

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE
 P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice Invoice# 813740

Invoice Date: 07/31/18 Terms: Net 30 Page 1

SNR Kansas Operating, LLC
 P.O. Box 18251
 Oklahoma City OK 73116
 USA
 405-608-5702

ANDES 27-#1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	35.000	975.00
CE0002	Equipment Mileage Charge - Heavy Equipment	50.000	7.1500	35.000	232.38
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	35.000	429.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	135.000	23.0000	35.000	2,018.25
CC6075	Celloflake	75.000	2.0000	35.000	97.50

Subtotal 5,772.50
 Discounted Amount 2,020.38
 SubTotal After Discount 3,752.12

Amount Due 5,984.08 If paid after 08/30/18

Tax: 137.52
 Total: 3,889.65



API # 15-035-24688-00-00

11217
11105

TICKET NUMBER 54586

LOCATION Sh. Bonds, KS

FOREMAN Fuzz

PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 813740

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-28-18	7496	Andes 27-#1	27	32	5	Cowley
CUSTOMER SNE Kawsas operating			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 18251			446	Jud		
CITY	STATE	ZIP CODE	775	Bind		
OKC	OKLA	73154	725	Fuzz		

JOB TYPE surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 8 5/8
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 12.7 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on w.w #4 Rig up and establish circulation
 Pump 5 BAL water mix 135 sacks class 'A' 3% cc, 2% poly
 with 1/2# polyflake/sk. Displace 12 3/4 BAL and shut in
 cement did circulate approx 6+ BAL to pit.

Thanks Fuzz & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
660450	1	PUMP CHARGE	1500.00	1500.00
660002	50 miles	MILEAGE	7.15	357.50
660711	6.3 Ton	Tow Mileage Delivery (min)	660.00	660.00
665871	935 Sks	Surface Blend II	73.00	3105.00
660075	75 #	Polyflake	2.00	150.00
		subtotal		5772.50
		discount	3590	2020.57
		As per Bid subtotal		3752.13

SCANNED

6.5% SALES TAX 37.52
 ESTIMATED TOTAL 3889.65

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE
 P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice# 813773

Invoice Date: 08/03/18

Terms: Net 30

Page 1

SNR Kansas Operating, LLC
 P.O. Box 18251
 Oklahoma City OK 73116
 USA
 405-608-5702

ANDES #27-1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0452	Cement Pump Charge 3001' - 4000'	1.000	2,300.0000	35.000	1,495.00
CE0002	Equipment Mileage Charge - Heavy Equipment	50.000	7.1500	35.000	232.38
CE0710	Cement Delivery Charge	587.500	1.7500	35.000	668.28
CC5800A	Class A Cement - Sack	250.000	20.0000	35.000	3,250.00
CC5325	Calcium Chloride	470.000	1.2500	35.000	381.88
CC5965	Bentonite	940.000	0.3000	35.000	183.30
CC6077	Kolseal	1,250.000	0.5000	35.000	406.25
CC6079	PhenoSeal Formica Flakes	125.000	1.3500	35.000	109.69
CP8254	5 1/2" Latch Down Plug & Assembly	1.000	400.0000	35.000	260.00
CP8485	5 1/2" Float Shoe, AFU	1.000	585.0000	35.000	380.25
CP8576	5 1/2" Turbolizer	8.000	110.0000	35.000	572.00
CP8651	5 1/2" Cement Basket Reciprocating	3.000	360.0000	35.000	702.00
CP7800	Cement Chemicals & Products, Misc.	4.000	35.0000	35.000	91.00

→ CC: 405-2100200

Subtotal 13,433.88
 Discounted Amount 4,701.86
 SubTotal After Discount 8,732.02

Amount Due 14,067.51 If paid after 09/02/18

Tax: 411.86
 Total: 9,143.89



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

11244
11133

TICKET NUMBER 54609

LOCATION 180

FOREMAN Jacob Storm

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #813773

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-1-18	7496	Andes #27-1	27	32	SE	Cowley
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
SNR Kansas operating			446	Jud		
MAILING ADDRESS			713	Brad		
PO Box 18251			577	Jacob		
CITY	STATE	ZIP CODE				
OKC	OK	73154				

JOB TYPE long string HOLE SIZE 27/8 HOLE DEPTH 3610 CASING SIZE & WEIGHT 5 1/2 1716
 CASING DEPTH 3609 DRILL PIPE N/A TUBING N/A OTHER _____
 SLURRY WEIGHT 14 lb SLURRY VOL 69.45 bbl WATER gal/sk _____ CEMENT LEFT in CASING 4 ft shoe
 DISPLACEMENT 83 DISPLACEMENT PSI 1250 MIX PSI 300 RATE 65pm

REMARKS: Safety meeting, Run casing, centralizer on Joints 1,3,5,10,15,20,25,30, Baskets on Joints 4,21,31, land pipe, circulate with mud for 30 min, pump 10 bbl water mix 225 sks class A 4% gel 2%ec Seps Kol-seal 1/2 eps pheno-seal, wash pump and lines, displace with 83 bbl landing plug at 1750 psi check float, float held, plug Rest Hole with 25 sks

good Returns threw job.

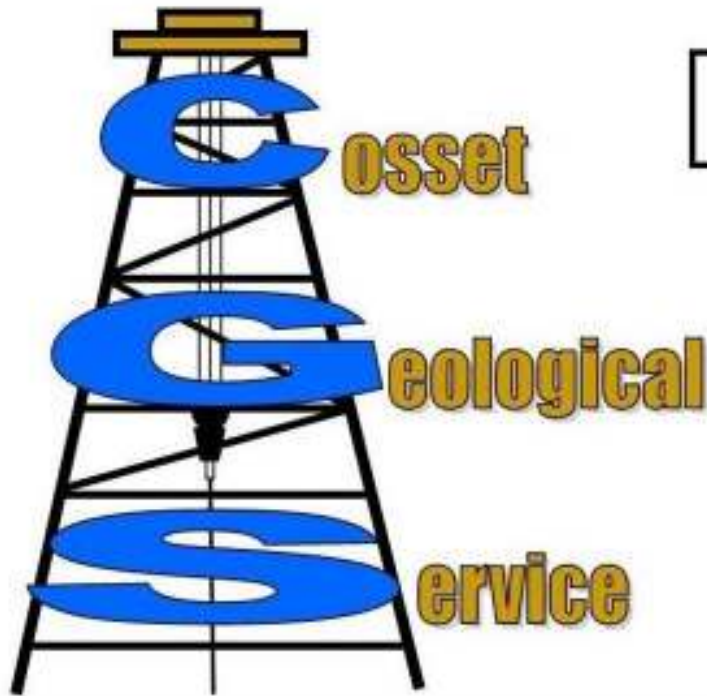
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0452	1	PUMP CHARGE	2300.00	2300.00
CE0002	50	MILEAGE	7.15	357.50
CE0710	587.5	ton mileage	1.75	1028.13
CCS800A	250	class A	20.00	5000.00
CCS325	470	calcium chloride	1.25	587.50
CCS965	940	gel	.30	282.00
CC4077	1250	Kol-Seal	.50	625.00
CC1079	125	pheno-seal	1.35	168.75
CP8254	1	5 1/2 hatch down plug	400.00	400.00
CP8485	1	5 1/2 AFc Shoe	585.00	585.00
CP8576	8	5 1/2 turbolizer	110.00	880.00
CP8651	3	5 1/2 Reciprocating Basket	360.00	1080.00
CP1800	4	5 1/2 Shoe Joint	35.00	140.00
		Subtotal		13433.89
		35%		4701.86
		total		8732.03
		6.5%	SALES TAX	411.86
			ESTIMATED TOTAL	\$ 9143.89

Ravin 3737

AUTHORIZATION

TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Professional Geological Consultation

Let our @xperience work for you.

Cosset Enterprise

P.O Box 270846

Oklahoma City, OK 73137

Office: 405-760-5933

Conrad Condreay &
Christine Kennedy

www.CossetGS.com

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

Well Name: MLT ENERGY, LLC - Andes 27-1
Well Id:
Location: 27-32S-5E - Cowley Co. Kansas
License Number: API#
Spud Date: 7/27/2018
Surface Coordinates: 660 FNL, 660 FEL, NE/4 27-320S-5E

Region: KANSAS
Drilling Completed: 7/30/18

Bottom Hole Coordinates:
Ground Elevation (ft): 1,298' K.B. Elevation (ft): 1,308'
Logged Interval (ft): 300' To: 3,610' Total Depth (ft): 3,610'
Formation: ARBUCLKE
Type of Drilling Fluid: WATER BASED MUD

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

ROCK TYPES

	Anhy		Mrlst		Isdetril		carbsltstn
	Bent		Salt		Lsnew		Calcqtzwash
	Brec		Shale		Shly-sltst		chtyqtzwh
	Cht		Shcol		sdysh		sandy limestone
	Clyst		Shgy		nosmpl		chtyslsth2
	Coal		Sltst		Dolo		sltqtzwh
	Congl		Ss		Casingpt		sandygw
	Dol		Till		carbwash		shqtzwh
	Gyp		Crbsch		siltycarbwash		Shlygw
	Igne		gw		sdylymywash		Marlst
	Lmst		limeygw		sdydolwash		Shlyss
	Meta		Limest		Granite		

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

FOSSIL

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

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

STRINGER

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

- Sltstrg
- Ssstrg
- lmy ss
- sdy ls
- Sdy ss
- Newsdygw
- slty sh
- Qtzic wa

TEXTURE

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

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Slide
- a11060_25x_mag
- 11060_25x_mag
- 11060_25x_mag
- 11060_25x_mag
- 11242_25x_mag
- 11158_25x_mag
- 13295_25x_mag
- 13946_25x_mag
- 13798_25x_mag

13645_25x_mag

EVENTS

- Slide
- Rft
- Sidewall

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic

- Organic
- Pinpoint
- Vuggy
- conn
- dt
- flowchk
- trip
- svy

SORTING

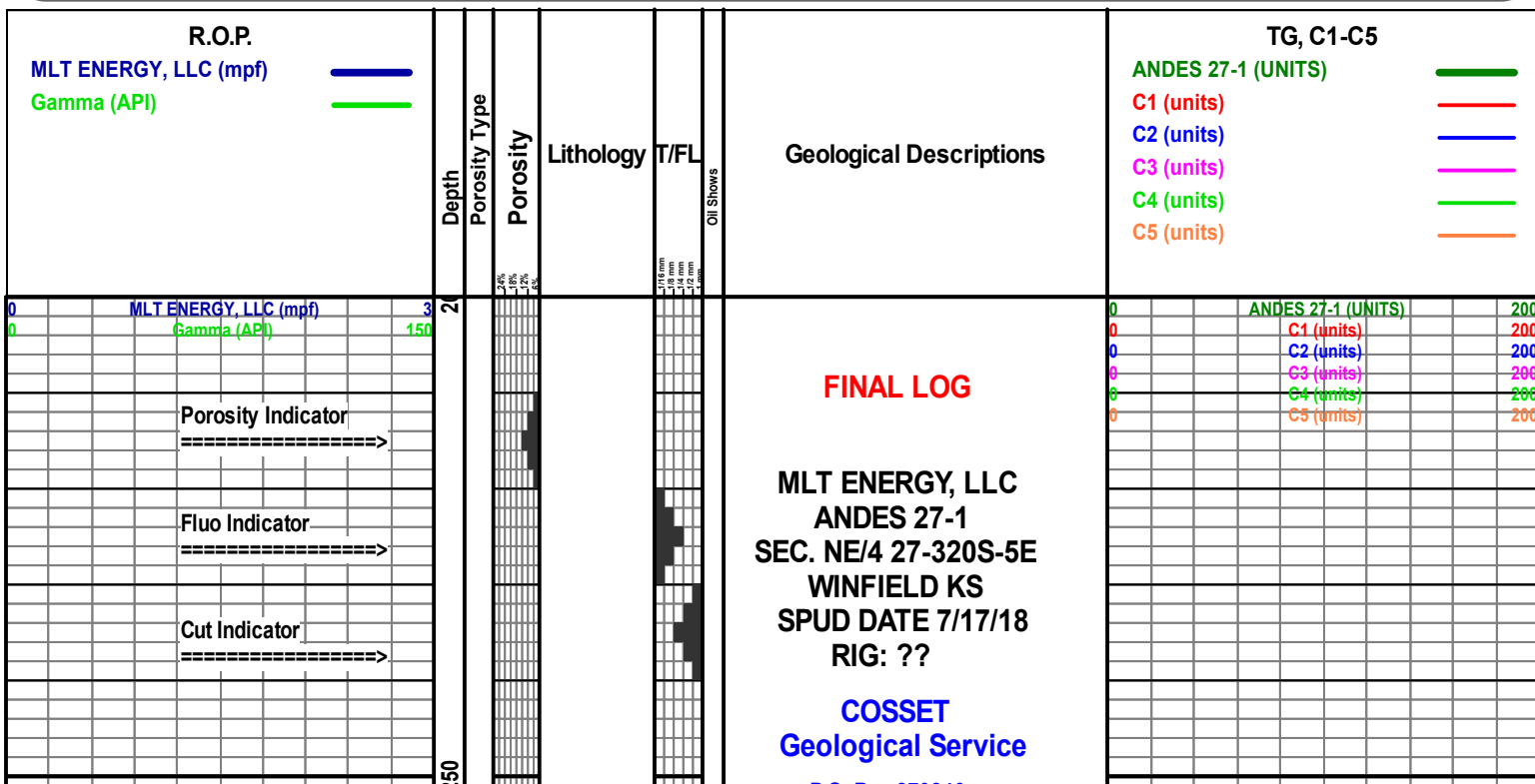
- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead



