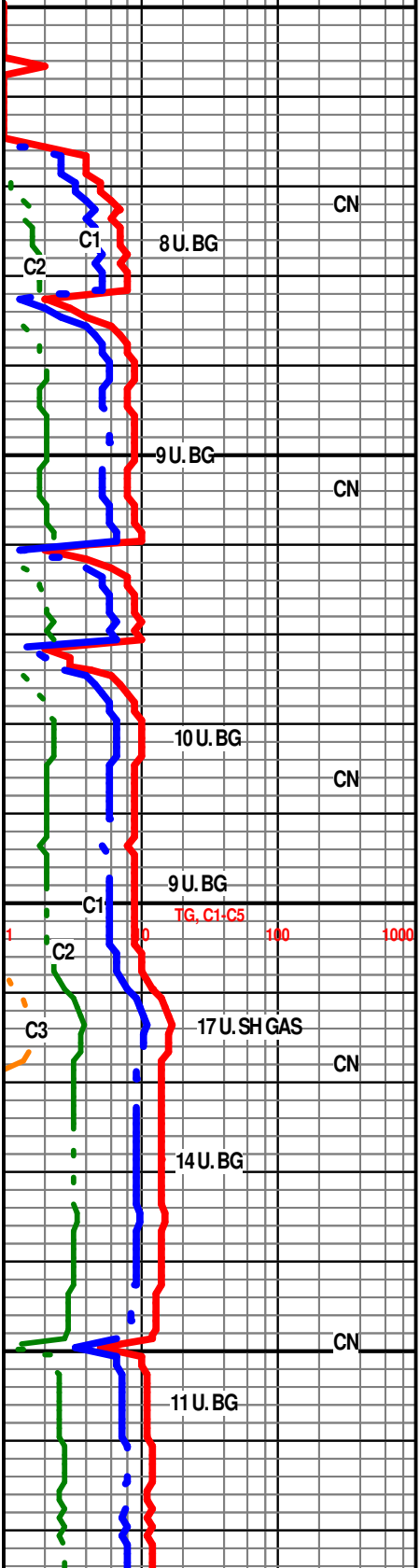
CN

CN

CN

CN

CN



SLIDING 4031-4038'

LS- LT TN TN TO LT GRAY IP, HD DNS, FN XLN MTRX, S-SUCRO IP, TR IMBD CALC XLS & FREE IN TRAY, TR FRSTY OFF WHT TO LT TN CHRT IN TRAY, DUL YEL FLO IN 30%, PR INTR XLN POR IP, NO VIS SHOW

12 U. BG CN

WOB 22.6  
RPM 80  
PP 1725

LS- LT TN TO TN, HD DNS TO BRIT, FN XLN MTRX, S-SUCRO IP, TR OFF WHT TO LT TN CHRT IN TRAY, DUL YEL FLO IN 20%, NO VIS POR, NO VIS SHOW

8 U. BG CN

WT 9.2  
VIS 54  
LCM 3

LS- CRM LT TN TO TN, HD DNS TO BRIT, FN TO MD XLN MTRX, TR IMBD FOSS FRG SCAT IP, SLI TR FRSTY OFF WHT TO LT TN CHRT IN TRAY, ABDT SFT WHT CHLK IN TRAY, BRT YEL FLO IN 60%, NO VIS POR, NO VIS SHOW

7 U. BG CN

SLIDING 4175-4183'

SH- LT GRY GRYL TN TO BRWN, FRM TO SFT BLKY, SLTY TXT

9 U. BG CN

LS- LT TN TN TO GRY IP, HD DNS TO BRIT, FN TO MD XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, BRT YEL FLO IN 50%, NO VIS POR, NO VIS SHOW

11 U. BG CN

ROP (mft)  
Gamma (API)

WOB 18.6  
RPM 81  
PP 1799

SH- BRWN GRY TO DK GRY, FRM BLKY TO SPLNTY, SLTY TO GRNY TXT

TG, C1-C5  
100 1000

WT 9.2  
VIS 54  
LCM 3

LS- CRM LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, RE-XLN IP, TR S-CHLKY, SLI TR IMBD CALC XLS IP, TR LT TN TO TN CHRT IN TRAY, BRT YEL FLO IN 50%, NO VIS POR, NO VIS SHOW

13 U. BG CN

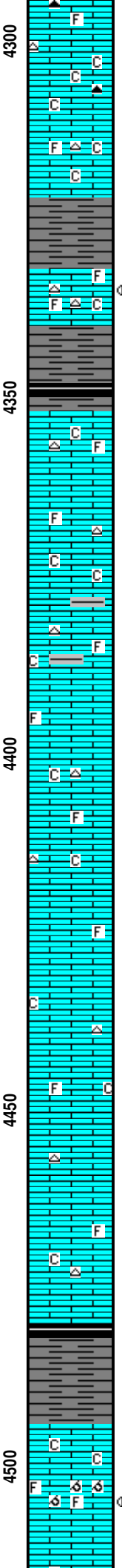
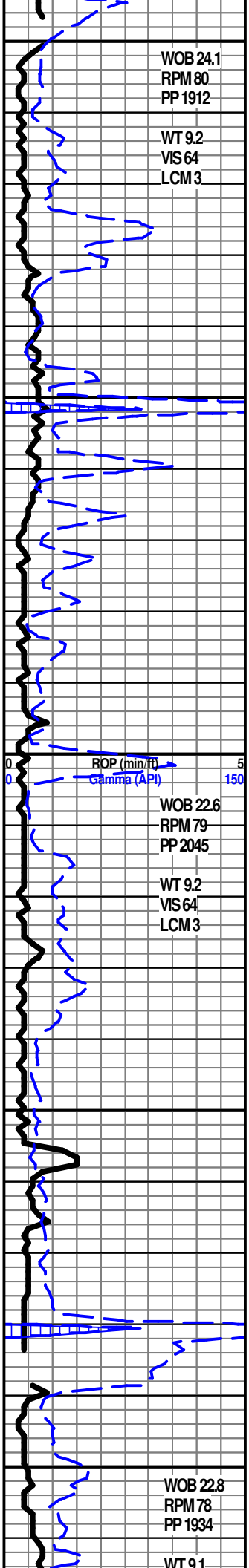
4250

LS- CRM LT TN TO TN, HD DNS TO BRIT, FN XLN MTRX, S-SUCRO, IMBD FOSS FRG SCAT IP, TR LT TN TO TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, BRT YEL FLO IN 40%, NO VIS POR, NO VIS SHOW

14 U. BG CN

SH- LT GRY TO GRY, FRM BLKY, SLTY TXT

17 U. BG CN



LS- CRM TO LT TN, HD DNS TO SFT, FN TO MD XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, SLI TR LT TN TN TO DK TN CHRT IN TRAY, BRT YEL FLO IN 30%, NO VIS POR, NO VIS SHOW

**DRUM**  
4332'  
MD/ 4168' TVD/ -1256' SS

4334'-4336' LS- OFF WHT LT TN TO TN (DUE TO OIL STN IN 50%), HD DNS TO BRIT, FN XLN MTRX, TR S-CHLKY, SLI TR IMBD FOSS FRG IP, FRSTY OFF WHT TO LT TN CHRT IN TRAY, DUL YEL GLD FLO IN 50% BRT YEL GLD FLO IN 10%, PR MICRO PP POR IP, PR INTR XLN POR IP, FR TO GD FLSH CUT IN 20%, GD MLKY BLU SLW STRM IN 40%, GD RNG CUT ON DISH, FR OIL ODOR

SH- LT GRY DK GRY TO BLK, FRM BLKY TO SPLNTY, SLTY TXT, CARB IP

LS- LT TN TN TO GRY IP, HD DNS TO SFT IP, FN XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG IP, TR IMBD GRY SH IP, OFF WHT TO LT TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, DUL YEL FLO IN 60%, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, V/HD DNS TO SFT IP, FN XLN MTRX, TR IMBD FOSS FRG IP, LT TN TO TN CHRT IN TRAY, SLI TR SFT WHT CHLK, DUL YEL FLO IN 70%, SLI TR MICRO VUG POR IP, NO VIS SHOW