Conn
Downtime
Flow Chk
Trip
Survey

2
D
R
T
S
300
350
400
450

P.O. Box 270846
Oklahoma City, OK 73137
(405)-760-5933
WWW.COSSETGS.COM

Logger: MICHAEL ELLIOTT

BEGIN ONE MAN 24 HOUR LOGGING
SERVICE ON 7/28/18 @ 330'

GL: 1,298' KB: 1,308'

SURFACE CASING 8 5/8" @ 223'

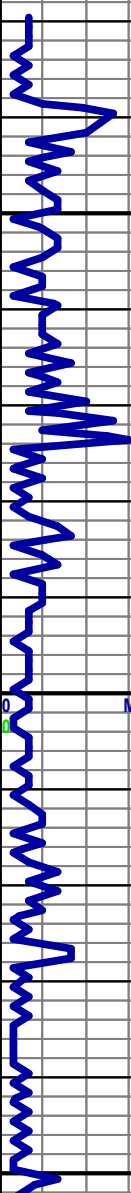
BIT #2 SMITH - 7 7/8 - M616 -
3/18 JETS - PDC - IN 223'

ROP SCALE
0 TO 5

GAS SCALE
0 TO 100

7/28/18

WOB 54
RPM 115
PUMP 334
SPM 62



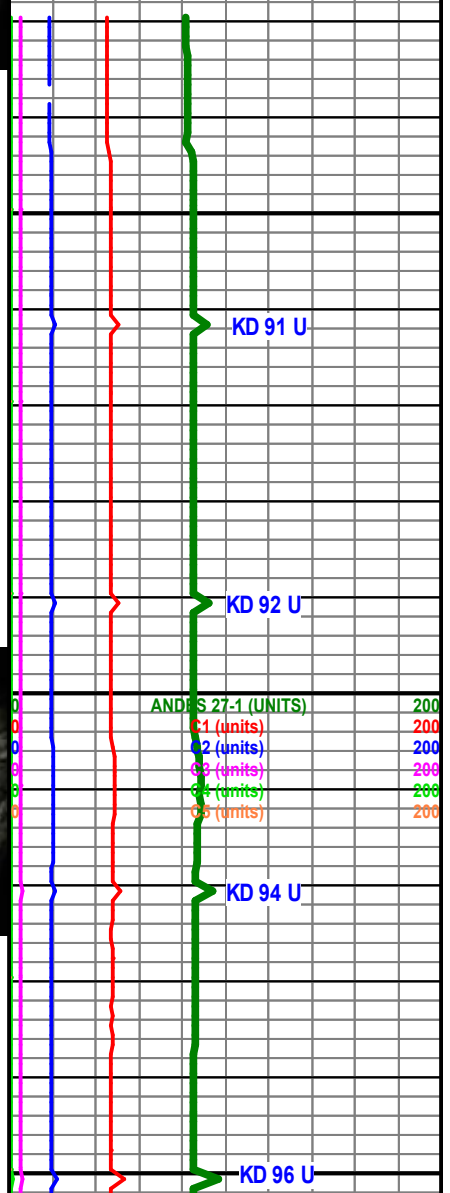
332'_35X_MAG

70% SAND; WHT/OFF WHT/LT GY,
VFN/VVFN GRN, SUB RND/RND,
FAIR/MOD CNSL - TT IP, MOD/WELL
CALC CMT, NO CUT/FLO_20%
SHALE; MD/LT GY, MD/FN/SLI SLTY
TXT, BLKY/SPLTY, BRTL/SLI FRM_10%
SILT; TN/BRN/CRM, FN/MD GRN, FAIR
SRTD_TR LIME; TAN CRM OFF WHT,
VFN TO FN XLN SME SUB CHLKY, DNS
HRD SME FRM, NO VIS POR



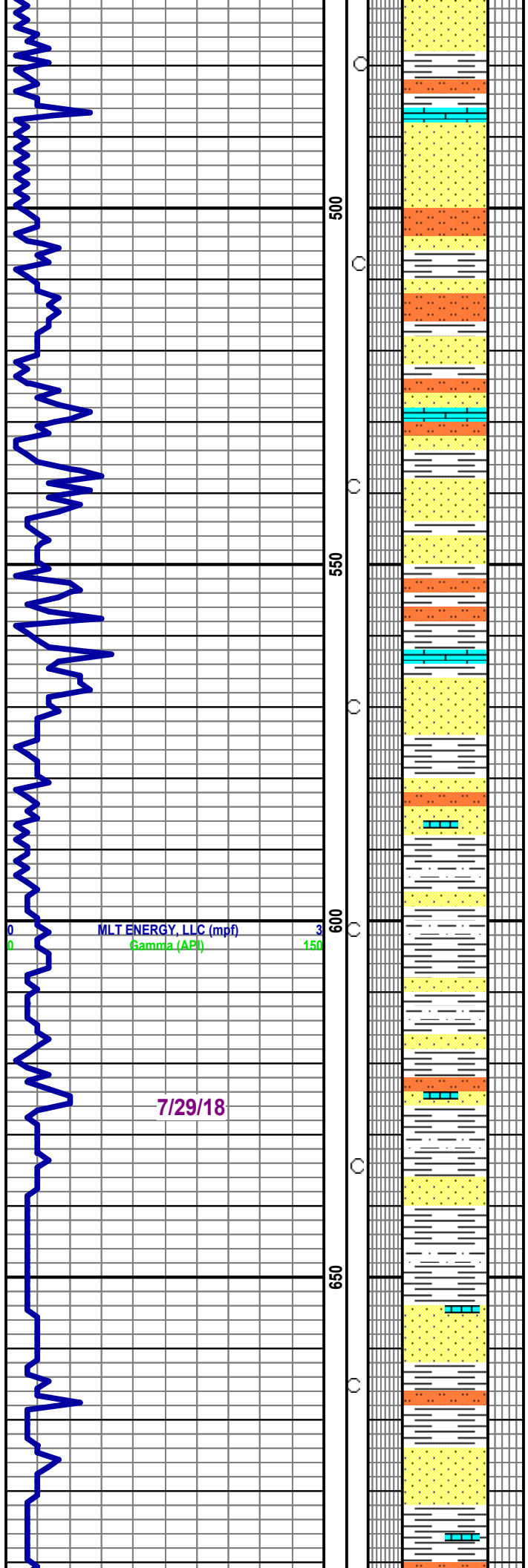
421'_35X_MAG

60% SAND; FRSTD/OPQ/LT/MD GY,
VFN/VVFN GRN, MOD/FAIR SRTD, SUB
RND/SUB ANG, FAIR/MOD CNSL, TT IP,
MOD CALC CMT_30% SHALE; MD/LT
GY/SME DK GY, SLI CALC, TRC CARB
SPCS, MD/FN/SLI SLTY TXT,
BLKY/SPLTY/SME FLKY, FRM/BRTL_8%
SILT; MD/LT GY, VVFN/FN GRN,
FAIR/POOR SRTD_2% LIME;



MLT ENERGY, LLC (mpf)
Gamma (API) 150

ANDRS 27-1 (UNITS)
C1 (units) 200
C2 (units) 200
C3 (units) 200
C4 (units) 200
C5 (units) 200



TAN/CRM/OFF WHT, VFN/FN XLN, DNS HRD SME FRM



508'_35X_MAG

50% SAND; CRM/FRSTD/OFF WHT SME GY, VFN/VFN GRN, SUB ANG/SUB RND, FAIR/MOD SRTD, MOD CNSL MOD CALC CMT _30% SHALE; MD/LT GY, MD/FN SME SLTY TXT, BLKY/SPLTY/FLKY, FRM/SLI BRTL _25% SILT; LT/MD GY/TN/BRN, MD/SLI RGH TXT, FRM/BRTL _5% LIME; TN/CRM/OFF WHT, VFN/FN XLN, HRD/FRM



602'_35X_MAG

50% SHALE; MD/DK/LT GY, MD/FN/SLI SLTY/RGH TXT, SPLTY/BLKY/FLKY, SLI CALC, TRC CARB SPCS, FRM/BRTL _30% SAND; OFF WHT CRM/LT GY/SME OPQ, VFN/FN GRN, FAIR SRTD, MOD/FAIR CNSL, SLI FRI, TRC FREE GRNS _20% SILT; MD/LT GY, VFN/FN GRN, POOR SRTD _TR LIME; TN/BRN/LT GY, VFN/FN XLN, FRM/BRTL

KD 90 U

KD 91 U

KD 97 U

KD 96 U

KD 93 U

KD 91 U

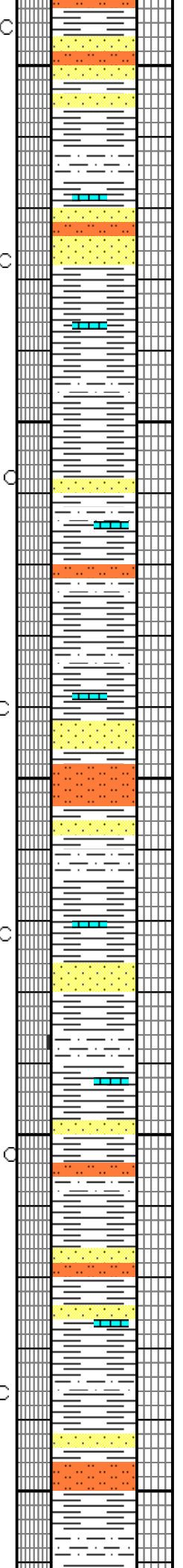
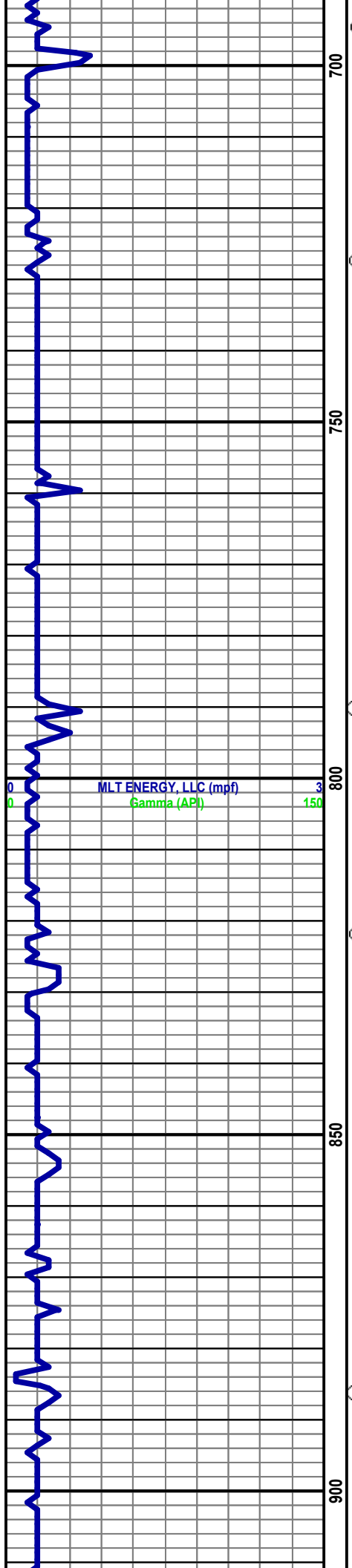
KD 97 U

95 U MINOR SHOW

MLT ENERGY, LLC (mpf)
Gamma (API)

7/29/18

ANDES 27 (units)	200
01 (units)	200
02 (units)	200
03 (units)	200
04 (units)	200
05 (units)	200