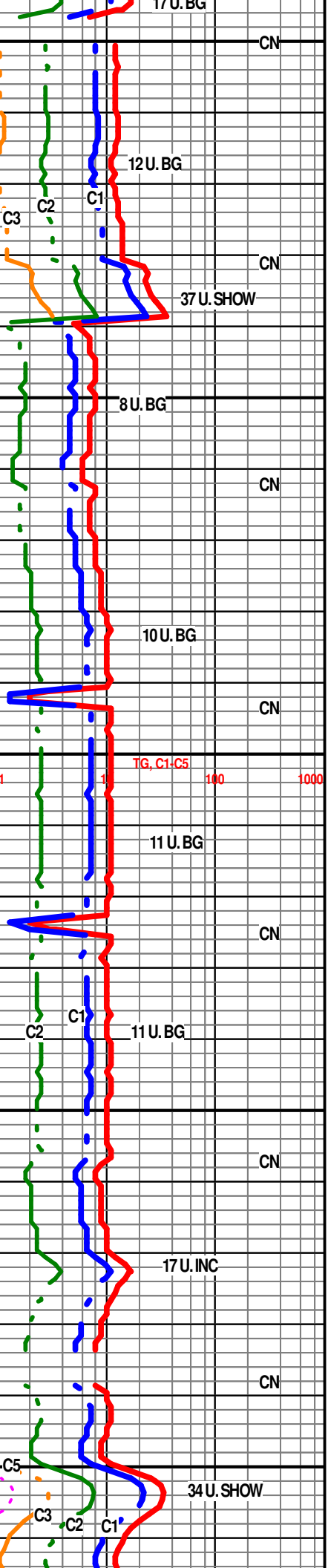
LS- TN TO DK TN, V/HD DNS TO SFT IP, FN XLN MTRX, TR IMBD FOSS FRG IP, LT TN TO TN CHRT IN TRAY, SLI TR SFT WHT CHLK, DUL YEL FLO IN 70%, SLI TR MICRO VUG POR IP, NO VIS SHOW

**STARK**  
4482' MD/ 4304' TVD -1392' SS

SH- GRY DK GRY TO BLCK IP, SFT BLKY, SLTY TXT

**SWOPE**  
4495'  
MD/ 4317' TVD/ -1405' SS

4503'-4506' LS- OFF WHT CRM LT TN (DUE TO OIL STN IN 30%), HD TO V/ BRIT, MD XLN RE-XLN MTRX, TR IMBD FOSS FRGS, V/ OOMLD IP, TR SFT WHT CHLK FREE, DUL YEL GLD FLO IN 40%, PR TO FR OOLMLD POR, PR INTER-XLN POR IP, MICRO VUG POR IP, FR TO GD FLSH CUT IN 20%, GD MLKY BLU SLW STRM



VIS 55  
LCM 4

POR IP, PR TO FR FLSH CUT IN 20%, FR MLKY BLU SLW STRM IN 40%, FR RNG CUT ON DISH, PR TO FR OIL ODOR

15 U. BG CN

SH- BLK, SFT, SLTY TXT, CARB

51 U. SH GAS

LS- LT TN TN TO DK TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, RE-XLN IP, IMBD FOSS FRG SCAT THRU, TR FRSTY OFF WHT TO LT TN CHRT IN TRAY, DUL YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

14 U. BG

SH- GRY TO DK GRY, FRM BLKY, SMTH TXT, TR IMBD PYR CLSTRS IP

LS- LT TN TN TO GRY, HD DNS, FN XLN SUCRO MTRX, TR IMBD FOSS FRG IP, FRSTY OFF WHT TO LT TN CHRT IN TRAY, DUL TO BRIT YEL FLO IN 60%, NO VIS POR, NO VIS SHOW