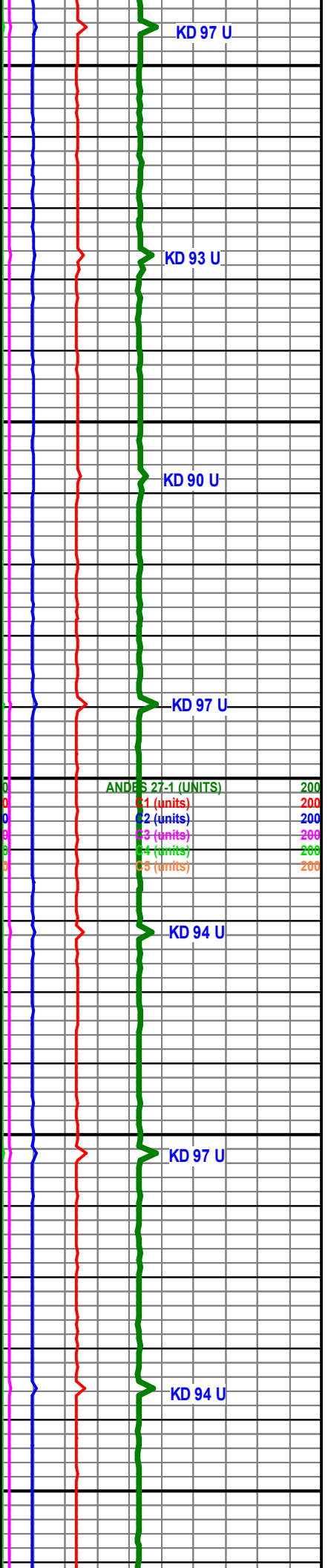
727'_35X_MAG

70% SHALE; GY/MD GY/SME DK GY, MD/FN/SLI SLTY TXT, BLKY/SPLTY, BRTL/SLI FRM 20% SAND; MD/LT GY/OFF WHT, FAIR SRTD, SUB RND /RND, VVFN/VFN GRN, MOD/WELL CNSL, TT IP, MOD/WELL CALC CMT 10% SILT; CRM/TN LT BRN/GY, VFN/FN GRN, FAIR SRTD, FAIR CNSL, FRI IP TR LIME; TN/LT GY/CRM, PRED VFN XLN



821'_35X_MAG

80% SHALE; MD/LT/SME DK GY, MD/FN/SLTY TXT, BLKY/SPLTY SME FLKY, BRTL/SLI FRM 10% SILT; BRN/MD/LT GY, VFN/VVFN GRN, FAIR SRTD, SUB ANG/SUB RND 10% SAND; CRM/OFF WHT/FRSTD GY, VFN/VVFN GRN, FAIR/MOD SRTD, SUB RND/RND, FAIR CNSL, TT IP, MOD/FAIR CALC CMT TR LIME; OFF WHT/TN/CRM, VFN XLN TO TR SUB CHLKY, DNS, SLI ARGL, NO VIS POR



KD 97 U

KD 93 U

KD 90 U

KD 97 U

ANDES 27-1 (UNITS)

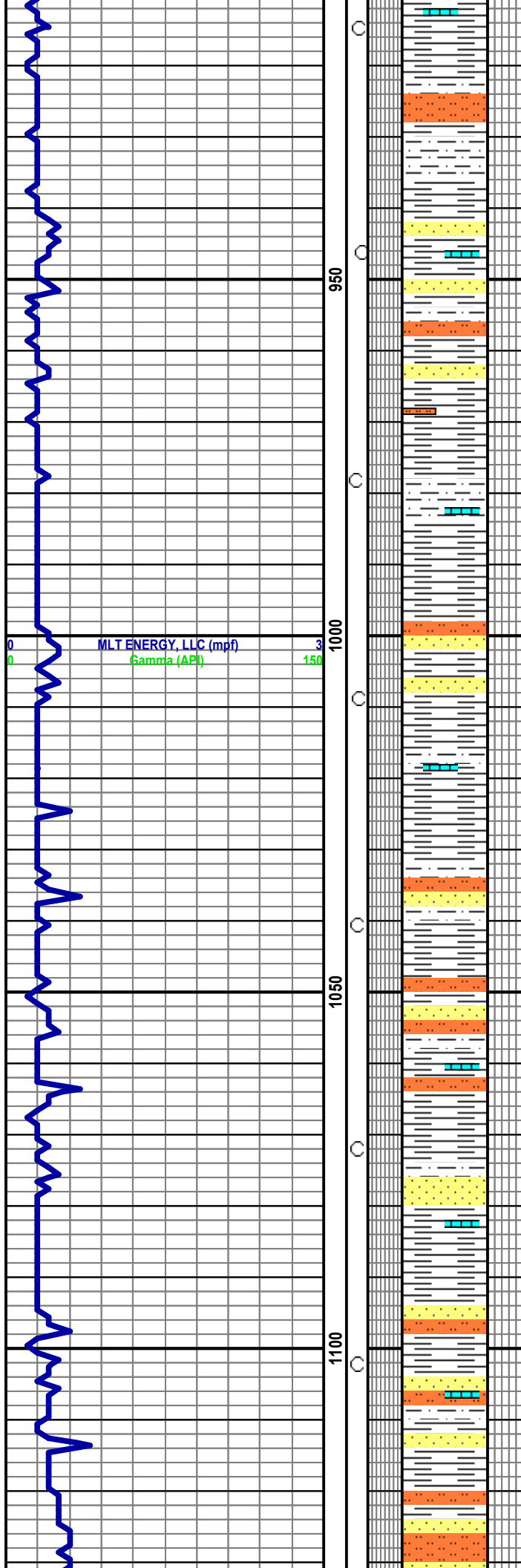
- C1 (units) 200
- C2 (units) 200
- C3 (units) 200
- C4 (units) 200
- C5 (units) 200

KD 94 U

KD 97 U

KD 94 U

MLT ENERGY, LLC (mpf)
Gamma (API)



MLT ENERGY, LLC (mpf)
Gamma (API)



915'_35X_MAG

80% SHALE; MD/DK GY/LT GY, MD/FN/INCR SLTY TXT, BLKY/SPLTY TO FLKY, BRTL/SLI FRM 10% SILT; MD/LT GY/CRM/OFF WHT, VVFN TO VFN GRN, SUB ANG/SUB RND, MOD CNSL 10% SAND; GY/LT GY/FRSTD GY/OFF WHT, VFN/VVFN GRN, MOD SRTD, TT IP, SUB RND/SUB ANG, MOD CALC CMT, TR VIS POR_FNT TRC SCATD OFF WHT CRM SUB CHLKY TO FN XLN LIME STRINGERS

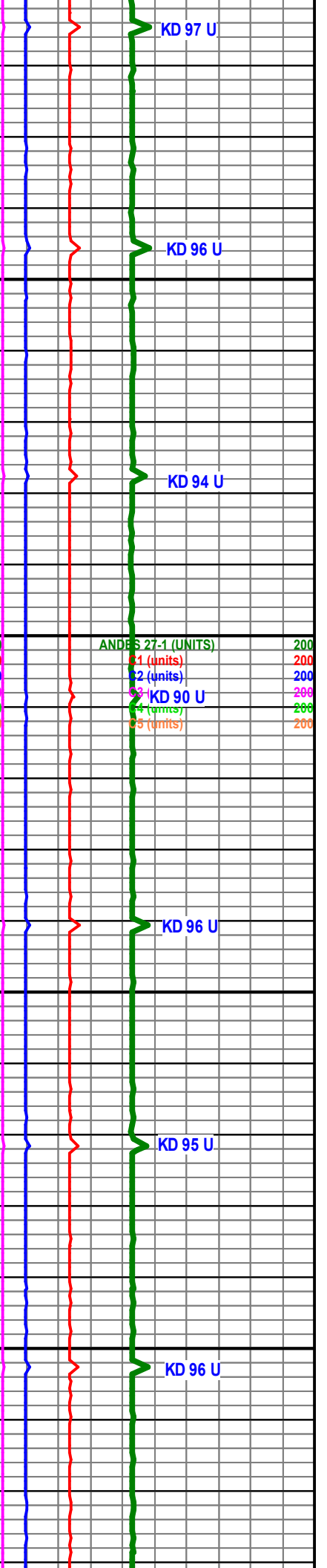


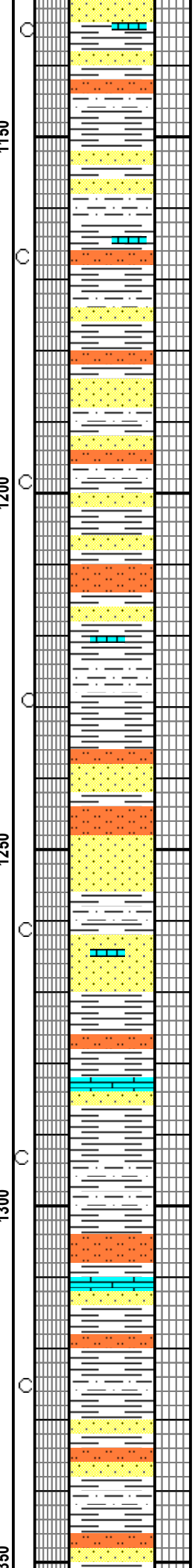
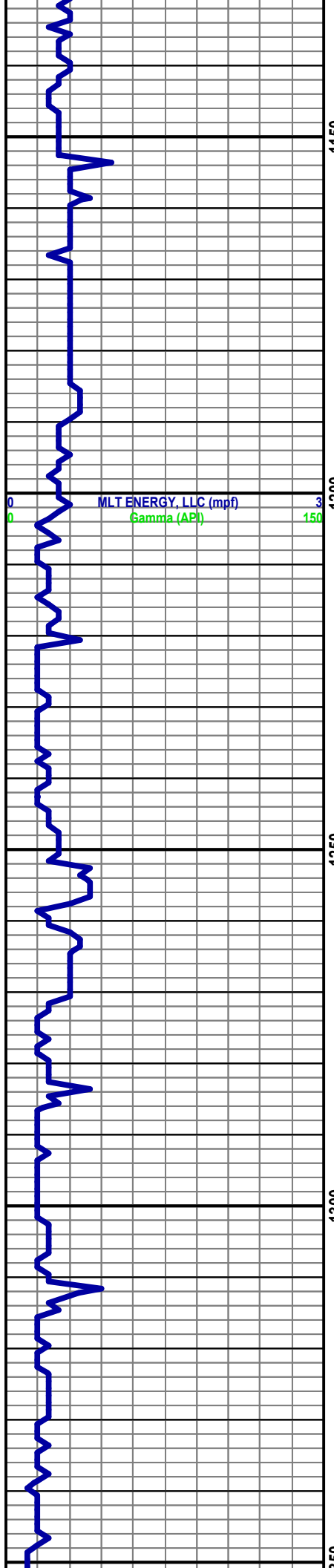
1,009'_35X_MAG

70% SHALE; MD/LT/DK GY, MD/FN/SLI SLTY TXT, BLKY/FLKY, FRM/SLI HRD/BRTL, TRC PYR NODS/FLK 25% SAND; OFF WHT/LT GY/FRSTD GY, VVFN/VFN GRN, MOD/WELL SRTD, SUB RND/RND, MOD/WELL CNSL, MOD TT, WELL CALC CMT 5% SILT; BRN/TN /RED/DK GY, VVFN/VFN GRN, SUB RND/SUB ANG, MOD CNSL_TRC SCATD CRM/OFF WHT LIME STRNGRS _ NO VIS FLOR



1,103'_35X_MAG





50% SHALE; MD/DK/SME LT GY, MD/FN SME SLI SLTY, BLKY/SPLTY /FLKY, FRM/HRD/SLI BRTL, TRC CARB, TRC EMBD PYR FLK _30% SILT; TN/BRN/LT BRN/CRM, VVFN TO VFN GRN, WELL CNSL, SUB RND/RND _20% SAND; WHT/OFF WHT/CRM/LT GY, VVFN/VFN GRN, MOD/FAIR CNSL, MOD TT, SUB RND/RND, MOD/WELL CALC CMT, TRC INTGRN POR, FNT TRC DUL GLD FLOR _TRC SCATD VIS LIME; OFF WHT/CRM/TN SUB CHLKY/FN XLN



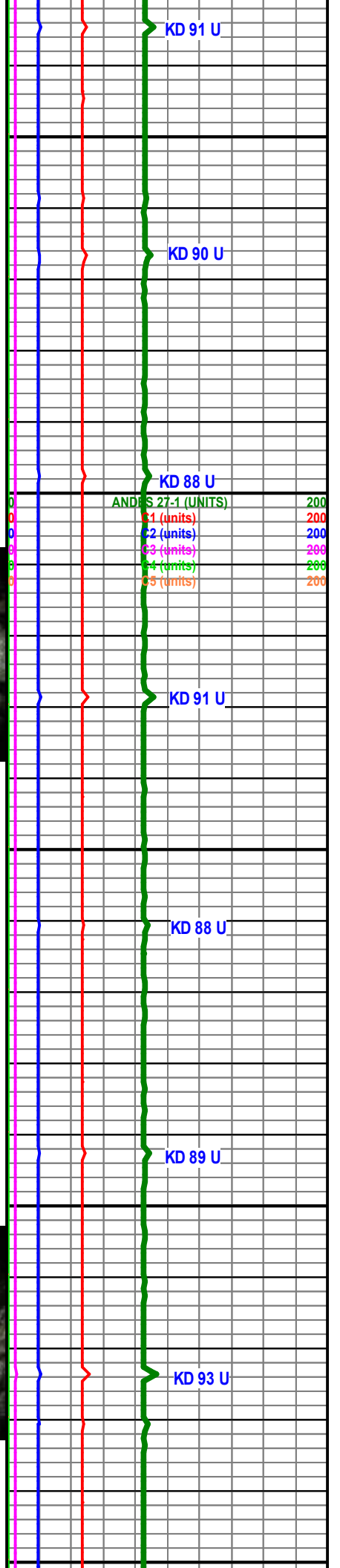
1,229'_35X_MAG

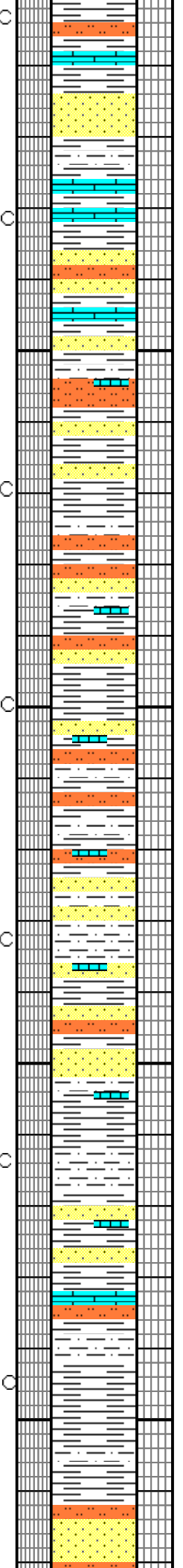
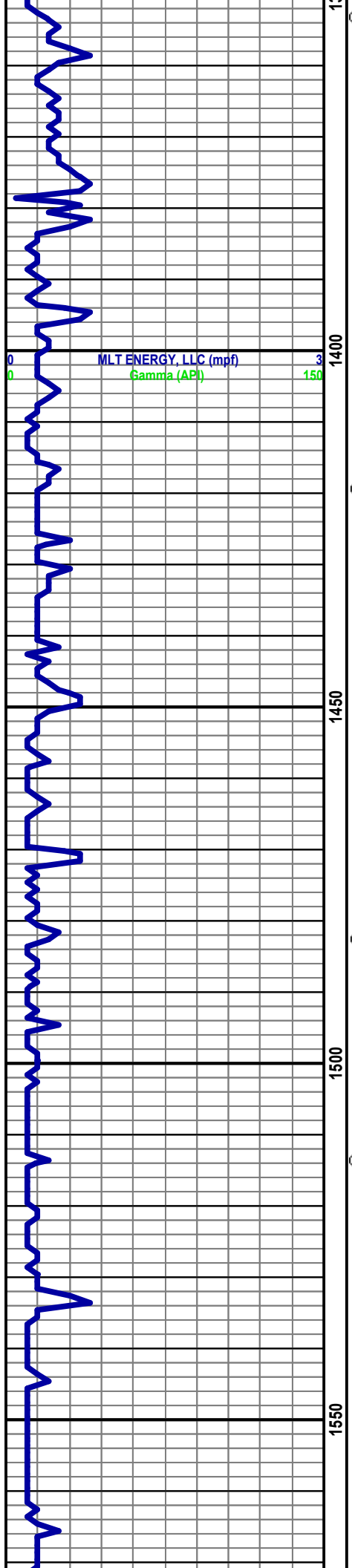
50% SAND; CRM/LT GY/FRSTD GY, VFN/FN GRN, WELL/FAIR SRTD, MOD TO WELL CNSL TT IP, SUB RND/RND, TRC INTGRN POR, MOD/FAIR CALC CMT, FNT TRC DUL GLD FLOR, NO CUT _30% SHALE; MD/LT GY/SME DK GY, MD/FN/SLI SLTY TXT, FRM HRD, BLKY/SPLTY, TRC EMBD CARB _15% SILT; MD GY/OFF WHT BRN/RED, FAIR SRTD, SUB ANG/SUB RND, VFN/VVFN GRN _5% LIME; CRM/TN/OFF WHT, VFN/FN XLN, FRM TO SLI BRTL, TRC VIS FRACT POR



1,324'_35X_MAG

50% SHALE; MD/DK GY/LT GY,





MD/FN/SLI SLTY TXT, SLI CALC, TRC EMBD CARB, BLKY/FLKY/ SME SPLTY, FRM/SLI BRTL _40% SAND; GY/FRSTD GY/OFF WHT, VFN/FN GRN, SUB RND/RND, MOD/FAIR SRTD, MOD/WELL CNSL, MOD TT, TRC INTGRN POR _7% SILT; MD GY/OFF WHT BRN/RED, FAIR SRTD, SUB ANG/SUB RND, VFN/VVFN GRN _3% LIME; TN/CRM/OFF WHT, VFN/FN XLN TRC SUB CHLKY, ARG LIP, TRC INTXLN POR TRC VIS FRACT



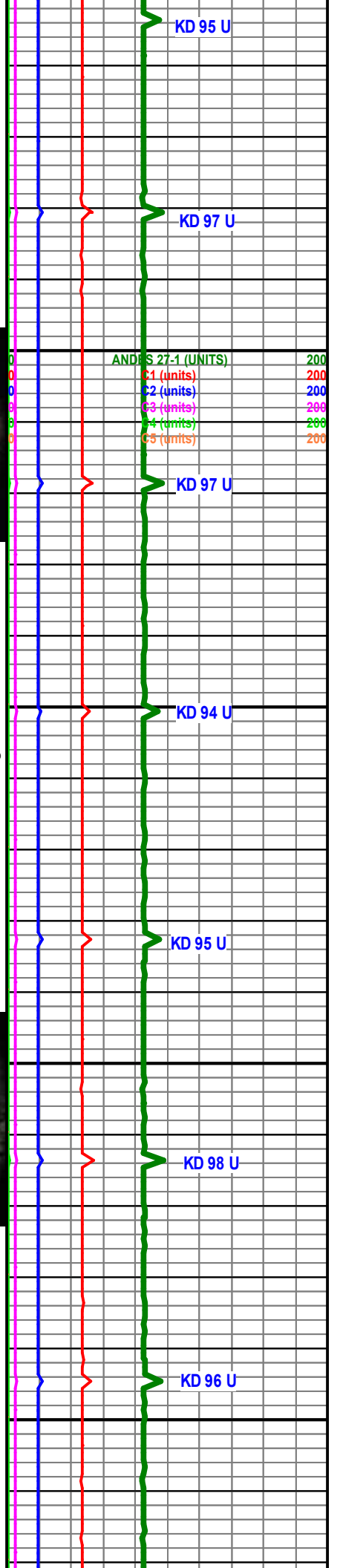
1,419'_35X_MAG

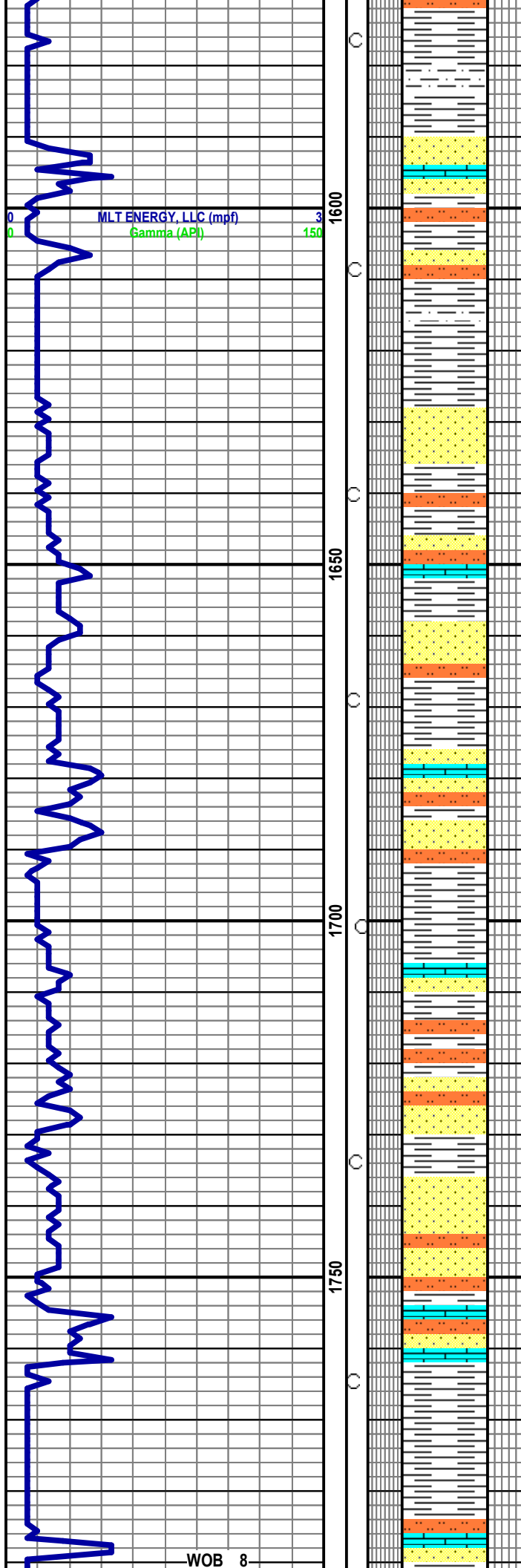
50% SHALE; MD/DK/LT GY, FN/MD SLI SLTY TXT, BLKY/SPLTY /FLKY, FRM/HRD/SLI BRTL, TRC CARB SPCS, TRC EMBD PYR FLK _30% SILT; TN/BRN/LT BRN/CRM, VVFN TO VFN GRN, WELL CNSL, SUB RND/RND _20% SAND; WHT/OFF WHT/CRM/LT GY, VVFN/VFN GRN, MOD/FAIR CNSL, MOD TT, SUB RND/RND, MOD/WELL CALC CMT, TRC INTGRN POR, FNT TRC DUL GLD FLOR _TRC SCATD VIS LIME; OFF WHT/ CRM/TN SUB CHLKY/FN XLN



1,514'_35X_MAG

60% SHALE; MD/DK GY, FAIR CALC, TRC CARB SPCS, CRSE/MD/SLI SLTY TXT, SPLTY/FLKY/BLKY, FRM/BRTL TRC PYR FLK _30% SAND; GY/LT GY/ CRM/FRSTD, VFN/FN GRN, FAIR/MOD SRTD, SUB RND/RND, FAIR/MOD CNSL, TT IP, FAIR CALC CMT _7% SILT; MD/LT GY/TN, VFN/FN GRN, FAIR/MOD SRTD _3% LIME; CRM/TN OFF WHT/BUF, VFN/FN XLN, DNS HRD, TRC FRACT





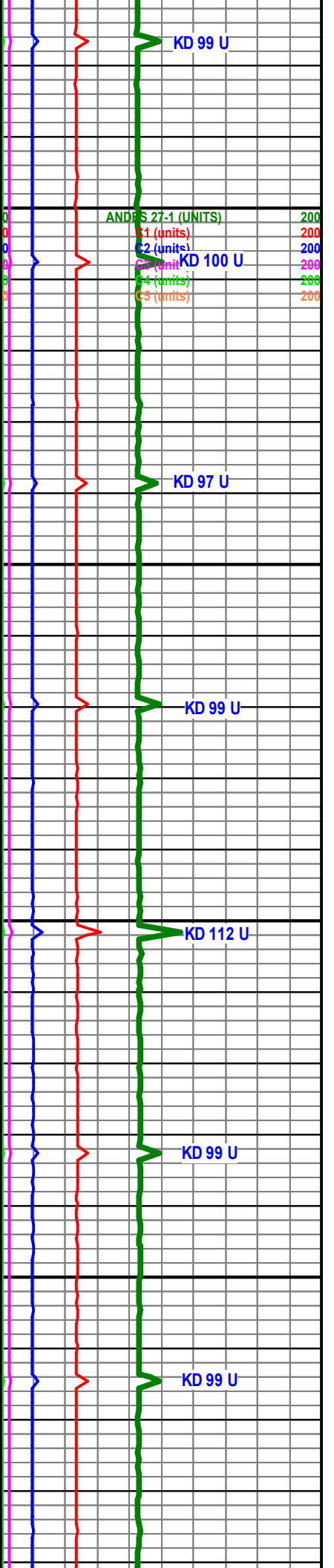
1,608'_35X_MAG

50% SHALE; MD/LT GY, MD/FN/SLI SLT TXT, FRM/SLI BRTL, SLI CALC, TRC CARB SPCS, BLKY/SPLTY _30% SAND; OFF WHT/CRM/TN/FRSTD GY, VFN/FN GRN, MOD SRD, FAIR/MOD CNSL, TT IP W/SME SCATD FREE GRNS, FAIR CALC CMT, TRC DUL YEL/GLD FLOR, NO CUT _15% SILT; LT/MD GY, VVFN/VFN GRN, FAIR/MOD SRD _5% LIME; TN/CRM LT GY, VFN/FN XLN SME SUB CHLKY, FRM/HRD NO VIS POR