SH- GRY TO DK GRY, FRM BLKY, SMTH TO SLTY TXT

### MARMATON

4655' MD/ 4463' TVD/ -1551' SS

4685'-4687' (3 ROCKS) LS- LT TN TO TN (DUE TO OIL STAIN IN 70%, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 30%, FR INTR FOSS POR IP, FR TO GD MICRO VUG POR IP, GD FLSH CUT IN 40%, FR TO GD SLW STRM IN 60%, GD RING CUT ON DISH, GD OIL ODOR

130 U. SHOW

PITS CONTAMINATED

CARRYING HEAVIES

44 U. BG

SH- GRY DK GRY TO BRWN, FRM BLKY, SLTY TXT

25 U. BG

4726'-4730' LS- CRM LT TN TO TN (DUE TO OIL STN IN 40%), HD TO BRIT, FN XLN SUCRO MTRX, DUL YEL GLD FLO IN 30%, GD MICRO VUG POR THRU, WK TO PR FLSH CUT IN 20%, PR TO FR SLW STRM IN 20%, FR OIL ODOR

74 U. SHOW

ROP (min/ft)  
Gamma (API)

WOB 22.9  
RPM 83  
PP 1963

WT 9.1  
VIS 55  
LCM 4

SLIDING  
4630'-4653'

SLIDING 4677'-4690'

WOB 12.9  
RPM 77  
PP 1866

WT 9.1  
VIS 57  
LCM 4

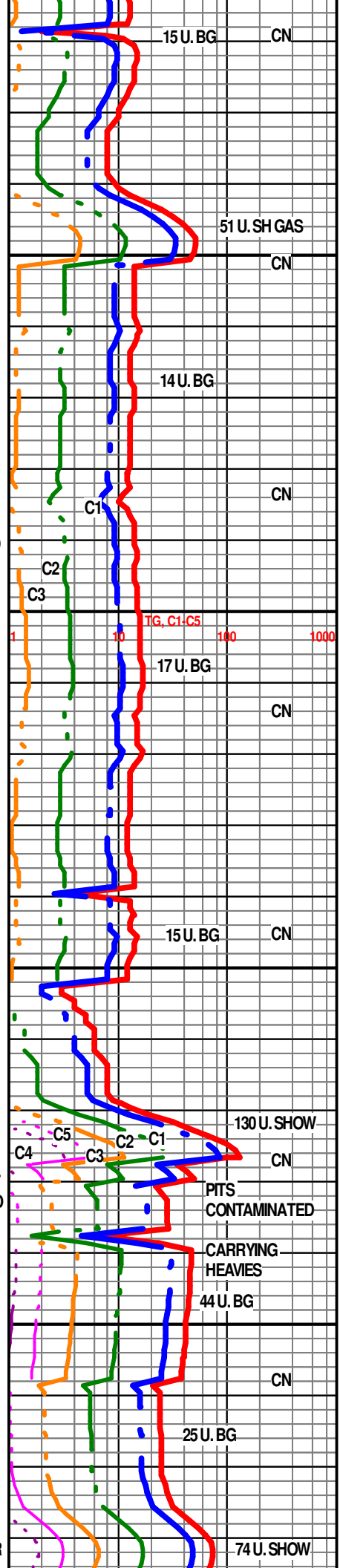
SLIDING 4740'-4745'