1,702'_35X_MAG

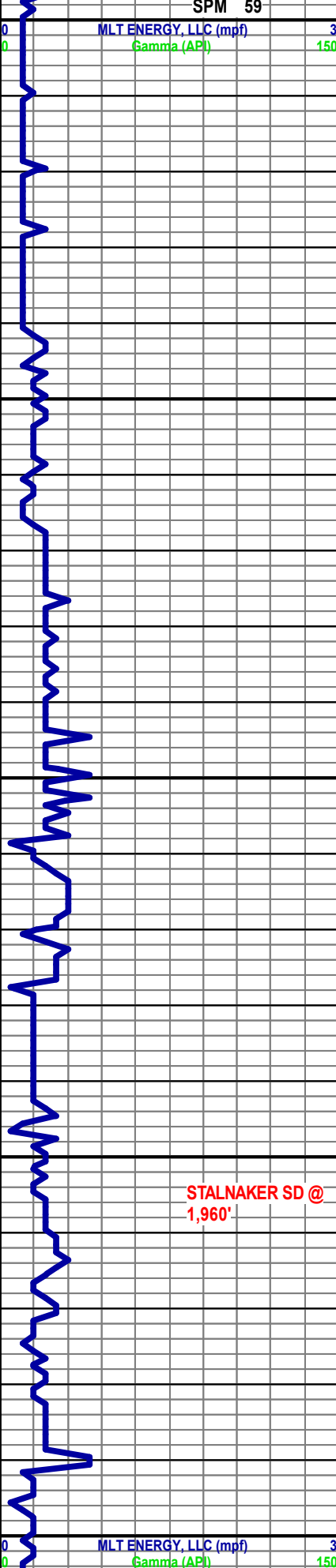
40% SHALE; MD/DK GY, MD/FN/SLI SLTY TXT, SLI CALC, BLKY/SPLTY, FRM/SLI BRTL _30% SAND; GY/LT GY/OFF WHT/FRSTD, MOD SRD, SUB RND/RND, PRED TT W/FEW VIS SCATD FREE GRNS, MOD CALC CMT, TRC;FAIR INTGRN POR, TRC DUL GLD FLOR NO CUT _25% SILT; MD/LT GY, VFN/FN GRN GRN, FAIR/MOD SRD _5% LIME; TN BRN, VFN/FN XLN SME SUB CHLKY, DNSE/HRD, TRC VIS FRACT



RPM 125
PUMP 340
SPM 59

MLT ENERGY, LLC (mpf)
Gamma (API) 150

1800
1850
1900
1950
2000



1,828' _35X_MAG

40% SAND; MD/LT GY/FRSTD,
FN/VFN/MD GRN, MOD/FAIR SRTD, SUB
RND/RND, MOD/WELL CNSL, TT IP,
WELL CALC CMT, TRC VIS DUL GLD
MIN FLOR, NO CUT _30% SHALE;
MD/DK GY, MD/FN/SLI SLTY TXT, SLI
CALC, TRC CARB SPCS,
BLKY/CHNKY/SPLTY, FRM/BRTL _20%
SILT; LT/MD GY, VVFN/VFN GRN
MOD/FAIR SRTD _10% LIME; TN/BRN,
VFN/FN XLN SME SUB CHLKY,
DNSE/HRD, TRC VIS FRACT



1,922' _35X_MAG

STALNAKER SD @ 1,960'
65% SAND; OFF WHT/WHT/CRM/LT GY,
MOD SRTD, SUB RND/RND, MOD TO
WELL CNSL, MOD CALC CMT, TRC
SCATD VFN FREE GRNS _25% SHALE;
MD/LT GY/SME DK GY, MD RGH/SLI
SLTY TXT, BLKY/SPLTY PLTY, BRTL/SLI
FRM _10% SILT; MD GY/RED/CRM,
MOD/WELL SRTD, VVFN/VFN GRN,
SUB RND/SUB ANG _TRC VIS LIME;
WHT OFF WHT, VFNXLN, SME SUB
CHLKY PCS, DNSE



KD 103 U
AND/S 27-1 (UNITS) 200
C1 (units) 200
C2 (units) 200
C3 (units) 200
C4 (units) 200
C5 (units) 200

KD 101 U

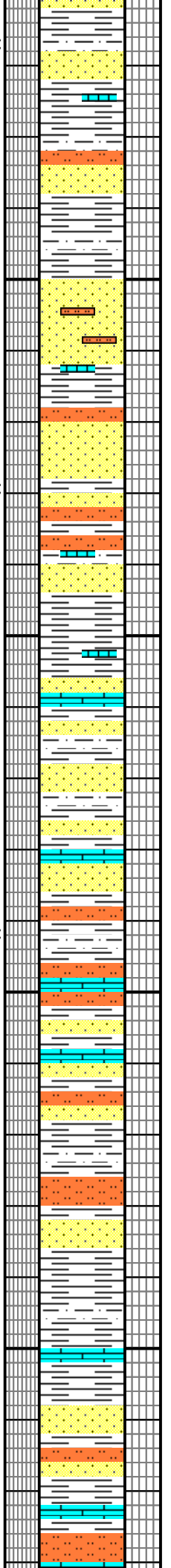
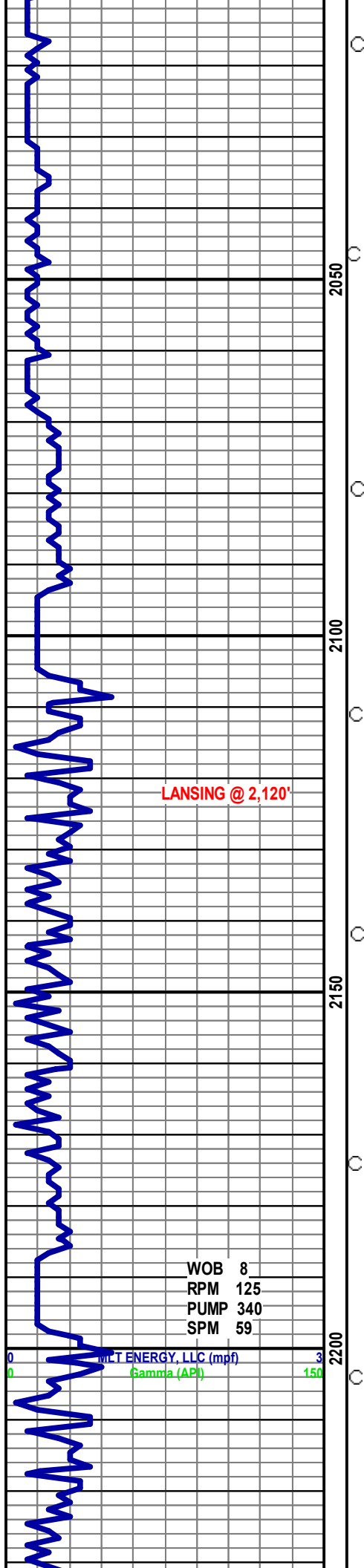
KD 106 U

KD 98 U

KD 97 U

KD 99 U

KD 103 U
AND/S 27-1 (UNITS) 200
C1 (units) 200
C2 (units) 200
C3 (units) 200
C4 (units) 200





2,017'_35X_MAG

60% SHALE; MD/DK GY/LT GY, VFN /FN/SLI SLTY TXT, BLKY /SPLTY /FLKY, BRTL/FRM/SLI HRD, TRC VIS PYR NOD/FLK _30% SAND; CRM /WHT/OFF WHT/LT GY, VFN/FN GRN, MOD/FAIR SRTD, MOD/FAIR CNSL, TT IP, MOD/FAIR CALC CMT, TRC INTGRN POR, NO VIS FLOR _10% SILT; OFF WHT/LT GY/CRM/BRN, VFN/VVFN GRN, FAIR/MOD SRTD, SUB RND/RND _TRC LIME; WHT/OFF WHT/TN, VFN/FN XLN, ARGL IP, TRC VIS FRAC POR



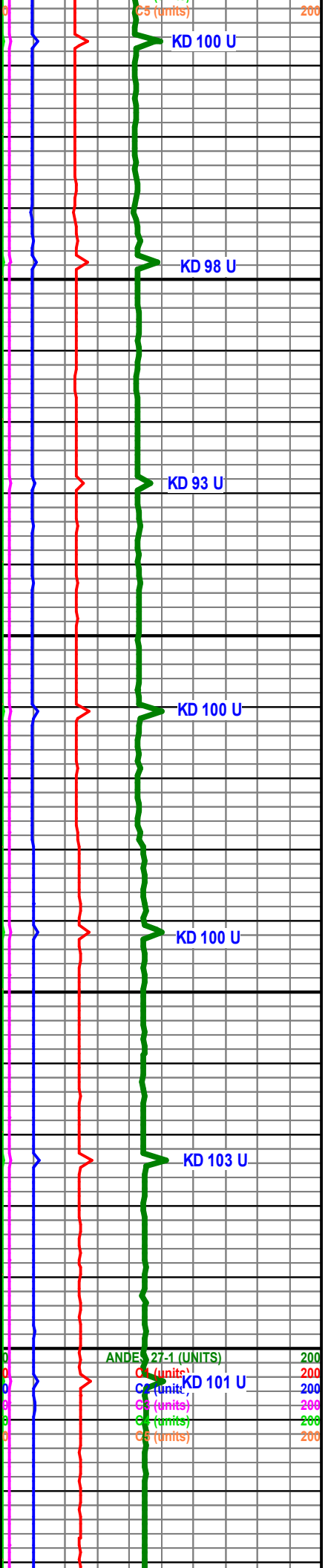
2,111'_35X_MAG

LANSING @ 2,120'

40% SHALE; GY/MD GY/DK GY, MD/SLI SLTY TXT, BLKY/SPLTY, FRM/HRD/SLI BRTL, TRC PYR FLK _25% SILT; MD/LT/DK GY, VVFN/VFN GRN, SUB ANG/SUB RND, FAIR/MOD SRTD, SLI CALC _30% SAND; LT GY/OFF WHT/FRSTD, VFN/FN GRN, SUB RND/SUB ANG, MOD/ SME FAIR CNSL, MOD TT, MOD CALC CMT _5% LIME; TN/OFF WHT/CRM, VFN/FN XLN, HRD/DNSE, NO VIS POR



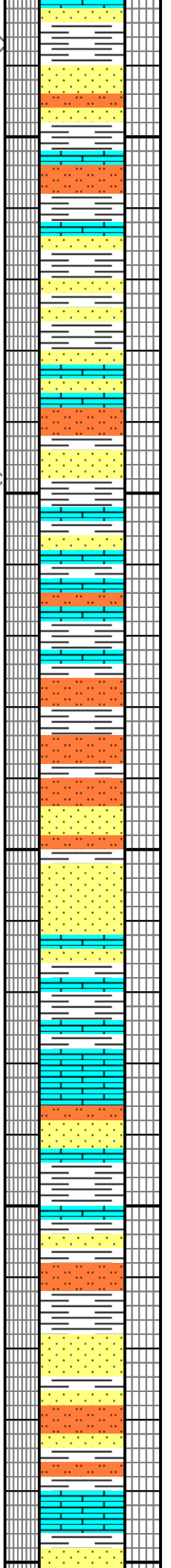
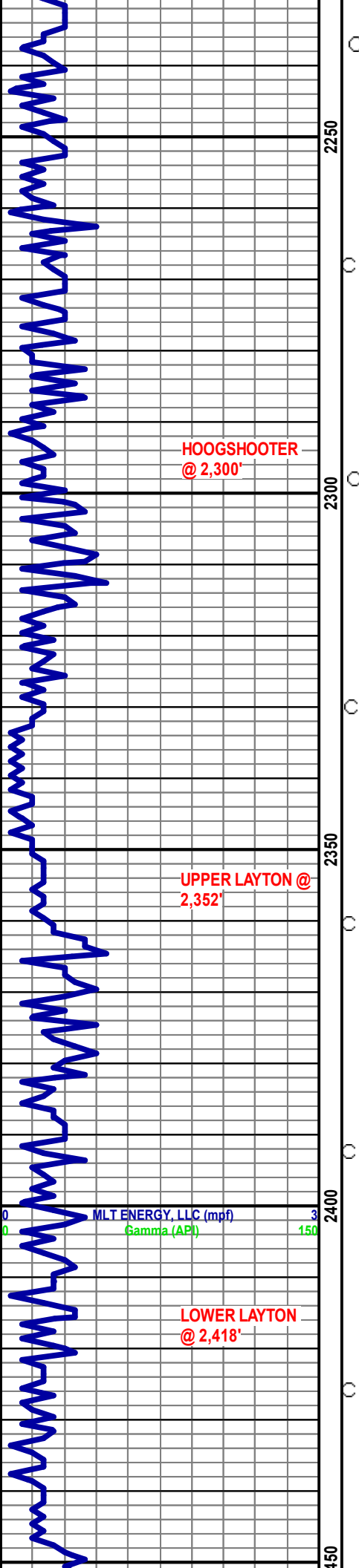
2,205'_35X_MAG