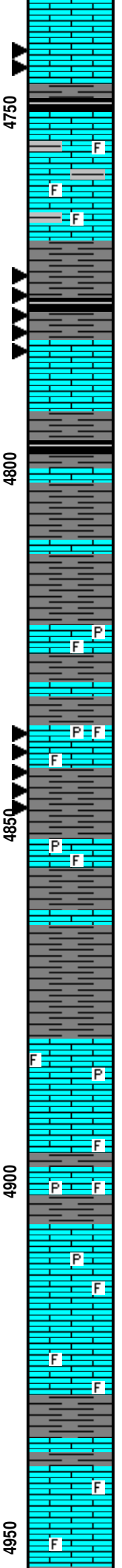
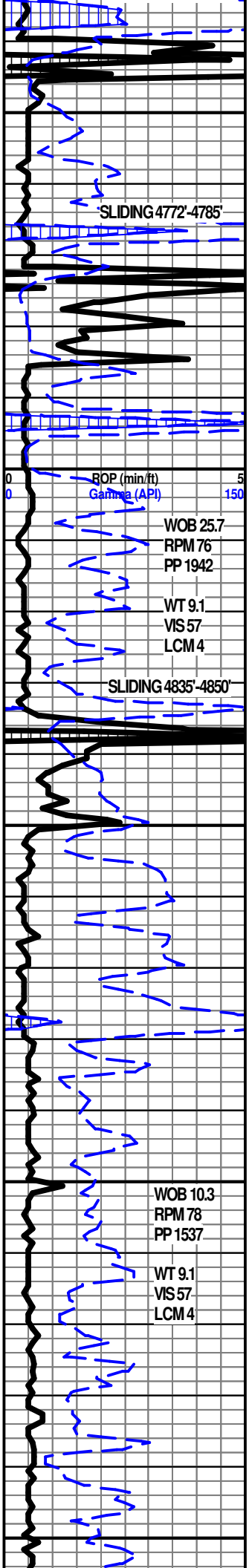
4550

4600

4650

4700





**PAWNEE** 4746'  
 MD/ 4546' TVD/ -1634' SS  
 SH- DK GRY TO BLCK, FRM BLKY TO SPLNTY, SLTY TO SMTH TXT, CARB IP

LS- CRMLT TN TN TO LT GY, HD DNS IP TO BRIT, MD XLN RE-XLN IP, S-CHLKY IP, TR FOSS FRGS IP, TR IMBD SH IP, SCAT TR DUL YEL FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- BLCK, SFT, SLTY TXT CARB

**CHEROKEE** 4796'  
 MD/ 4592' TVD/ -1680' SS  
 SH- BLCK, SFT, SLTY TXT CARB

SH- GRY DK GRY TN TO DK BRWN, FRM TO SFT BLKY, SMTH TO SLTY TXT

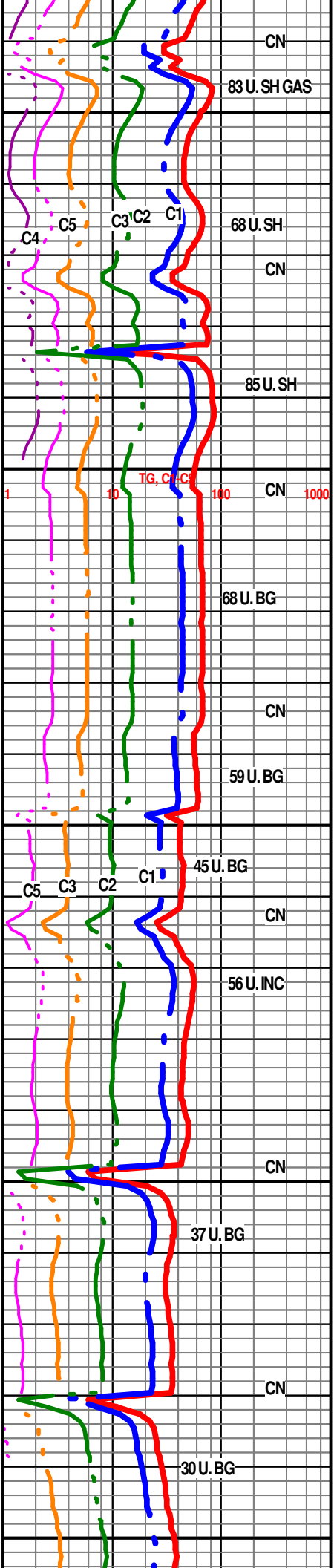
LS- LT TN TN TO TN, HD DNS TO BRIT IP, MD XLN RE-XLN MTRX, S-SUCRO IP, SLI TR IMBD FOSS FRG IP, SLI TR IMBD PYR CLSTR IP, BRT YEL FLO IN 40%, NO VIS POR, NO VISW SHOW