WOB 8
RPM 125
PUMP 340
SPM 59

WELT ENERGY, LLC (mpf)
Gamma (API)

ANDES 27-1 (UNITS)
C5 (units) 200
C5 (units) 200
C5 (units) 200
C5 (units) 200
C5 (units) 200



40% SHALE; GY/MD GY/LT GY, FN/MD/SLTY TXT, SPLTY/BLKY/SME FLKY, BRTL/FRM/ TRC PYR FLK _30% SILT; TN/MD/LT GY, VFN/VFVN GRN, FAIR/MOD SRTD _20% SAND; GY/OFF WHT/CRM FRSTD, VFN/FN GRN, FAIR/SRTD, SUB RND/SUB ANG, FAIR/MOD CALC CMT, MOD CNSL _10% LIME; CRM/TN/LT GY/OFF WHT, VFN/FN XLN, TRC FRACT POR

HOOGSHOOTER @ 2,300'



2,298'_35X_MAG

35% SILT; LT/MD GY, VVFN/FN TXT, VVFN/FN GRN, FAIR/MOD SRTD _30% SAND; CRM/OFF WHT/FRSTD GY, VFN/MCRFN GRN, SUB RND/RND, MOD/WELL CNSL, PRED TT TRC/FAIR SCATD VFN FREE GRNS, MOD/WELL CALC CMT, TRC INTGRN POR, WK DUL YEL FLOR, NO CUT _25% LIME; TN/LT TN/CRM, VFN/MCRFN XLN, SLI ARGL, TRC INTXLN POR, NO VIS FLOR _10% SHALE; LT GY/MD GY SME DK GY, MD/FN TXT SME SLI RGH, SLI CALC, TRC EMBD CARB, BLKY/FLKY/SPLTY, FRM/SLI SFT

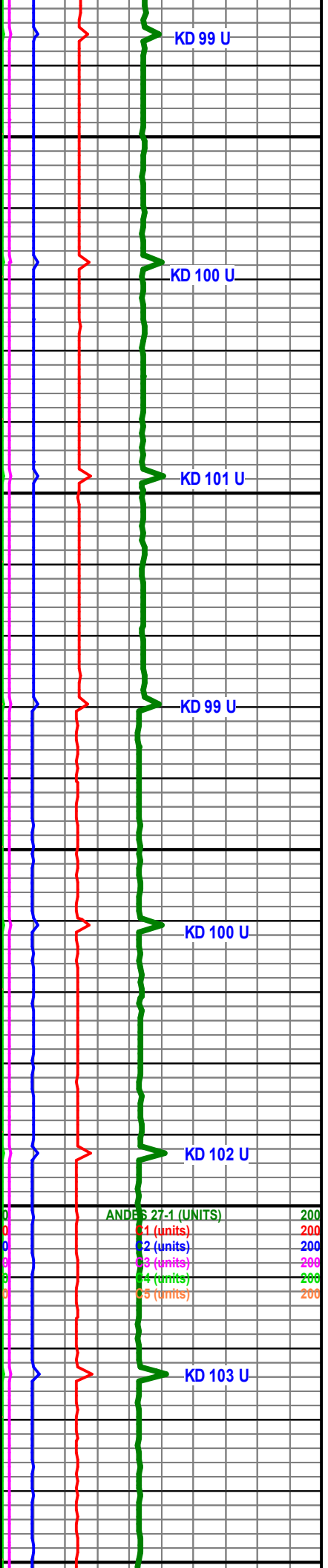
UPPER LAYTON @ 2,352'

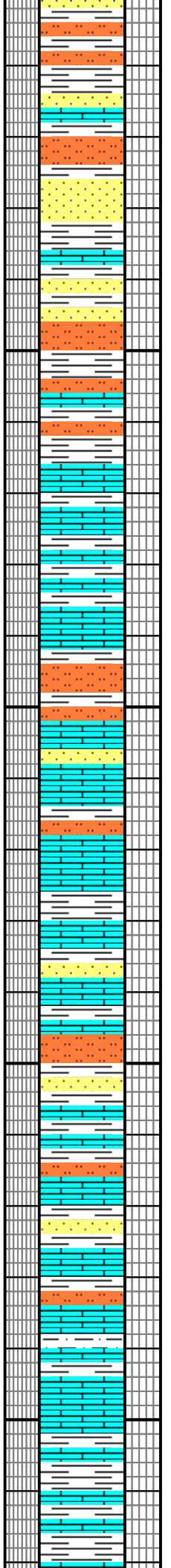
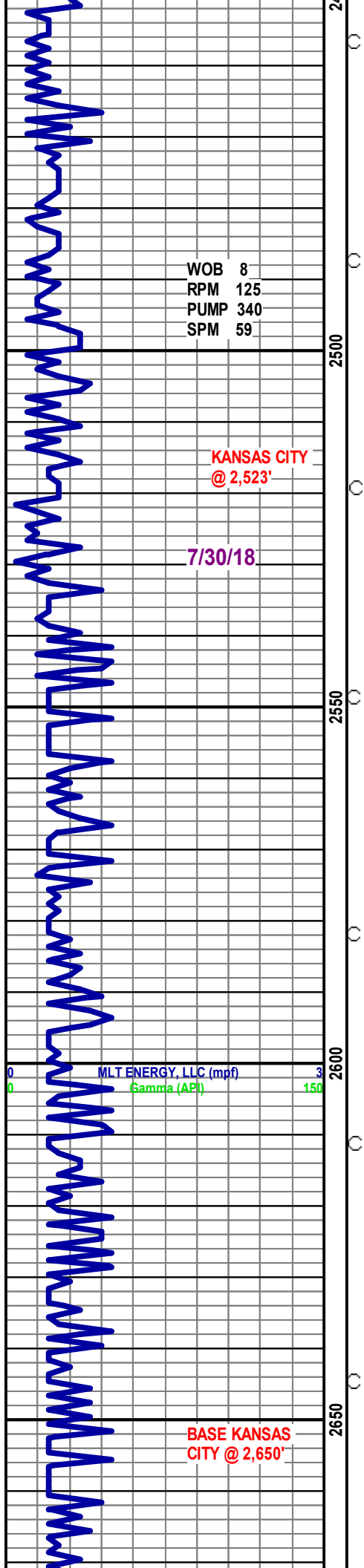


2,393'_35X_MAG

LOWER LAYTON @ 2,418'

40% SILT; MD GY/OFF WHT/CRM, FAIR SRTD, SUB ANG/SUB RND, VFN/FN GRN _30% SAND; LT GY/OFF WHT/FRSTD GY, VFN/FN GRN, MOD /FAIR SRTD, SLI/MOD FRI, MOD/WELL CNSL, SUB RND/RND, FAIR/MOD INTGRN POR, MOD/FAIR CALC CMT, TRC/FAIR DUL YEL FLOR, WK SPTY CUT, NO RES _20% LIME; TN/BRN /OFF WHT, VFN/FN XLN DNSE HRD, TRC VIS FRACT _10% SHALE; MD/LT GY/DK GY





FRACT _10% SHALE; MD/LT GY/BRN GY,
MD/FN/SLTY TXT, PLTY /FLKY/BLKY,
BRTL/FRM/SLI SFT, TRC EMBD CARB
PCS, FEW VIS NODS



2,487'_35X_MAG

KANSAS CITY @ 2,523'

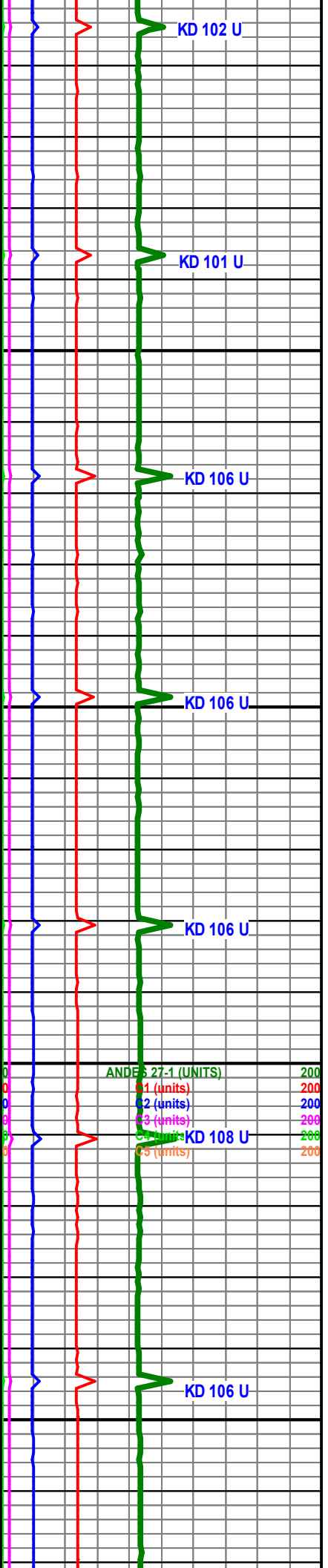
35% LIME; TAN/CRM/OFF WHT, VFN/FN
XLN, DNS/HRD/FRM, TRC/FAIR VIS
FRACT POR _30% SILT; MD/LT GY/TN,
VFN/FN GRN, FAIR/MOD SRTD _25%
SHALE; MD/LT GY/SME DK GY, SLI
CALC, TRC CARB SPCS, MD/FN /SLI
SLTY TXT, BLKY/SPLTY /FLKY,
FRM/BRTL _10% SAND; TN/OFF WHT
CRM/LT GY, VFN/FN GRN, FAIR/MOD
SRTD, MOD/FAIR CNSL, TRC FRI, FAIR
INTGRN POR, FAIR/MOD CALC CMT,
TRC DUL GLD FLOR, NO CUT



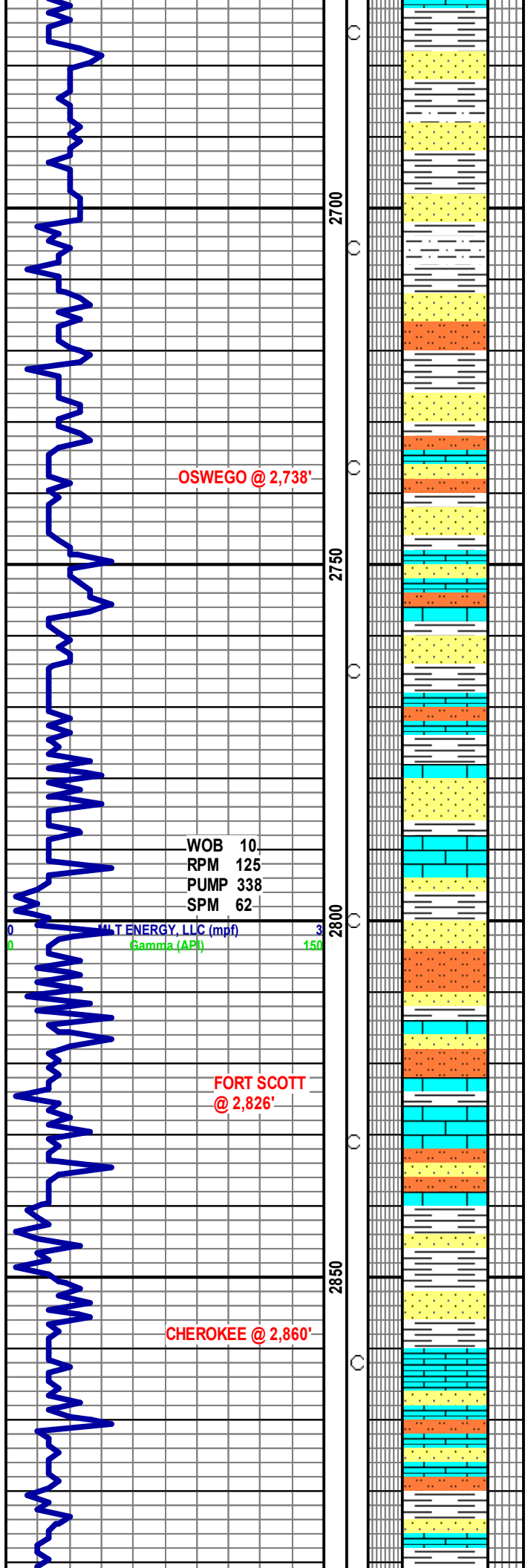
2,581'_35X_MAG

50% LIME; LT GY/BRN/OFF WHT,
VFN/FN/VFN XLN, TRC FRACT POR
_20% SHALE; DK/MD GY/LT GY,
MD/FN/SLTY TXT, BLKY/FLKY/SPLTY
FRM/BRTL _30% SHALE: LT GY/MD GY
SME DK GY, MD/FN TXT SME SLI RGH,
SLI CALC, TRC EMBD CARB,
BLKY/FLKY/SPLTY, FRM/SLI SFT _15%
SAND; OFF WHT/FRSTD/CRM,
VFN/MCRFN GRN, MOD/WELL
SRTD, SUB RND/SUB ANG, WELL
CNSL, V TT, MOD CALC CMT, TRC
INTGRN POR, NO FLOR/CUT _5% SILT;
MD/LT GY/TN, VFN/FN GRN, FAIR/MOD
SRTD