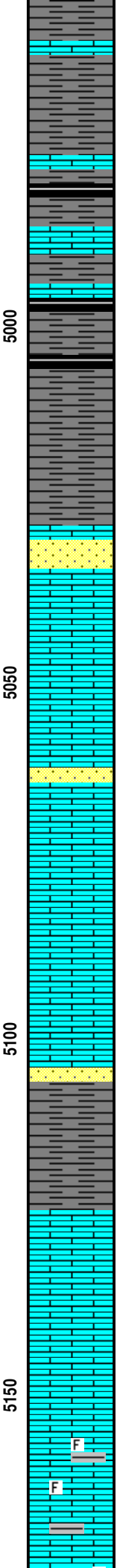
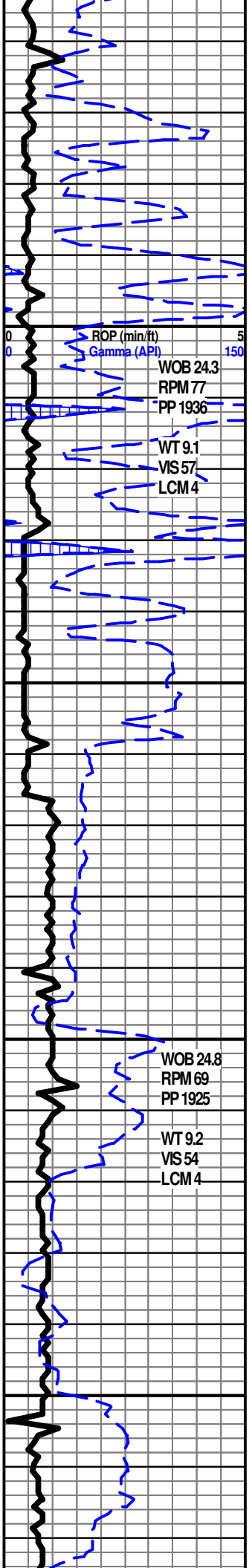
SH- DK GRY TO DK BRW, FRM BLKY, SLTY TXT

LS- LT TN TN TO DK TN, HD DNS IP TO BRIT, FN TO MD XLN RE-XLN MTRX, S-CHLKY IP, TR IMBD FOSS FRG IP, SLI TR IMBD PYR CLSTR IP, DUL YEL FLO IN 10%, NO VIS POR, NO VIS SHOW

LS- LT TN TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, RE-XLN IP, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN DK TN TO DK GRY, HD DNS TO BRIT IP, FN XLN MTRX, S-SUCRO IP, IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW





SH- BLCK, SFT BLKY, SLTY TXT, CARB

SH- GRY DK GRY TO BLCK, FRM BLKY, SMTH TO SLTY TXT

**MORROW**

5029'

MD/ 4805' TVD/ -1893' SS

5030'-5034' SS- FRSTY OFF WHT TO LT TN (DUE TO OIL STN IN 30%, HD TT TO FRI, ABDT CLR TO FRSTY QRTZ GRNS, FN TO LRG S-ANG TO S-RND GRNS, PR SRT, SIL CMNT TO CALC CMNT IP, PRED UNCONSOLIDATED GRNS, DUL YEL GLD FLO IN 20%, FR INTR GRN POR IP, WK FLSH CUT IN 20%, FR TO GD MLKY BLU SLW STRM IN 70%, FR RING CUT ON DISH, WK OIL ODOR

5062'-5064' SS- OFF WHT TO LT TN (DUE TO OIL STN IN 10%, HD TT TO FRI, ABDT CLR TO FRSTY QRTZ GRNS, FN TO MD S-ANG GRNS, FR SRT, SIL CMNT TO CALC CMNT, UNCONSOLIDATED GRNS IN TRA, DUL YEL GLD FLO IN 5%, PR INTR GRN POR IP, NO FLSH CUT, PR TO FR SLW STRM IN 10%