BASE KANSAS CITY @ 2,650'



ANDES 27-1 (UNITS)	
01 (units)	200
02 (units)	200
03 (units)	200
04 (units)	200
05 (units)	200



2,675'_35X_MAG

40% SAND; GY/LT GY/FRSTD/OFF WHT, MOD/WELL SRD, SUB RND SUB ANG, MOD CNSL, FAIR SCATD VFN FREE GRNS, MOD/WELL CALC CMT, TRC/FAIR INTGRN POR, FNT DUL GLD FLOR, NO VIS CUT _30% SHALE: DK GY/MD GY/SME LT GY, MD/SLTY TXT, SLI CALC, BLKY SPLTY/FLKY, BRTL/SLI HRD _20% SILT; MD/LT GY/LT BRN/RED, VVFN TO VFN GRN, FRM/SLI HRD, SLI CALC _10% LIME; TN LT TN CRM OFF WHT, VFN/MCRFN XLN, SLI ARGL, TRC INTXLN POR, NO VIS FLOR/CUT

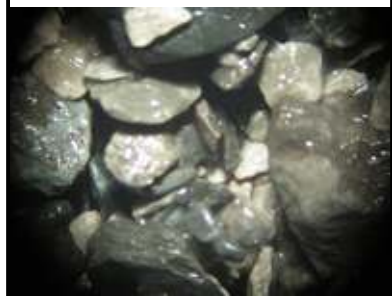
OSWEGO @ 2,738'



2,768'_35X_MAG

50% SAND; GY/LT GY/OFF WHT/SME FRSTD, MOD/WELL SRD, SUB RND TO RND, PRED TT W/FEW VIS SCATD FREE GRNS, MOD/WELL CALC CMT, FAIR INTGRN POR, TRC DK BRN STN, TRC SCATD DUL GLD FLOR NO CUT _25% SILT; MD/LT GY, VFN/VVFN GRN, MOD/FAIR SRD _20% LIME; TN/BRN /OFF WHT, VFN/FN XLN DNSE HRD, TRC VIS FRACT _5% SHALE; MD/DK GY, MD/SLI RGH/SLTY TXT, SLI CALC, BLKY/FLKY/CHNKY, FRM/SLI SFT, TRC EMBD PYR FLK

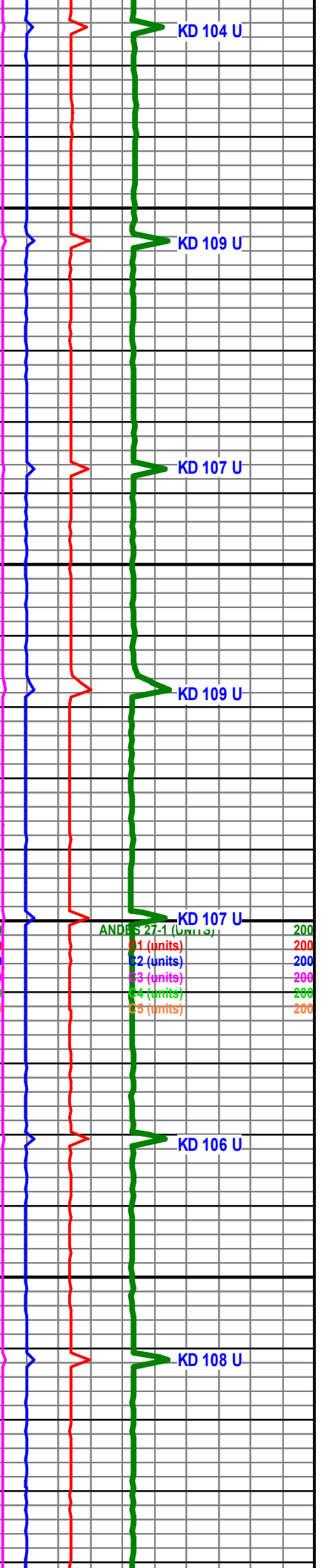
FORT SCOTT @ 2,826'

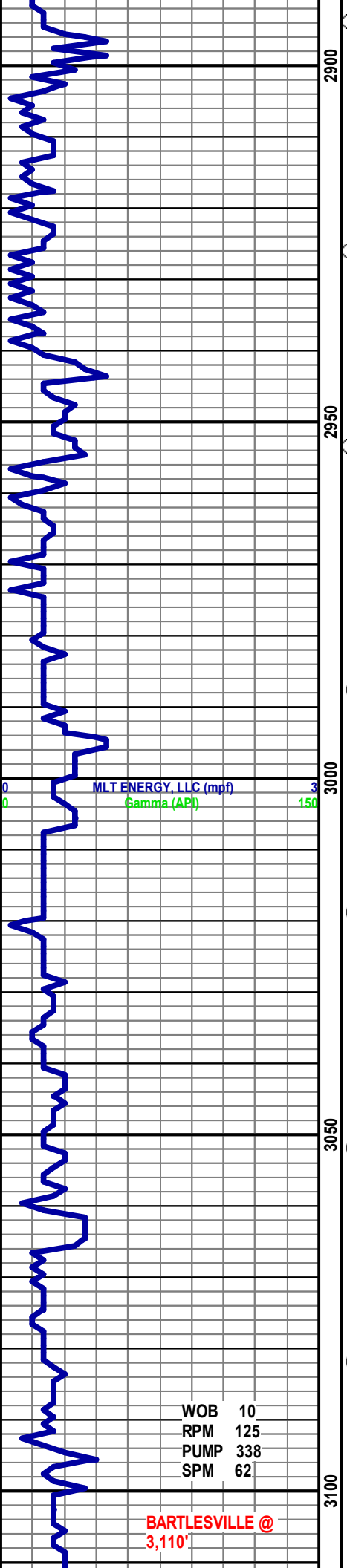


2,863'_35X_MAG

CHEROKEE @ 2,860'

40% LIME; TN/LT TN/SME CRM/LT GY,

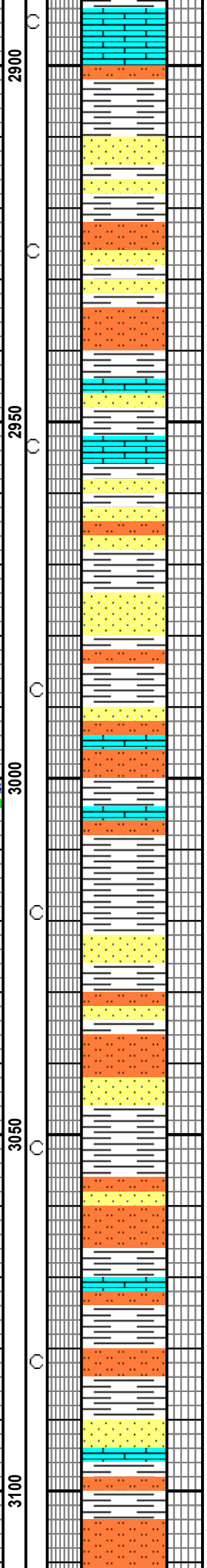




MLT ENERGY, LLC (mpf)
Gamma (API)

WOB 10
RPM 125
PUMP 338
SPM 62

BARTLESVILLE @
3,110'



VFN/MCRFN XLN, SLI ARGL, TRC
INTXLN POR, TRC/FAIR VIS FRACT, NO
VIS FLOR _30% SAND; FRSTD GY/OFF
WHT, VFN/FN GRN, SUB RND/RND,
MOD/FAIR SRTD, MOD/SME WELL
CNSL, TT IP, TRC INTGRN POR, TRC
DUL GLD TO FNT BRI YEL FLOR, WK
FNT MLKY CUT, NO RES _20% SHALE;
MD/LT GY/SME DK GY, MD RGH/SLI
SLTY TXT, BLKY/SPLTY PLTY, BRTL/SLI
FRM _10% SILT; MD GY/RED/CRM
MOD/WELL SRTD, VVFN/VFN GRN,
SUB RND/SUB ANG



2,956'_35X_MAG

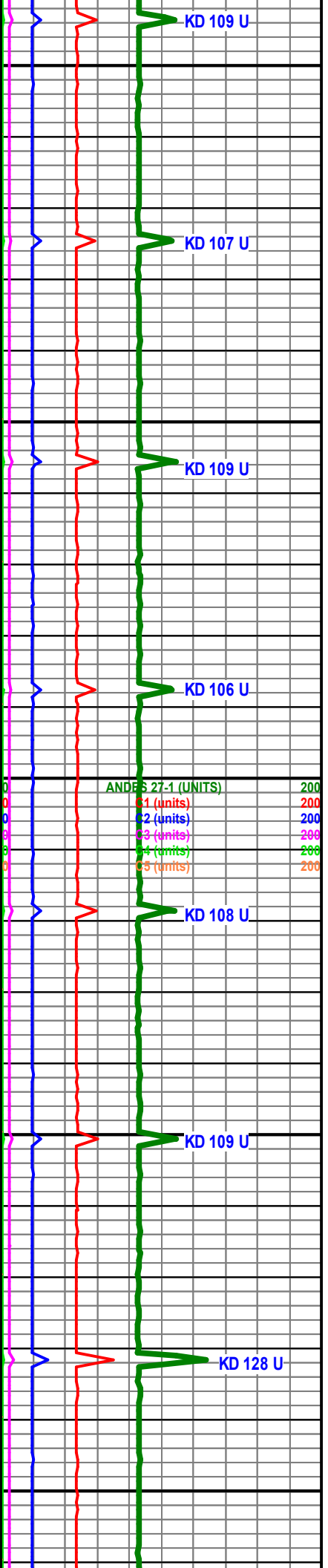
60% SHALE; MD/DK GY, FAIR CALC,
TRC CARB SPCS, CRSE/MD/SLI SLTY
TXT, SPLTY/FLKY/BLKY, FRM/BRTL
TRC PYR FLK _20% SILT; MD GY/OFF
WHT BRN/RED, FAIR SRTD, SUB
ANG/SUB RND, VFN/VVFN GRN _15%
SAND; WHT/OFF WHT/CRM/LT GY,
VVFN/VFN GRN, MOD/FAIR CNSL, MOD
TT, SUB RND/RND, MOD/WELL CALC
CMT, TRC INTGRN POR, FNT TRC DUL
GLD FLOR, NO CUT _5% LIME; CRM/TN
OFF WHT/BUF, VFN/FN XLN, DNS HRD,
TRC FRACT POR

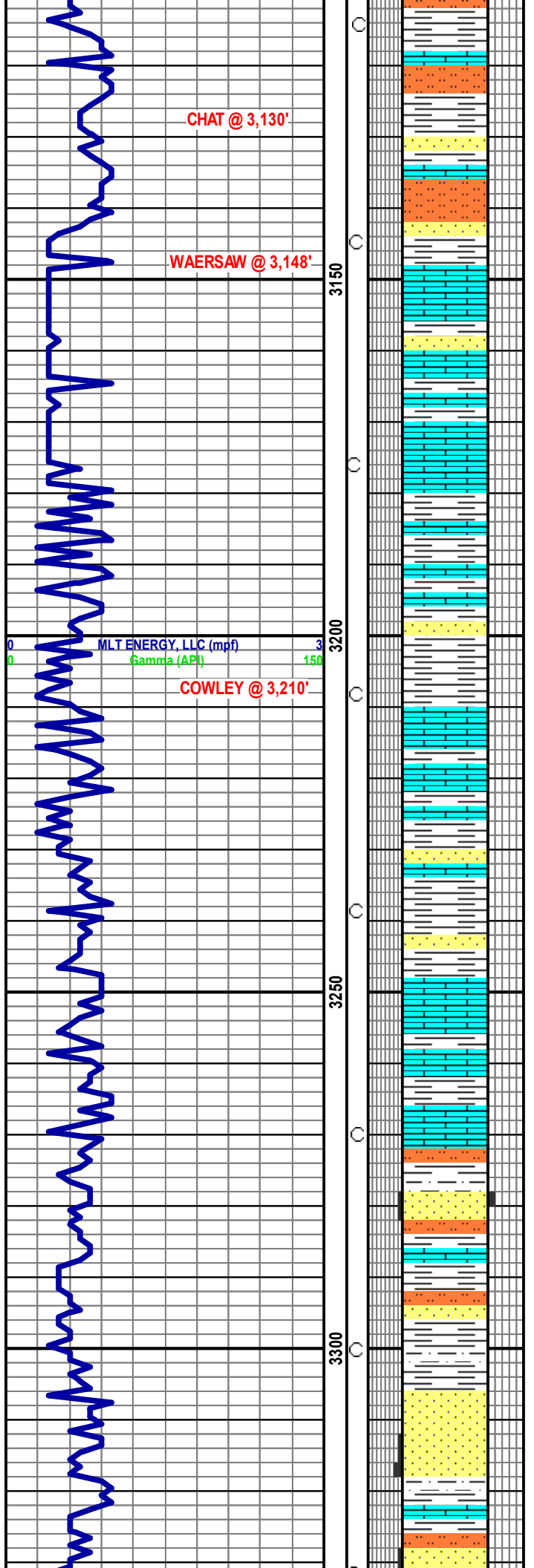


3,051'_35X_MAG

40% SHALE: DKG/ LT GY/MD GY, MD
/FN TXT SME SLI RGH, SLI CALC,
BLKY/FLKY/SPLTY, FRM/SLI SFT/ SME
HRD _30% SILT; LT/MED GRY, VVFN/FN
GRN, POOR SRTD _20% SAND; OFF
WHT/FRSTD/CRM,
VFN/MCRFN GRN, MOD/WELL
SRTD, SUB RND/SUB ANG, WELL
CNSL, V TT, MOD CALC CMT, TRC
INTGRN POR _10% LIME; CRM/TAN
/OFF WHT, VFN/VVFN XLN, TRC SUB
CHLKY, DNS/HRD TRC/FAIR FRACT
POR, NO CUT

BARTLESVILLE @ 3,110'





3,145'_35X_MAG
CHAT @ 3,130'

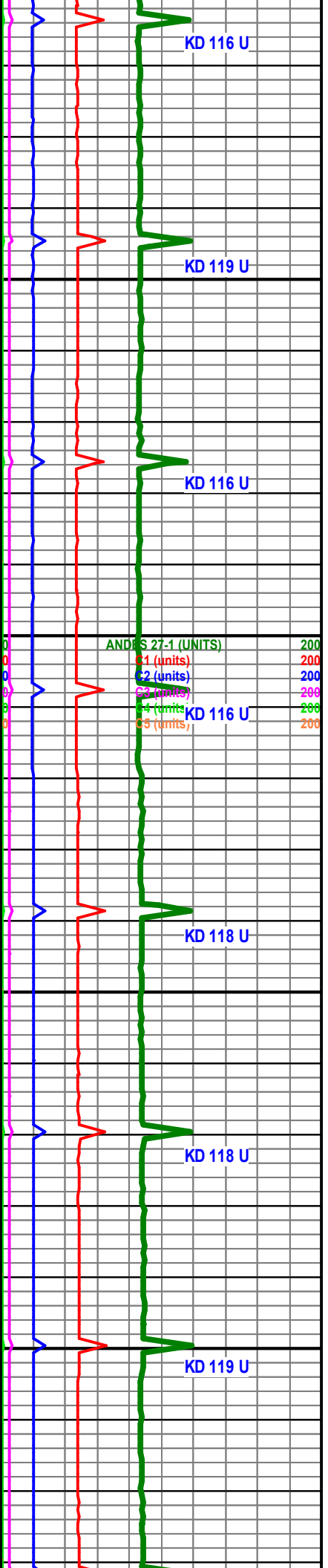
WAERSAW @ 3,148'
55% LIME; TN/LT TN/SME CRM, VFN TO MCRFN XLN, SLI ARGL, TRC INTXLN POR, NO VIS FLOR _30% SHALE; MD/DK GY, MD/SLI RGH TXT, SLI CALC, BLKY/CHNKY/SPLTY, FRM/SLI SFT _10% SAND; CRM/OFF WHT/FRSTD/GY, VFN/MCRFN GRN, SUB RND/RND, MOD/WELL CNSL, PRED TT, TRC VFN FREE GRNS, MOD/WELL CALC CMT, TRC INTGRN POR, NO VIS FLOR _5% SILT; MD/LT GY, VFN/FN GRN TXT, POOR SRTD

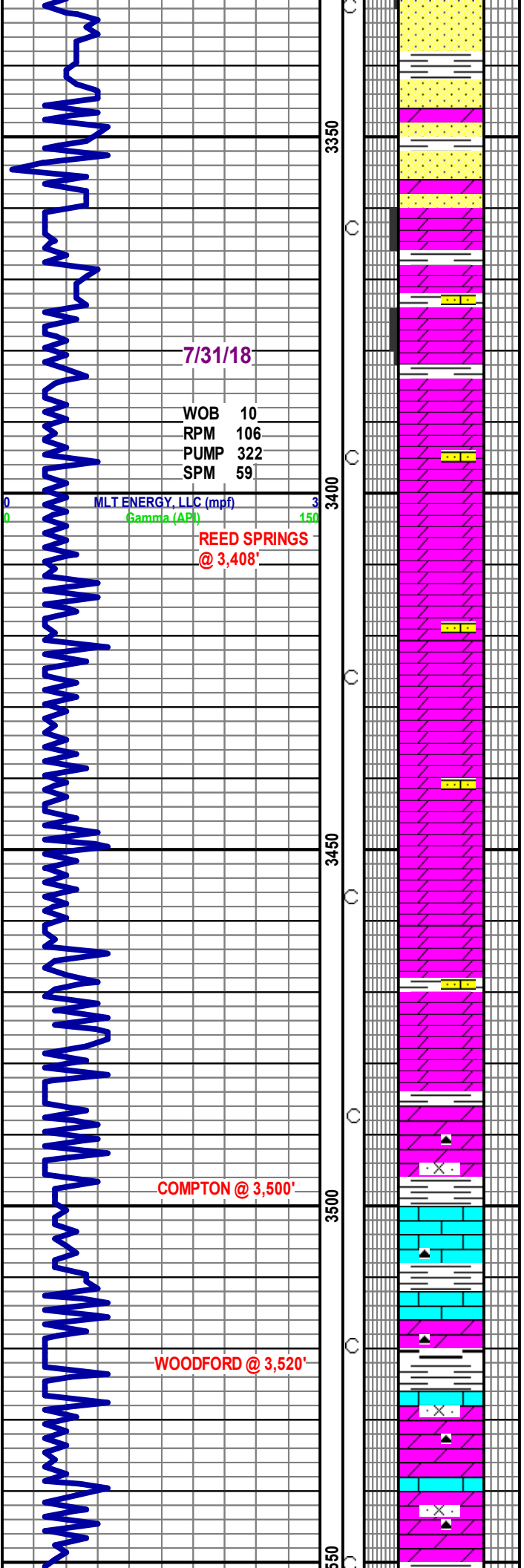
COWLEY @ 3,210'



3,239'_35X_MAG

40% LIME; LT GY/BRN/OFF WHT, VFN/FN/VVFN XLN, TRC FRACT POR _20% SHALE; DK/MD GY/LT GY, MD/FN/SLTY TXT, BLKY/FLKY/SPLTY FRM/BRTL _20% SILT; GY/DK GY/RED/BRN, MOD SRTD, VVFN/VFN GRN, MOD CNSL, FAIR/MOD CALC CMT, _20% SAND; TN/OFF WHT CRM/LT GY, VFN/FN GRN, FAIR/MOD SRTD, MOD/FAIR CNSL, TRC FRI, FAIR INGRN POR, FAIR/MOD CALC CMT, TRC DUL GLD FLOR, NO CUT





3,332'_35X_MAG

LOST CIRC @ 3,368' - REPAIR MUD
- CIRC 3 HRS - REGAIN CIRC -
RESUME DRILLING

LOST CIRC @ 3,379' - REPAIR MUD -
CIRC 2 HRS - REGAIN CIRC -
RESUME DRILLING

REED SPRINGS @ 3,408'

3,426'_35X_MAG

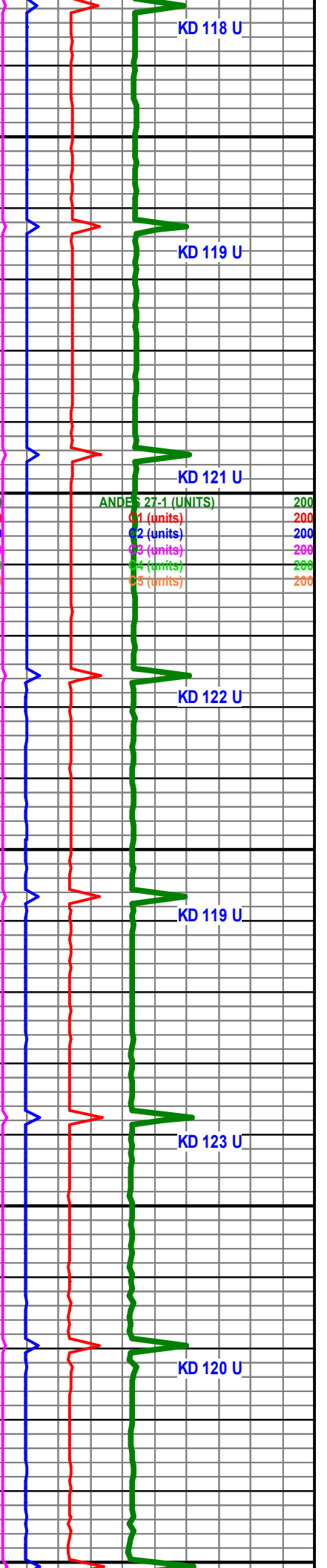
DOLO; WHT/OFF WHT/TN, HRD/DNSE
SME BRTL, FN/MD XLN, SUCR IP, TRC
EMBD CHRTY PCS, SUB RND/SUB ANG
DOLO GRNS, FAIR/MOD YEL FLOR,
FAIR INTXLN POR, WK DUL YEL FLOR,
NO VIS CUT

COMPTON @ 3,500'

3,520'_35X_MAG

WOODFORD @ 3,520'

60% DOLO; GY/LT GY/TN/OFF WHT,
HD/DNSE/SLI BRTL/ VFN/FN XLN, SLI
SUCR, TR FRACT, LIVE OIL STN VIS
_30% LIME; CRM/OFF WHT/TN,
HD/DNS/BRTL, VFN/FN/MD XLN, TRC
EMBD CALC, SFT WHT CHLKY PCS
THRU OUT. TRC DUL YEL FLOR. NO



CUT _ 10% SAND; TN/OFF WHT CRM/LT
GY, VFN/FN GRN, FAIR/MOD SRTD,
MOD/FAIR CNSL, TRC FRI, FAIR INGRN
POR, FAIR/MOD CALC CMT, TRC DUL
GLD FLOR, NO CUT

ARBUCKLE @ 3,578'



T.D._3,610'_ CIRC_35X_MAG

T.D. @ 3,610'

CIRCULATE 2 HOURS FOR
SAMPLES - SHORT TRIP -
TOOH FOR LOGS & CSG.

BIT #2 SMITH - 7 7/8 - M616 -
3/18 JETS - PDC - IN 223',
OUT @ 3,610', DRLG. 3,387'

FINAL LOG

ARBUCKLE @ 3,578'

WOB 10
RPM 106
PUMP 322
SPM 59

MLT ENERGY, LLC (mpf)
Gamma (AP)

TD @ 3,610'

KD 124 U

84 U MINOR
SHOW

KD 126 U

ANDES 27-1 (UNITS)

C1 (units)

C2 (units)

C3 (units)

C4 (units)

C5 (units)

130 U BOTTOMS UP
CIRCULATION

200
200
200
200
200