LS- LT TN TN TO GRY, HD DNS TO FRM BRIT, FN XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, TN TO DK TN CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SS- FRST OFF WHT TO GRN, HD TT TO V/ FRI, ABDT CLR TO FRSTY GRNS, FN S-ANG TO ANG GRNS, GD SRT, CALC CMNT TO SIL CMNT IP, IMBD CHLOR THRU, NO VIS FLO, TT INTR GRN POR, NO VIS CUT OR SHOW

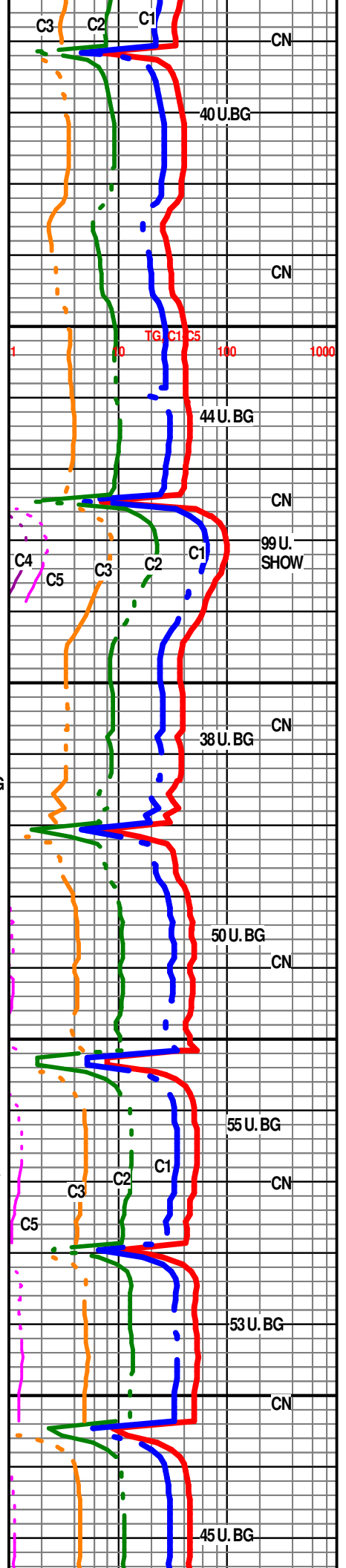
**CHESTER 5124'**

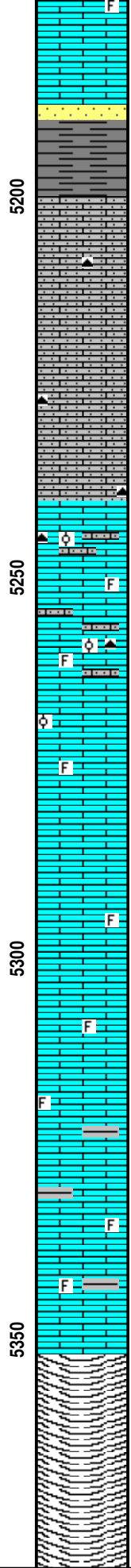
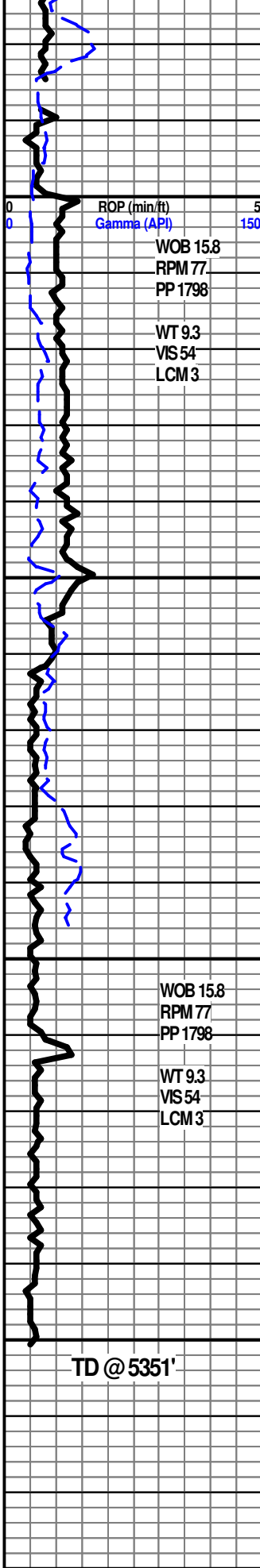
MD/

4892' TVD/ 1980' SS

LS- LT TN TN TO GRY IP, HD DNS, FN XLN SUCRO MTRX, RE-XLN IP, DUL YEL FLO IN 5%, NO VIS POR, NO VIS SHOW

LS- LT TN TN TO GRY IP, HD DNS, FN XLN SUCRO MTRX, RE-XLN IP, TR IMBD FOSS FRG IP, SCAT LT GRY TO LT GRY SH IN TRAY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW





5188'-5189' (2 ROCKS) SS- FRSTY TO TN (DUE TO OIL STN IN 20%, HD TO FRI, ABDT CLR TO FRSTY GRNS, SM TO LRG S-RND TO RND GRNS, PR SRT, SIL CMNT, PREDOM UNCONSOLIDATED GRNS, DUL YEL GLD FLO IN 50%, FR TO GD INTR GRN POR, NO FLSH CUT, FR FLSH CUT IN 30%

**ST GEN. 5187'**  
**MD/ 4918' TVD/ -2040' SS**

LS- OFF WHT TO LT TN, HD DNS, FN XLN SUCRO MTRX, ABDT IMBD FN TO SM QRTZ GRNS THRU, TR OFF WHT TN TO GRN CHRT MOTT IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

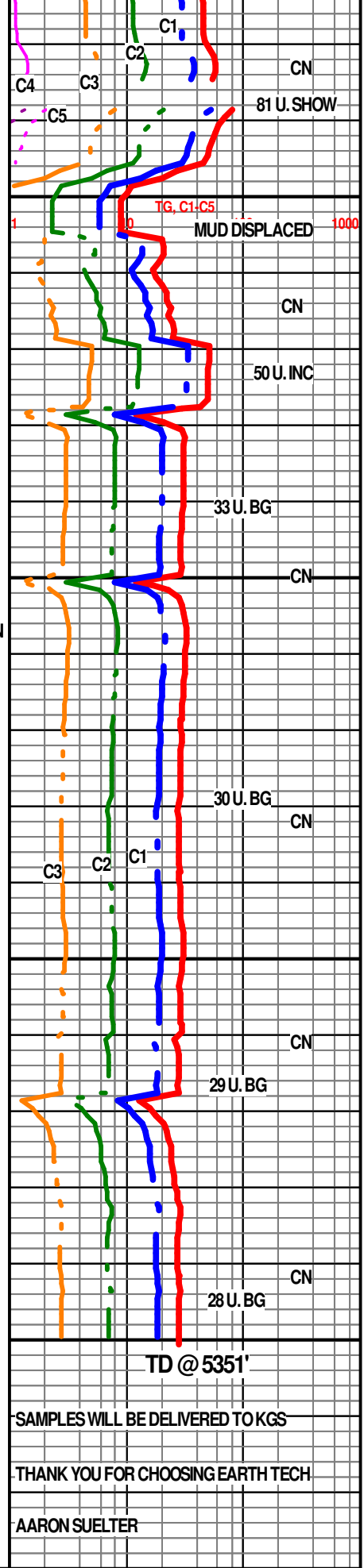
LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, RE-XLN IP, TR IMBD OOL IP, TR IMBD FOSS FRG IP, SLI TR DK TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, RE-XLN IP, TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, RE-XLN IP, TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, TR GRY SH IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

R.T.D. @ 5351' 10:00 AM 11/19/19

CTCH 1 HOUR



SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER