



This Form must be Typed
Form must be Signed
All blanks must be Filled

WELL PLUGGING APPLICATION

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act,
MUST be submitted with this form.

OPERATOR: License #: _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____

API No. 15 - _____
If pre 1967, supply original completion date: _____
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 #: _____

Check One: Oil Well Gas Well OG D&A Cathodic Water Supply Well Other: _____
 SWD Permit #: _____ ENHR Permit #: _____ Gas Storage Permit #: _____

Conductor Casing Size: _____ Set at: _____ Cemented with: _____ Sacks
Surface Casing Size: _____ Set at: _____ Cemented with: _____ Sacks
Production Casing Size: _____ Set at: _____ Cemented with: _____ Sacks

List (ALL) Perforations and Bridge Plug Sets:

Elevation: _____ (G.L. / K.B.) T.D.: _____ PBTD: _____ Anhydrite Depth: _____
(Stone Corral Formation)

Condition of Well: Good Poor Junk in Hole Casing Leak at: _____
(Interval)

Proposed Method of Plugging (attach a separate page if additional space is needed):

Is Well Log attached to this application? Yes No Is ACO-1 filed? Yes No

If ACO-1 not filed, explain why:

Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq. and the Rules and Regulations of the State Corporation Commission

Company Representative authorized to supervise plugging operations: _____
Address: _____ City: _____ State: _____ Zip: _____ + _____
Phone: (_____) _____
Plugging Contractor License #: _____ Name: _____
Address 1: _____ Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Phone: (_____) _____

Proposed Date of Plugging (if known): _____

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Submitted Electronically



CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1 (Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)

OPERATOR: License # _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____ Fax: (_____) _____
Email Address: _____

Well Location:
____ - ____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ East West
County: _____
Lease Name: _____ Well #: _____

If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:

Surface Owner Information:

Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____

When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

Select one of the following:

- I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

I Submitted Electronically

I



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

Well Name: CRAMER TRUST #1 CATO EXPLORATION, LLC
Location: Sec. 27-16S-30W LANE Co., KS
License Number: 15-101-22527 Region: WILDCAT
Spud Date: 07/07/2014 Drilling Completed: 07/18/2014
Surface Coordinates: SHL: 1420' FWL & 1320' FSL OF
Sec. 27-16S-30W LANE CO., KS
Bottom Hole REPORT FOR: MR. MACK BLACKFORD
Coordinates: LOGGER: MR. LEVI CAMPBELL
Ground Elevation (ft): 2796' K.B. Elevation (ft): 2803'
Logged Interval (ft): 1517' To: 4350' Total Depth (ft): 4350'
Formation: LANSING/ KANSAS CITY
Type of Drilling Fluid: FRESH WATER/NATIVE MUD

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

CORE

Contractor: HALIBURTON
Core #: 1
Formation: LANSING D
Core Interval: From: 3978' To: 4038' Cut: 60'
Recovered: 58'
Bit type: IADC- M333: TYPE- FC3643A: SN-12143387
Size: 7 7/8"
Coring Time: 9.33 HRS

OPERATOR

Company: CATO EXPLORATION, LLC
Address: 15 EAST 5TH ST. , STE 2100
TULSA, OK 74103

GEOLOGIST

Name: MR. MACK BLACKFORD
Company: CATO EXPLORATION, LLC
Address: 15 EAST 5TH ST. , STE 2100
TULSA, OK 74103

Cores

CONTRACTOR: HALIBURTON
RUN #2 FROM: 4038' TO: 4067'
CUT: 29' RECOVERED: 29.65'
SIZE: 7 7/8"
IADC- M333: TYPE- FC3643A: SN-12143387
CORING TIME: 1.6 HRS




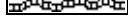
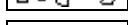
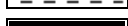





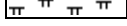

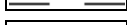
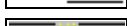





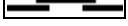
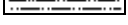











CONTRACTOR: HALIBURTON
RUN #3 FROM: 4156' TO: 4217'
CUT: 61' RECOVERED: 61.7'
SIZE: 7 7/8"
IADC- M333: TYPE- FC3643A: SN-12143387
CORING TIME: 3 HRS

Well Information





































DRILLING CONTRACTOR: MAVERICK RIG 102
MUD CO.: MUD-CO / SERVICE MUD, INC.
ENGINEER- TYLER LANG
MUD LOGGING: XGP
LOGGER: LEVI CAMPBELL (405) 397-5932
levi.campbell@xgpmudlogging.com

BH: 5035/5032 TRAILER: H5 HASP: 4 MAC:6

ROCK TYPES

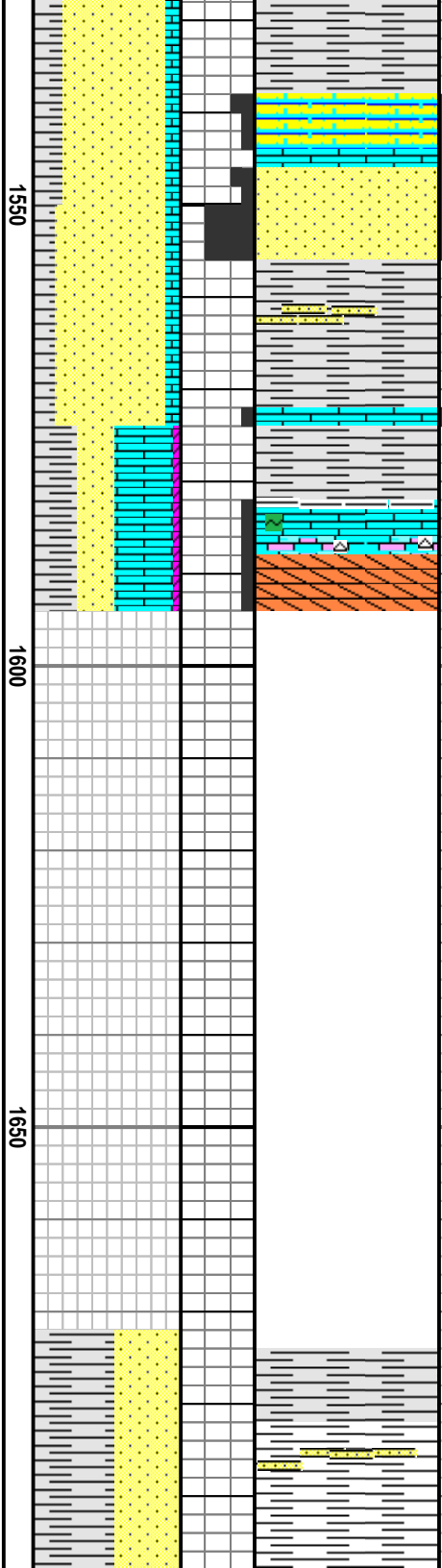
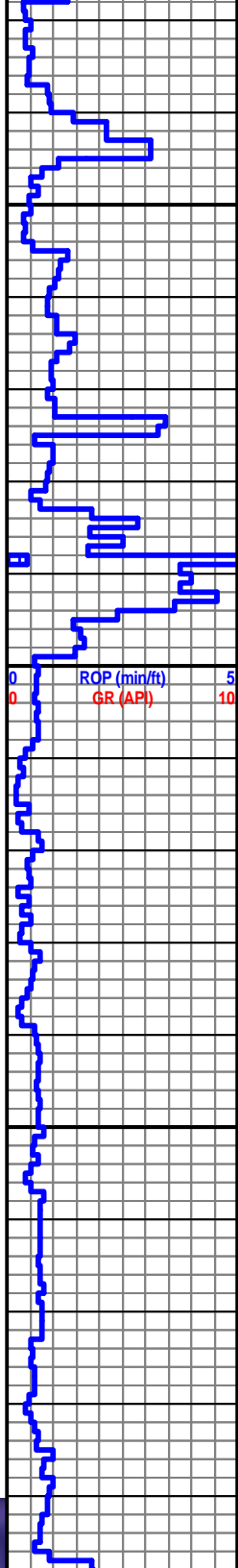
 Calc cmtd dolo  Chrt_gnrnr  Lmystlst  Bent  Brec  Clyst  Coal  Congl  Dol	 Igne  Lmst  Mrlst  Shale  Shale  Shcol  Sltysh  Shgy  Ss	 Till  Sandylms  Hotsh  Sltst  Dolc ss  Lmysnd  Calc dolo  Dolomtc lm  Dolo cmtd lm	 Trip chrt  Spic chrt  Dolc chrt  Dk chrt  Chrt  Calc chrt
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ACCESSORIES

FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra  Pelec  Pellet	 Pisolite  Plant  Strom  Crin MINERAL  Arggrn  Arg  Bent  Bit  Brecfrag  Carb  Chtdk  Chtlt  Feldspar  Qtz  Hvymin  Kaol	 Marl  Minxl  Phos  Pyr  Silt  Sil  Calc  Sand  Dol  Sidrte  Glauc STRINGER  Arg  Bent  Coal  Dol  Ls	 Mrst  Ssstrg  Sltstrg TEXTURE  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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WOB- 20K
RPM- 75
PP- 900
SPM- 58

WOB- 25K
RPM- 80 PP-
500 SPM-
60



FRM, OCC MOD HRD, MED U TO CRSE L GRN, SUB ANG TO SUB RNDD, OCC RNDD, PR TO MOD CONSL, PR TO MOD SRTD, OCC CALC CMT, NO VIS STAIN, NO ODOR, TR PR TO FR INTRGRNLR POR, TR PALE YEL FLOR, OCC STRW FLOR, NO VIS CUT, NO VIS RES RING

SS: OPQ TO TRNSL, OCC CLR, MOD FRM TO FRM, SCAT MOD HRD, MED U TO CRSE L GRN, SUB ANG TO SUB RNDD, OCC RNDD, PR TO MOD CONSL, PR TO MOD SRTD, OCC CALC CMT, NO VIS STAIN, NO ODOR, OCC PR TO FR INTRGRNLR POR, TR PALE YEL FLOR, TR STRW FLOR, NO VIS CUT, VFNT THN LT BLU RES RING

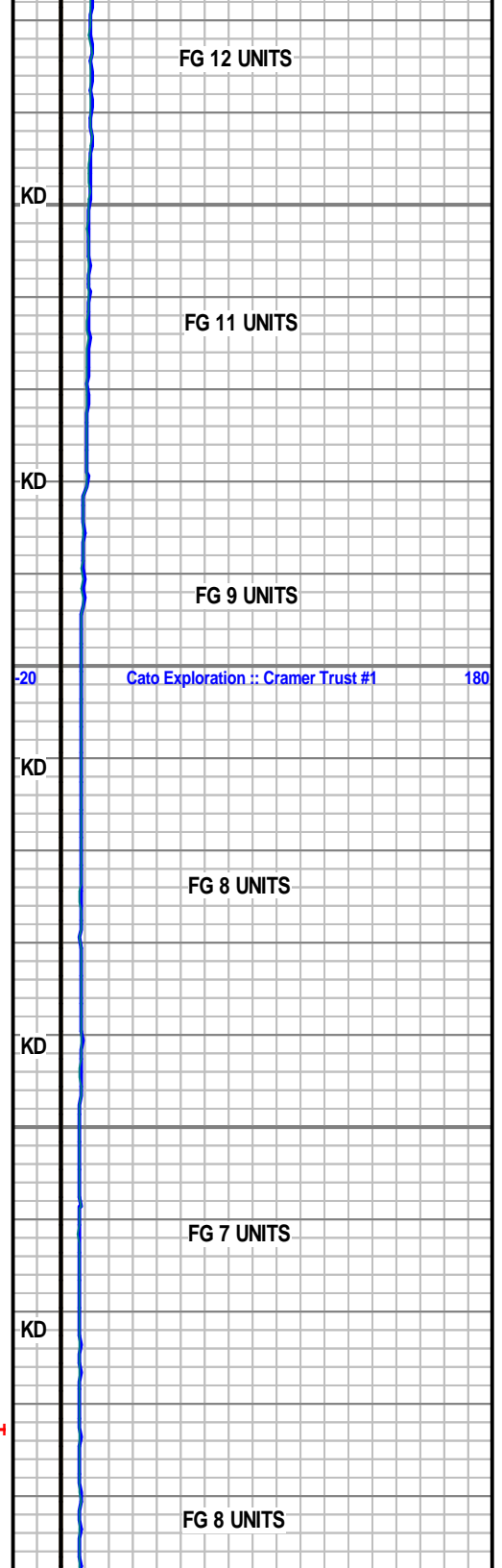
LS: CRM TO LT TAN, TR OFF WHT, MOD FRM, SM FRM, SM BRTL, MICRO TO V/FN XLN, PLTY/BLKY, OCC CHNKY, TR ARG, TR INTRBD DOLO, OCC GLAUC, SM GYPSM, NO VIS STAIN, OCC XLN POR, OCC HAIRLINE FRAC, SCAT PALE YEL FLOR, SCAT YEL FLOR, NO VIS CUT, NO VIS RES RING

NO SAMPLE DUE TO POSSUM BELLY OVER TURNING

NO SAMPLE DUE TO POSSUM BELLY OVER TURNING

FLOWER POT @ 1683'
(1120')

SS: OPQ TO TRNSL, SCAT CLR, OCC OFF WHT, OCC LT GY, FRM TO MOD HRD, OCC MOD FRM, MOTLY FUL GRN, OCC MED U TO CRSE L GRN

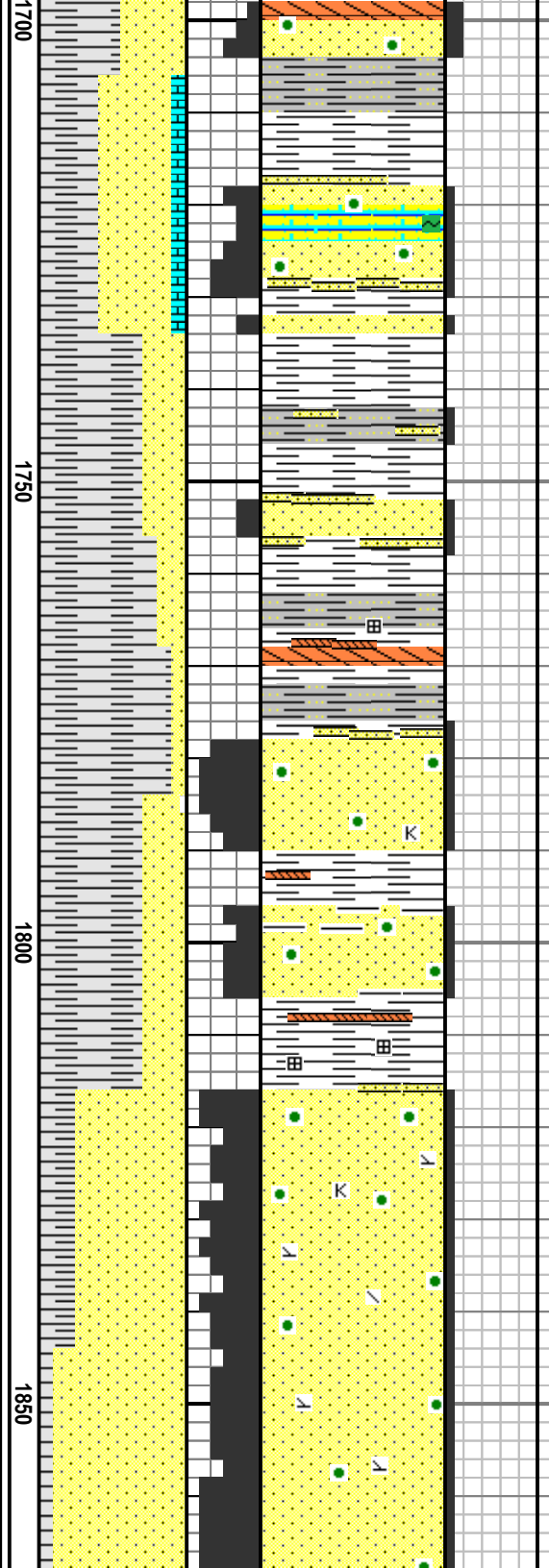
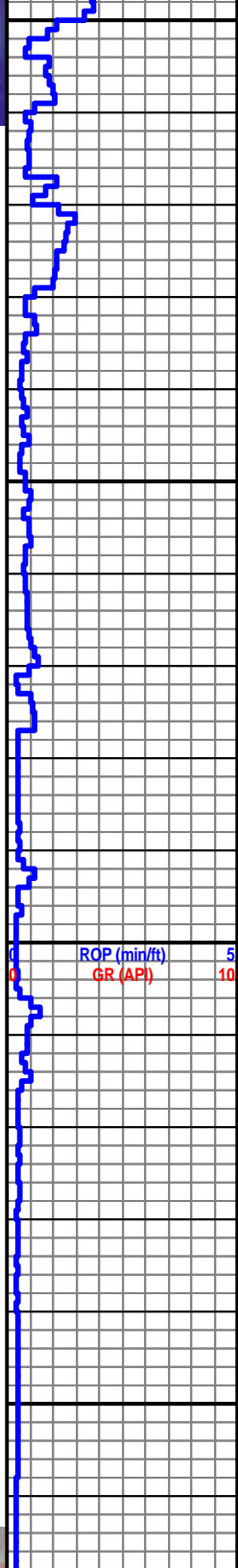




07/11/2014

RIG SERVICE -
WORK ON MUD
PUMP

WOB-28K
RPM-75
PP- 650
SPM- 60



MSTLY FN L GRNS, OCC MED U TO CRSE L SUB
RND GRN, ANG, SCAT SUB ANG, PR CONSL TO
BECMNG UNCONSL, PR TO MOD SRTD, TR CALC
CMT, OCC GLAUC, OCC LT BRN SPOT STAIN, NO
ODOR, OCC PR XGRNLR POR, SM LAM SH: RD
TO RDSH/BRN, MOD SFT, TR BRTL, V/FN TO FN
TXT, ERTHY LSTR, PLTY, OCC SLTY IP., TR STRW
FLOR, IMM D PALE YEL STRMING CUT
W/CRUSHED, FR SPTY YEL RES RING

SH: ORNG, RDSH/ORNG, GRN MOTT, SCAT
ORNG/BRNSH, MOD FRM, TR BRTL, V/FN TXT, TR
FN TO STLY TXT, MSTLY ERTHY LSTR, CHNKY,
OCC BLKY, OCC AREN, OCC LENTC GYPSM, TR
LAM/LENTC SS: OPQ TO OFF WHT, MOD FRM TO
SCAT FRM, V/FN U TO FN L GRNS, ANG TO SM
SUB ANG GRNS, WELL CONSL, MOD TO FR
SRTD, SIL CMT, TR WELL IND, NO VIS STAIN, NO
ODOR, TR XGRNLR POR, TR DULL AMBER FLOR,
NO VIS CUT

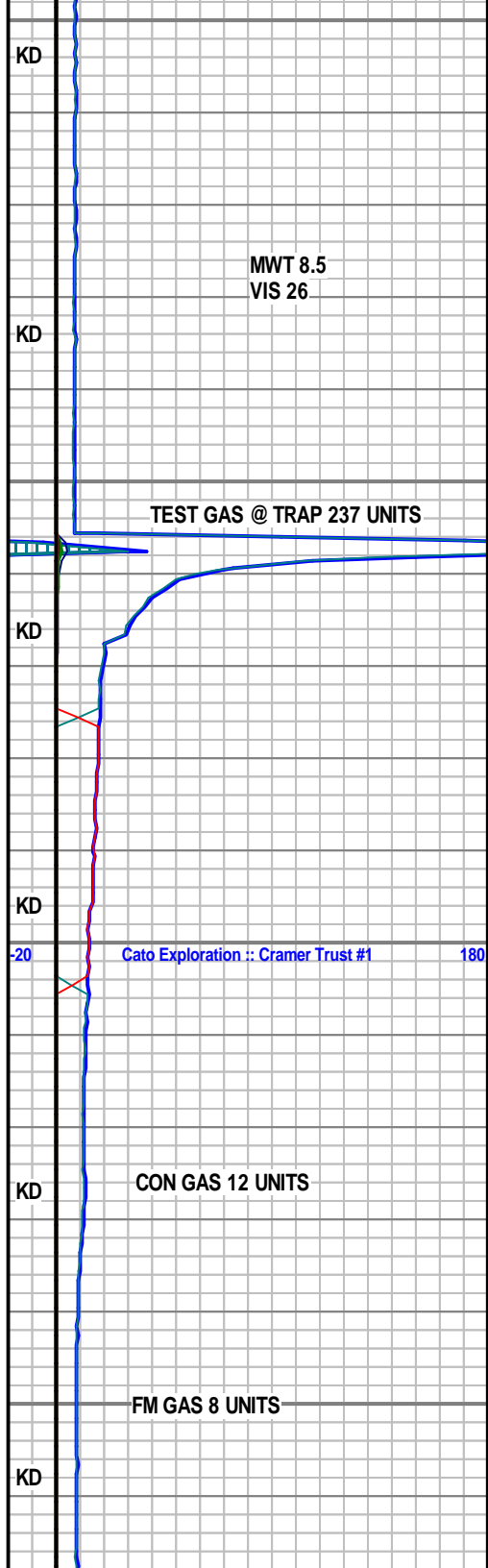


CEDAR HILLS @ 1767'

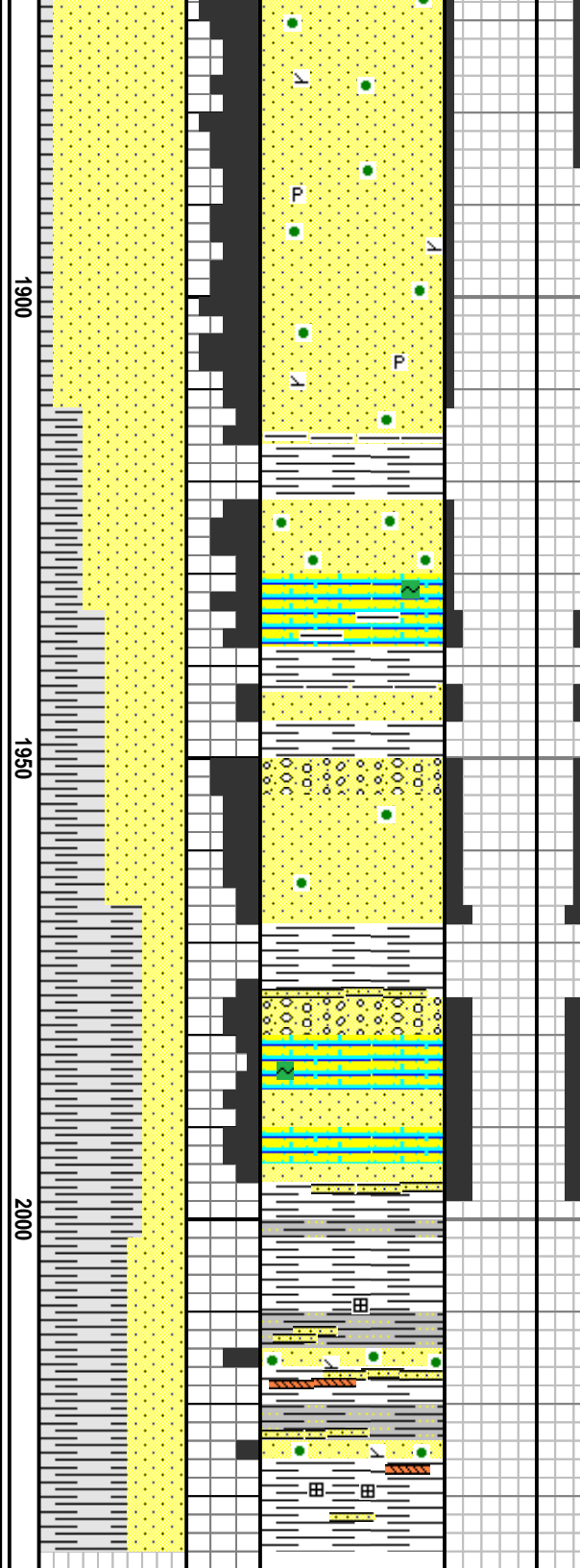
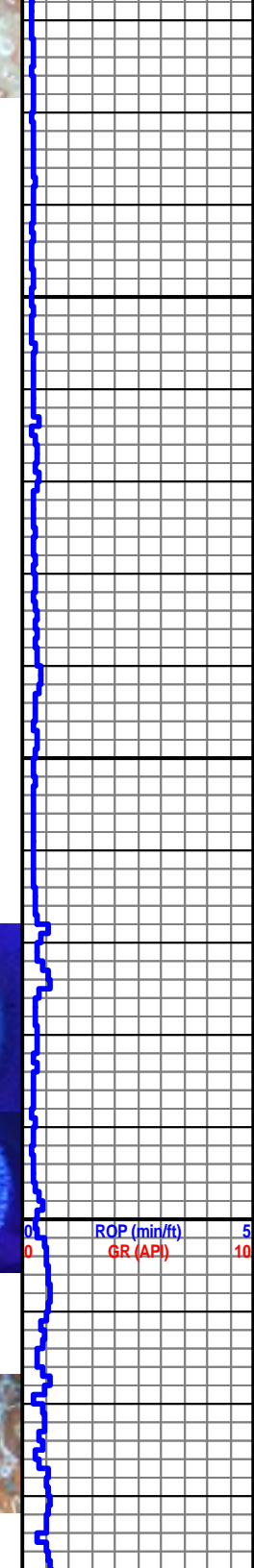
(1036')

SS: OPQ TO TRNSL, TR FRSTD, OCC OFF WHT,
FEW CLSTRS, FN L TO FN U GRNS, TR MED L
GRNS, RND TO SUB RND, MSTLY UNCONSL, MOD
TO WELL SRTD, SIL CMT, OCC FERR CTG GRNS,
OCC INTST KAOL, OCC SPTY ASPHLTC CTG ON
GRNS, NO ODOR, ABNDNT XGRNLR POR, TR
LAM SH: ORNG TO ORNG/BRNSH, SCAT
RDSH/ORNG, MOD FRM, V/FN TO SLTY TXT,
ERTHY LSTR, CHNKY, OCC IMBDD HALITE, OCC
PALE YEL FLOR, TR V/WK SLO BLMNG PALE
YEL CUT, NO VIS RES RING

SS: OPQ TO TRNSL, TR FRSTD, OCC OFF WHT,
FEW CLSTRS, FN L TO FN U GRNS, TR MED L
GRNS, RND TO SUB RND, MSTLY UNCONSL, MOD
TO WELL SRTD, SIL CMT, OCC FERR CTG GRNS,
OCC INTST KAOL, OCC SPTY ASPHLTC CTG ON
GRNS, NO ODOR, ABNDNT XGRNLR POR, OCC
PALE YEL FLOR, TR V/WK SLO BLMNG PALE
YEL CUT, V/WK SPTY PALE YEL RES RING



WOB-30K
RPM- 75
PP-650/700
SPM-60



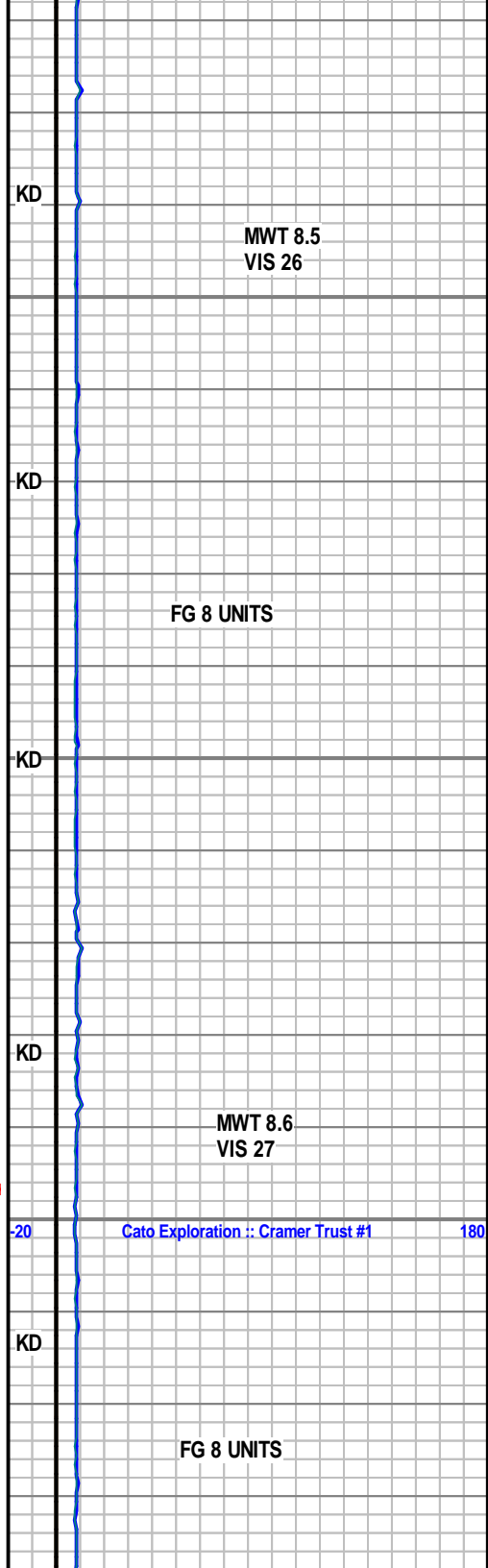
SS: OPQ, FRSTD, TRSNL, OCC TO TR OFF WHT, FEW CLSTRS, MOD FRM, FRI, FN U TO SM FN L GRNS, OCC MED L GRNS, RND TO TR SUB RND GRNS, MSTLY UNCONSL, WELL SRTD, SIL CMT, SCAT FERR CTD GRNS, OCC MIN MASS PYR, NO VIS STAIN, NO ODOR, ABNDNT XGRNLR POR, OCC DULL YEL FLOR, NO VIS CUT, NO VIS RES RING

SS: OFF WHT TO OPQ, SCAT TRNSL, TR FRSTD, FRM, SCAT MOD FRM, TR TO SCAT FRI, FN L TO TR FN U GRNS, SCAT V/FN L GRNS, FINING DOWNWARD, SUB ANG TO TR ANG GRNS, WELL CONSL, MOD SRTD, TR CALC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, SCAT XGRNLR POR, SM LAM SH: ORNG, RDSH/ORNG, MOD SFT TO MOD FRM, OCC BRTL, V/FN TO TR SLTY TXT, ERTHY LSTR, CHNKY, TR BLKY, TR BLU/WHT FLOR, V/WK TO WK SLO STRMNG WHT CUT, WK LRG SPTTY PALE YEL RES RING

SS: OFF WHT TO OPQ, SCAT TRNSL, TR FRSTD, FRM, SCAT MOD FRM, TR TO SCAT FRI, FN L TO TR FN U GRNS, SCAT V/FN L GRNS, FINING DOWNWARD, SUB ANG TO TR ANG GRNS, WELL CONSL, MOD SRTD, TR CALC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, SCAT XGRNLR POR, SM LAM SH: ORNG, RDSH/ORNG, MOD SFT TO MOD FRM, OCC BRTL, V/FN TO TR SLTY TXT, ERTHY LSTR, CHNKY, TR BLKY, SCAT BLU/WHT FLOR, IMMDD FR STRMNG WHT CUT, FR LRG SPTTY PALE YEL RES RING

+++++
SALT PLAIN @ 1997'
(806')

SH: ORNG, RDSH/ORNG, MOD SFT TO MOD FRM, OCC BRTL, V/FN TO TR SLTY TXT, ERTHY LSTR, CHNKY, TR BLKY, OCC AREN, SM MUDST, OCC IMBDD FN XLN HALITE, TR LENTC TO LAM SS: OPQ, TRNSL TO TRNSP, SCAT FRSTD, V/FEW CLUSTRS, FN U TO TR FN L GRNS, RNDD GRNS, MSTLY UNCONSL, FR SRTD, SM TO SCAT V/LT FERR CTD GRNS, OCC IMBDD GYPSM, NO VIS STAIN, NO ODOR, SM TO ABNDNT XGRNLR POR, NO VIS FLOR, NO CUT



MWT 8.5
VIS 26

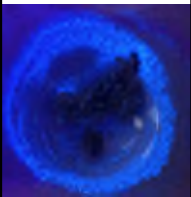
FG 8 UNITS

MWT 8.6
VIS 27

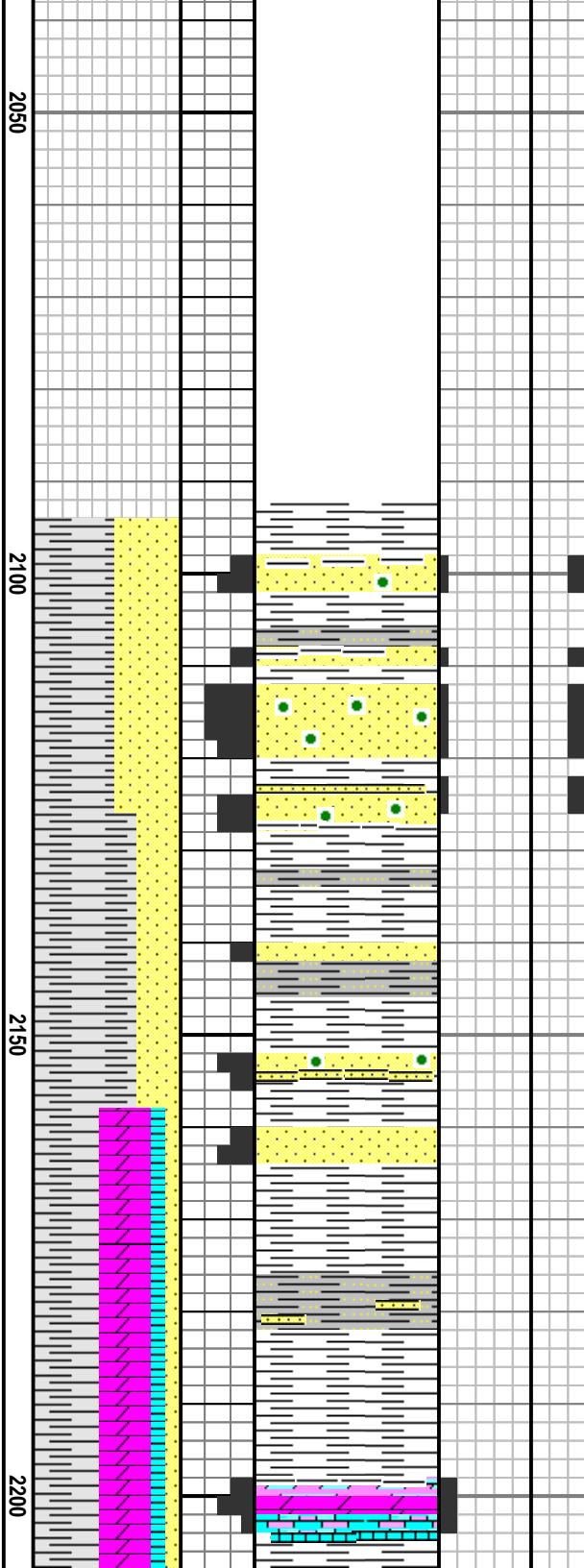
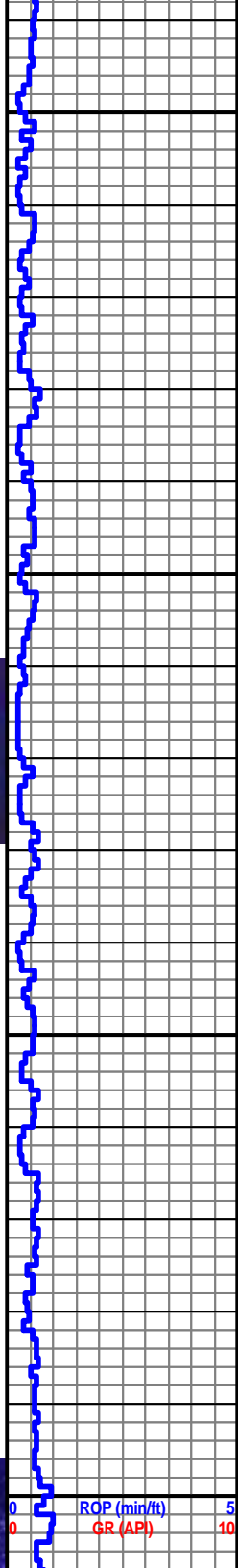
Cato Exploration :: Cramer Trust #1

FG 8 UNITS

WOB-30K
RPM-80
PP-800
SPM-60



WOB-30K
RPM-80
PP-850
SPM-60



NO SAMPLES

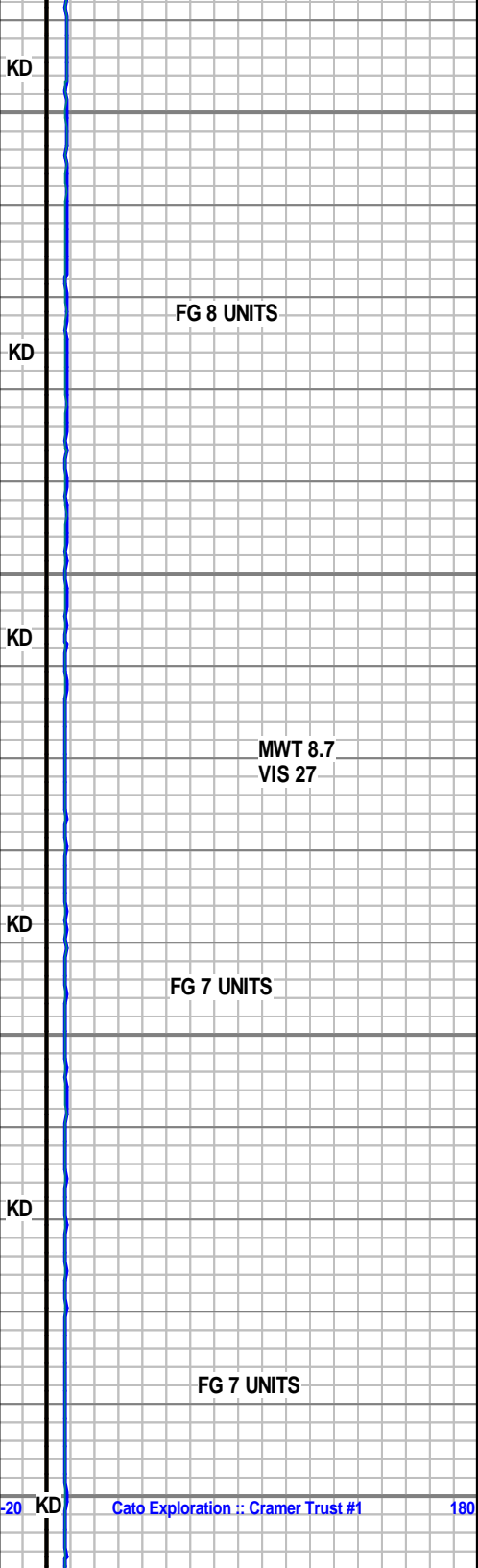
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SH: ORNG, RDSH/ORNG, MOD SFT TO MOD FRM, OCC BRTL, V/FN TO TR SLTY TXT, ERTHY LSTR, CHNKY, TR BLKY, SM MUDST, TR LENTC TO LAM SS: OPQ, TRNSL TO TRNSP, SCAT FRSTD, V/FEW CLUSTRS, FN U TO TR FN L GRNS, RNDD GRNS, MSTLY UNCONSL, FR SRTD, SM TO SCAT V/LT FERR CTD GRNS, NO VIS STAIN, NO ODOR, SM TO ABDNNT XGRNLR POR, NO VIS FLOR, NO CUT

STONE CORRAL @ 2199'

+++++ (604) +++++

DOLO: OFF WHT. GYSH. TR OPQ TO TRNSL. MOD



FG 8 UNITS

MWT 8.7
VIS 27

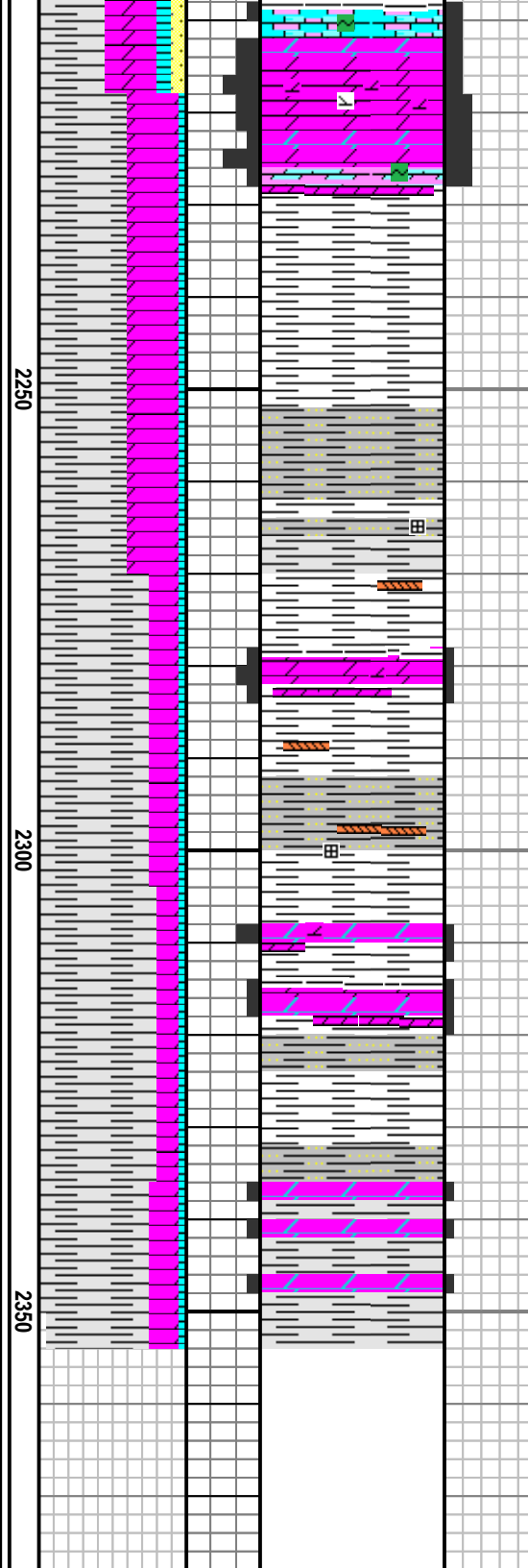
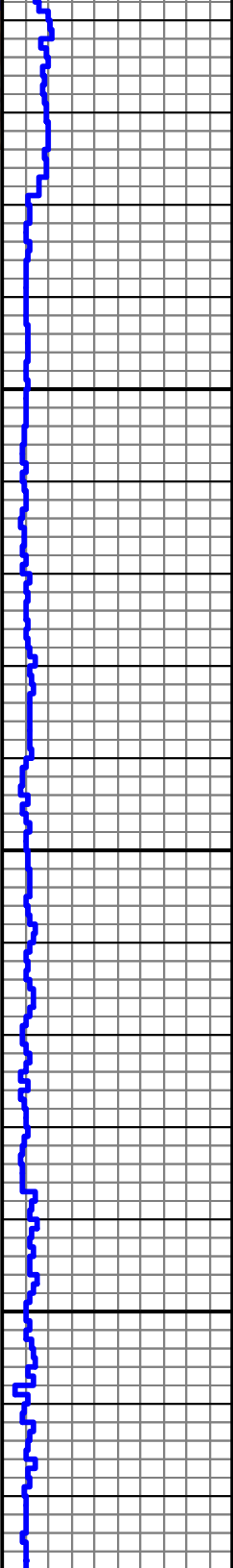
FG 7 UNITS

FG 7 UNITS



RIG SERVICE -
WORK ON MUD
PUMP

WOB-32K
RPM-80
PP-700
SPM-60



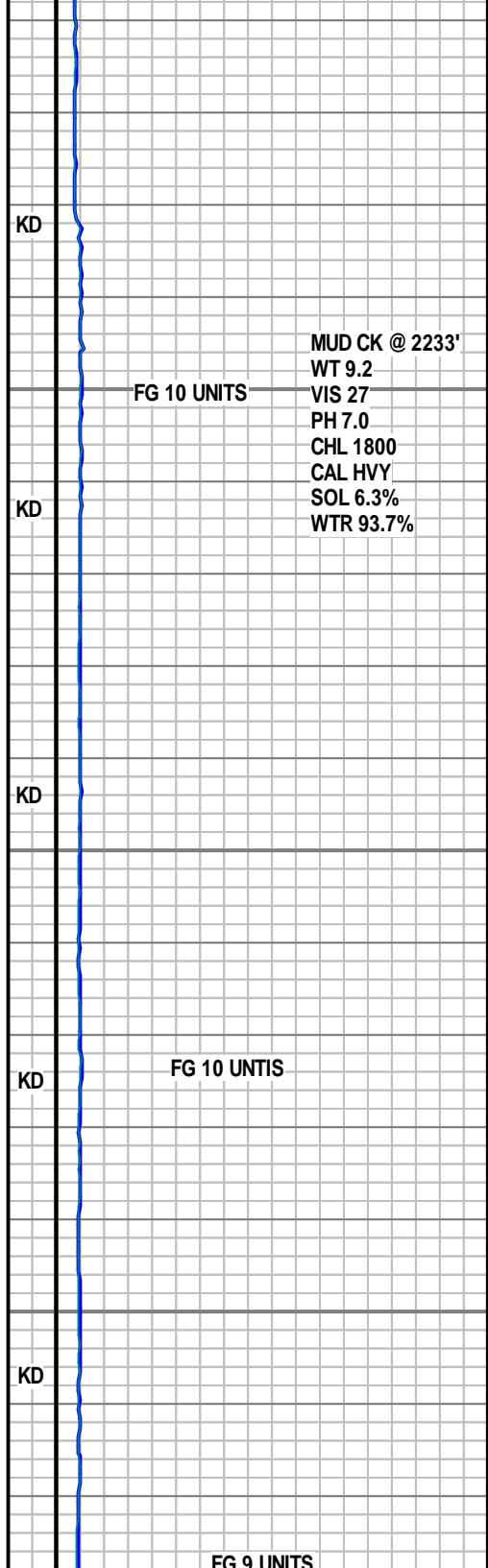
FRM, SM BRTL, FN TO SM V/FN XLN, MSTLY
CHNKY, SCAT PLTY, TR CALC CMT, TR INTRBD
LS, TR DRSY DOLO RHOMBS/EUHED W/OCC
FERR, OCC GLAUC, NO VIS STAIN, NO ODOR,
SCAT TO SM XLN POR, OCC PP POR, SCAT DULL
YEL FLOR, NO VIS CUT

SH: ORNG, RDSH/ORNG, OCC GY TO LT GY, MOD
SFT TO MOD FRM, OCC BRTL, V/FN TO INCRSE
SLTY TXT, ERTHY LSTR, CHNKY, TR BLKY, SM
MUDST, NON CALC

SH: ORNG, SM RDSH/ORNG, TR TAN/ORNG, TR
GRNSH MOTT, OCC TAN MOTT, MOD SFT TO MOD
FRM, OCC BRTL, V/FN TXT, OCC SLTY, V/DULL TO
ERTHY LSTR, MSTLY CHNKY, OCC BLKY, NON
CALC, OCC AREN, TR LENTC /THN BDD GYPSM,
OCC IMBDD HALITE, TR LAM DOLO: LT CRM TO
CRM, TR LT TANSH, TR LT GY MOTT, MOD FRM,
SCAT BRTL, V/FN TO MICRO XLN, TR FN XLN,
BLKY, SM CHNKY, TR CALC, OCC V/FN DRSY
DOLO RHOMBS, NO VIS STAIN, NO ODOR, TR
HAIRLINE FRAC, TR PP POR, OCC XLN POR, TR
TO OCC V/DULL YEL TO DK YEL FLOR, NO VIS
CUT

SH: ORNG, SM RDSH/ORNG, MOD SFT TO MOD FRM, OCC
FRM, V/FN TXT, V/DULL TO ERTHY LSTR, CHNKY, OCC BLKY,
NON CALC, TR DOLO: LT CRM TO CRM, OCC LT TAN, V/FN TO
MIC XLN, BLKY, SCAT CHNKY, TR CALC, NO VIS STAIN, NO
ODOR, OCC HL FRAC POR, OCC XLN POR, OCC PALE YEL TO
YEL FLOR, OCC STRW FLOR, NO VIS CUT, NO VIS RES RING

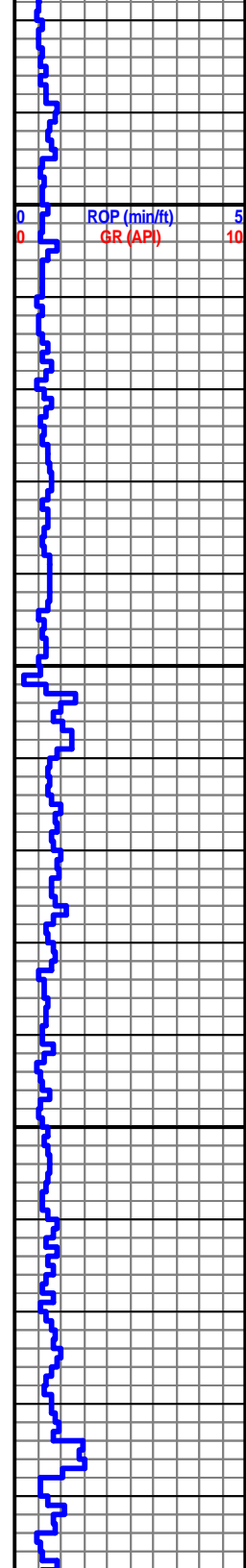
NO SAMPLE CAUGHT



MUD CK @ 2233'
WT 9.2
VIS 27
PH 7.0
CHL 1800
CAL HVY
SOL 6.3%
WTR 93.7%

FG 9 UNITS

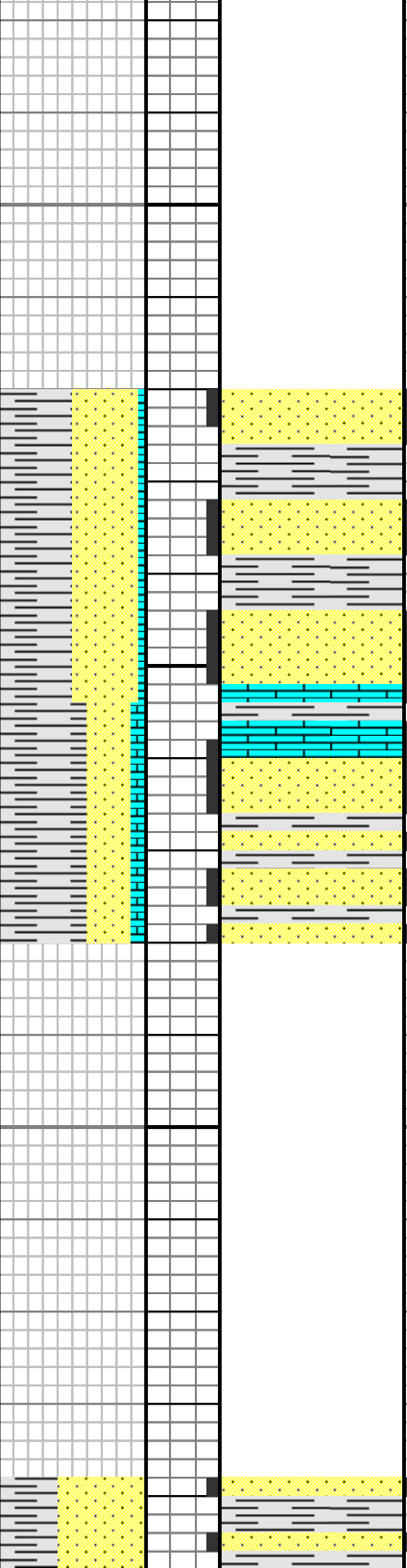
WOB- 28K
RPM- 80
PP- 900
SPM- 58



2400

2450

2500



NO SAMPLE CAUGHT

SH: GY, SM LT GY, SM ORNG, SCAT RDSH/ORNG, MOD SFT TO MOD FRM, OCC SFT, OCC BRTL, V/FN TO FN TXT, OCC SLTYIP, DULL TO ERHTY LSTR, CHNKY, OCC PLTY, NON CALC, TR SS: CLR TO TRNSL, SCAT OPAQ, TR FRSTD, OCC WHT, MOD SFT TO MOD FRM, TR FRI, FN U TO FN L GRN, SUB RNDD, SCAT SUB ANG, OCC RNDD, MOD CONSL, MOD SRD, SIL CMT, NO VIS STAIN, NO ODOR, TR XGRNLR POR, OCC PALE YEL TO STRW FLOR, NO VIS CUT, NO RES RING

SH: ORNG, SM RDHS/ORNG, SM GY, SCAT LT GY, MOD SFT TO MOD FRM, OCC BRTL, OCC SFT, V/FN TO FN TXT, OCC SLTYIP, DULL TO ERHTY LSTR, CHNKY, SM PLTY, NON CALC, SCAT SS: OFF WHT TO LT GY, OCC CLR, OCC TRNSL, MOD SFT TO MOD FRM, OCC FRI, OCC FRM, FN U TO FN L GRN, SUB RNDD TO SUB ANG, OCC RNDD, MOD CONSL, MOD SRD, SIL CMT, NO VIS STAIN, NO ODOR, SM XGRNLR POR, OCC STRW TO PALE YEL FLOR, NO VIS CUT, NO RES RING

NO SAMPLE CAUGHT

NO SAMPLE CAUGHT

SS: OFF WHT TO LT GY, OCC LT CRM, MOD SFT TO MOD FRM, OCC FRI, OCC FRM, V/FN U TO FN L GRN, SUB RNDD TO SUB ANG, TR RNDD, MOD CONSL, MOD SRD, SIL CMT, NO VIS

KD

-20

KD

KD

KD

KD

KD

Cato Exploration :: Cramer Trust #1

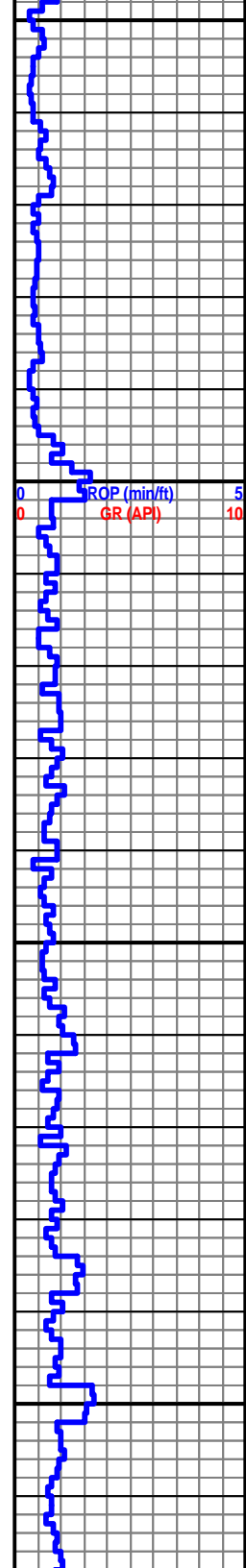
180

FG 9 UNITS

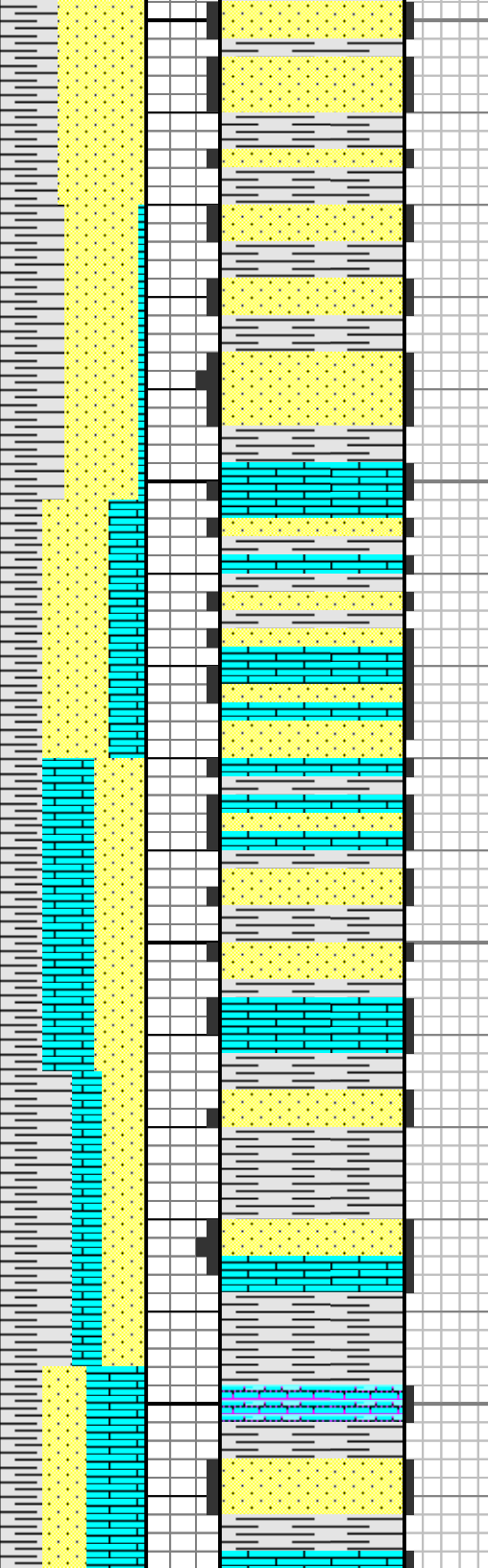
FG 9 UNITS

FG 10 UNITS

WOB- 30K
RPM- 85
PP- 800
SPM- 55



2650
2660
2670
2680
2690
2700



ANG, TR RNDD, MOD CONSL, MOD SRTD, SIL CMT, NO VIS STAIN, NO ODOR, OCC INTRGRNLR POR, OCC STRW FLOR, NO VIS CUT, NO RES RING, SM SH: ORNG, SM RDSH/ORNG, MOD SFT TO MOD FRM, OCC SFT, OCC BRTL, V/FN TO FN TXT, DULL TO ERTHY LSTR, CHNKY, SM BLKY, NON CALC

SS: OFF WHT TO WHT, OCC LT CRM, OCC LT GY, MOD SFT TO MOD FRM, OCC FRI, OCC SFT, V/FN U TO FN L GRN, RNDD TO SUB RNDD, OCC SUB ANG, MOD CONSL, MOD SRTD, SIL CMT, NO VIS STAIN, NO ODOR, OCC INTRGRNLR POR, OCC STRW TO PALE YEL FLOR, NO VIS CUT, NO RES RING, SM: ORNG, SM RDSH/ORNG, OCC LT GY, MOD SFT TO MOD FRM, OCC SFT, OCC FRM, V/FN TO FN TXT, DULL TO ERTHY LSTR, CHNKY, SM BLKY, NON CALC

LS: OFF WHT TO LT GY, OCC LT CRM, MOD SFT TO MOD FRM, OCC SFT, OCC FRM, V/FN TO FN XLN, CHNKY, SM BLKY, CALC CMT, NO VIS STAIN, NO ODOR, TR XLN POR, OCC STRW FLOR, NO VIS RES RING, SM SS: CLR, TR OPQ, TR FRSTD, MOD FRM TO FRM, OCC HRD, V/FN U TO FN L GRN, RNDD TO SUB RNDD, OCC SUB ANG, MOD CONSL, MOD SRTD, SIL CMT, NO VIS STAIN, NO ODOR, OCC XGRNLR POR, OCC STRW FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT TO LT GY, OCC LT CRM, MOD SFT TO MOD FRM, OCC FRM, OCC SFT, V/FN TO FN XLN, CHNKY, SM BLKY, CALC CMT, NO VIS STAIN, NO ODOR, TR XLN POR, OCC STRW TO PALE YEL FLOR NO VIS CUT, NO RES RING, TR SS: OFF WHT TO WHT, OCC OPQ, OCC FRST, MOD FRM TO MOD SFT, OCC FRI, V/FN U TO FN L GRN, RNDD TO SUB RNDD, OCC SUB ANG, MOD CONSL, MOD WELL SRTD, SIL CMT, NO VIS STAIN, NO ODOR, OCC XGRNLR POR, OCC PALE YEL FLOR, NO VIS CUT, NO RES RING

SS: OFF WHT TO WHT, SCAT OPQ TO TRNSL, OCC CLR, MOD FRM TO FRM, OCC HRD, OCC FRI, V/FN U TO FN L GRN, RNDD TO SUB RNDD, OCC SUB ANG, MOD CONSL, MOD WELL SRTD, SIL CMT, NO VIS STAIN, NO ODOR, OCC XGRNLR POR, OCC STRW TO YEL FLOR, NO VIS CUT, NO RES RING, TR LS: OFF WHT TO WHT, OCC LT GY, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, CHNKY, SM BLKY, CALC CMT, NO VIS STAIN, NO ODOR, SM XLN POR, OCC STRW TO PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT, LT CRM, OCC LT TN, MOD SFT TO MOD FRM, OCC SFT, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, OCC DOLC CMT, NO VIS STAIN, NO ODOR, SM XLN POR, OCC STRW FLOR, NO VIS CUT, NO RES RING, TR SS: OFF WHT TO WHT, OCC LT GY, MOD SFT TO MOD FRM, OCC FRM, TR FRI, V/FN U TO FN L GRN, SUB ANG TO SUB RNDD, OCC RNDD, MOD CONSL, MOD WELL SRTD, SIL CMT, NO VIS STAIN, NO ODOR, SM XGRNLR POR, OCC STRW FLOR, NO VIS CUT, NO

KD

FG 9 UNITS

-20
KD

Cato Exploration :: Cramer Trust #1

180

FG 10 UNITS

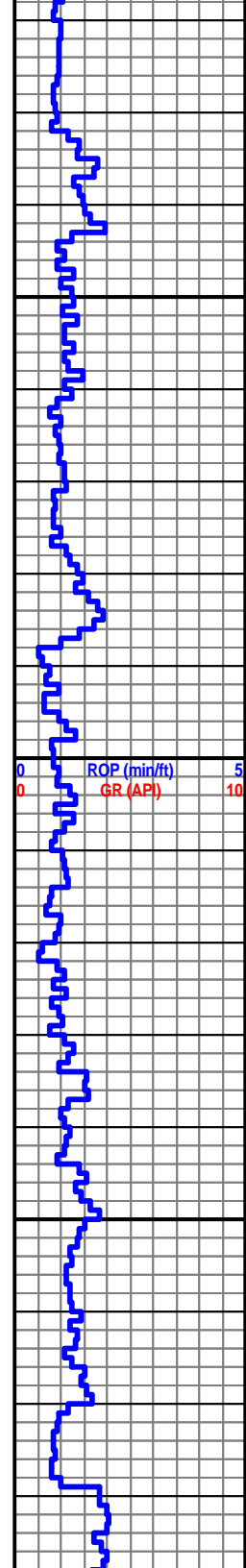
KD

KD

CG 12 UNITS

KD

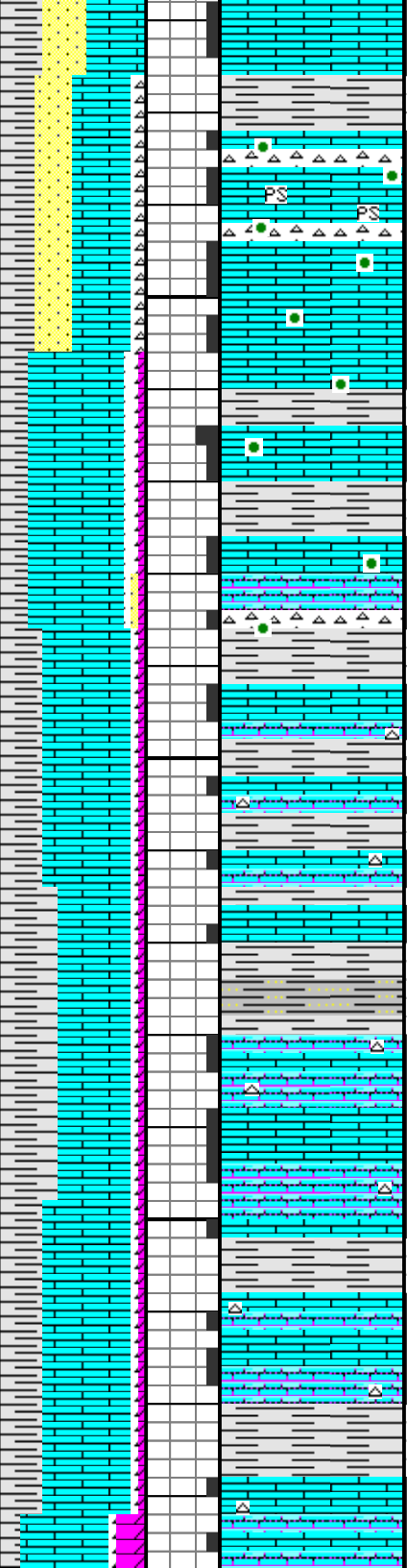
WOB- 30K
RPM- 70
PP- 800
SPM- 55



2750

2800

2850



RES RING

CHASE @ 2732' MD

(71')



LS: OFF WHT TO WHT, SM LT CRM, TR LT GY, MOD SFT TO MOD FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, CALC CMT, OCC OFF WHT HRD ANG CHRT, OCC QRTZ INC, NO VIS STAIN, NO ODOR, SCAT XLN POR, OCC VUG POR, TR YEL TO PALE YEL FLOR, NO VIS CUT, NO RES RING, SCAT SS: OFF WHT TO WHT, OCC LT GY, MOD SFT TO MOD FRM, OCC FRI, V/FN U TO FN L GRN, SUB ANG TO SUB RNDD, OCC RNDD, MOD CONSL, MOD WELL SRTD, SIL CMT, NO VIS STAIN, NO ODOR, OCC XGRNLR POR, TR YEL TO PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT, SM LT CRM, SCAT LT GY, MOD SFT TO MOD FRM, OCC SFT, V/FN TO FN XLN, TR MIC XLN, CHNKY, SM BLKY, CALC CMT, OCC DOLC CMT, OCC QRTZ INC, OCC WHT HRD CRYPTO XLN ANG CHRT, NO VIS STAIN, NO ODOR, SM XLN POR, OCC VUG POR, OCC STRW TO YEL FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT TO LT GY, TR LT CRM, OCC LT TN, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, TR MIC XLN, CHNKY, SM BLKY, CALC CMT, OCC DOLC CMT, OCC WHT HRD ANG CRYPTO XLN CHRT, NO VIS STAIN, NO ODOR, SM XLN POR, OCC VUG POR, OCC STRW FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT TO LT GY, TR LT CRM, OCC GY, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, TR MIC XLN, CHNKY, SM BLKY, CALC CMT, OCC DOLC CMT, OCC WHT HRD ANG MIC XLN CHRT, NO VIS STAIN, NO ODOR, SM XLN POR, OCC STRW FLOR, NO VIS CUT, NO RES RING

LS: LT GY, SM OFF WHT, SCAT LT TN, SCAT LT CRM, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, CHNKY, SM BLKY, CALC CMT, OCC DOLC CMT, OCC WHT HRD MIC XLN ANG CHRT, NO VIS STAIN, NO ODOR, SM XLN POR, TR STRW TO YEL FLOR, NO VIS CUT, NO RES RING

KD
KD
KD
-20
KD
KD
KD

CG 12 UNITS

FG 11 UNITS

Cato Exploration :: Cramer Trust #1

180

FG 9 UNITS

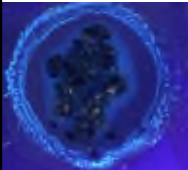
FG 16 UNITS

FG 9 UNITS

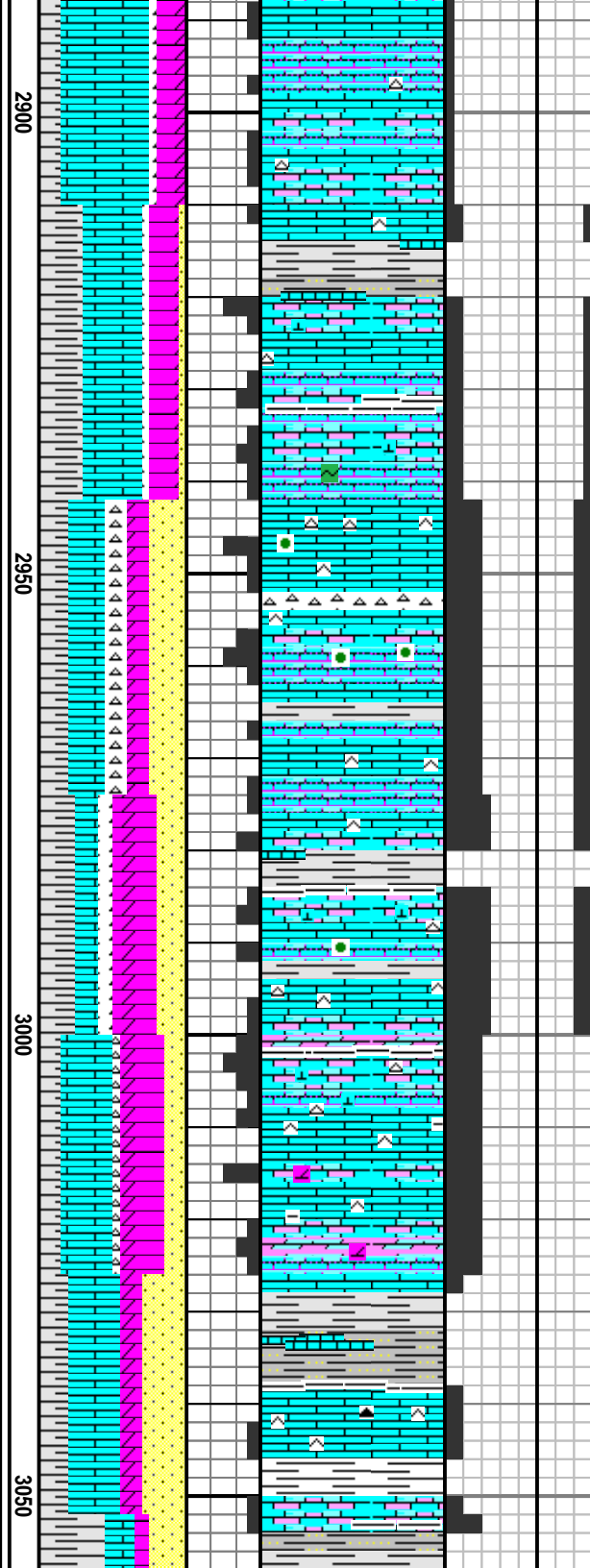
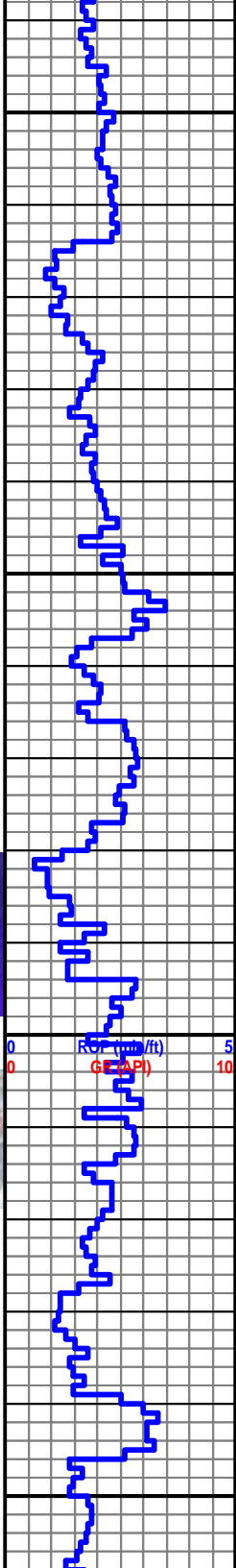
07/12/2014

WOB-30/32K
RPM-90
PP-800
SPM-60

JET PIT



WORK ON MUD PUMP



LS: LT TN, SM LT GY, SCAT OFF WHT, SCAT LT CRM, MOD SFT TO MOD FRM, TR FRM, V/FN TO FN XLN, CHNKY, SM BLKY, TR DOLC CMT, OCC CLR TO FRSTD HRD MIC XLN ANG CHRT, NO VIS STAIN, NO ODOR, TR XLN POR, OCC STRW FLOR, NO VIS CUT, NO RES RING

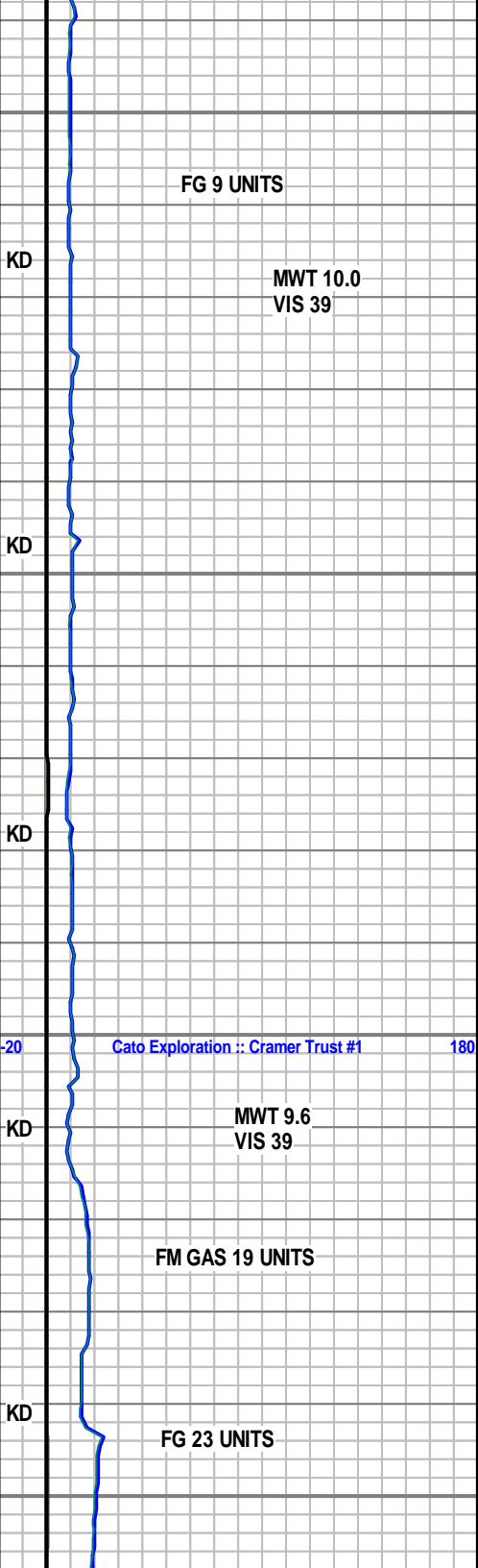
LS: CRM TO SCAT DK CRM, SCAT OFF WHT, TR GYSH, TR BLK STRI, OCC GRNSH, OCC TRNSP, MOD FRM, SCAT BRTL, FN TO V/FN XLN, SCAT PACKST/GRNST, CHNKY, SM PLTY, SCAT ARG, SM DOLC CMT, SM SIL, OCC CALCITE FL, TR DRSY EUHED/ SCALA QRTZ, TR WHT TO OFF WHT SHRP ANG CHAL CHRT, OCC GLAUC, TR ASPHLTC STRKS, NO ODOR, TR XLN POR, SCAT TO TR VUG W/TR PP POR, SM LAM SH: GY TO TR DK GY, OCC GRNSH GY, FN TXT, SM SLTY, DULL LSTR, NON CALC, SCAT TO SM DULL DK YEL TO AMBER FLOR, SLO WK MLKY PALE YEL CUT, MOD FR BRI PAL

LS: LT CRM TO CRM, TR DK CRM, SCAT OFF WHT, TR LT TAN, OCC LT GYSH, MOD FRM, OCC BRTL, TR CRMBLY, FN XLN, SM V/FN XLN, MSTLY PACKST W/TR GRNST, CHNKY, SCAT PLTY TO BLKY, SM INTRBD DOLO, INCRSE ARG, SCAT DOLC CMT, SM SIL, SCAT EUHED DRSY CALCITE, TR DOLO FL, OCC OPQ TO WHT CHAL CHRT, NO VIS STAIN, NO ODOR, SCAT TO SM XLN POR, SCAT VUG POR, TR FRAC POR, SCAT DK YEL FLOR, NO VIS CUT

COUNCIL GROVE @ 3039'

+++++
(-236')

LS: OFF WHT TO LT CRM, SCAT CRM, TR WHT, MOD FRM TO TR FRM, V/FN XLN, TR MICRO XLN, SM PACKST, BLKY TO SM CHNKY, OCC SPLTRY, SM SIL, TR INTRBD DOLO, OCC BRN/WHT MOTT ANG CHAL CHRT TR CAL CITE FL NO VIS STAIN

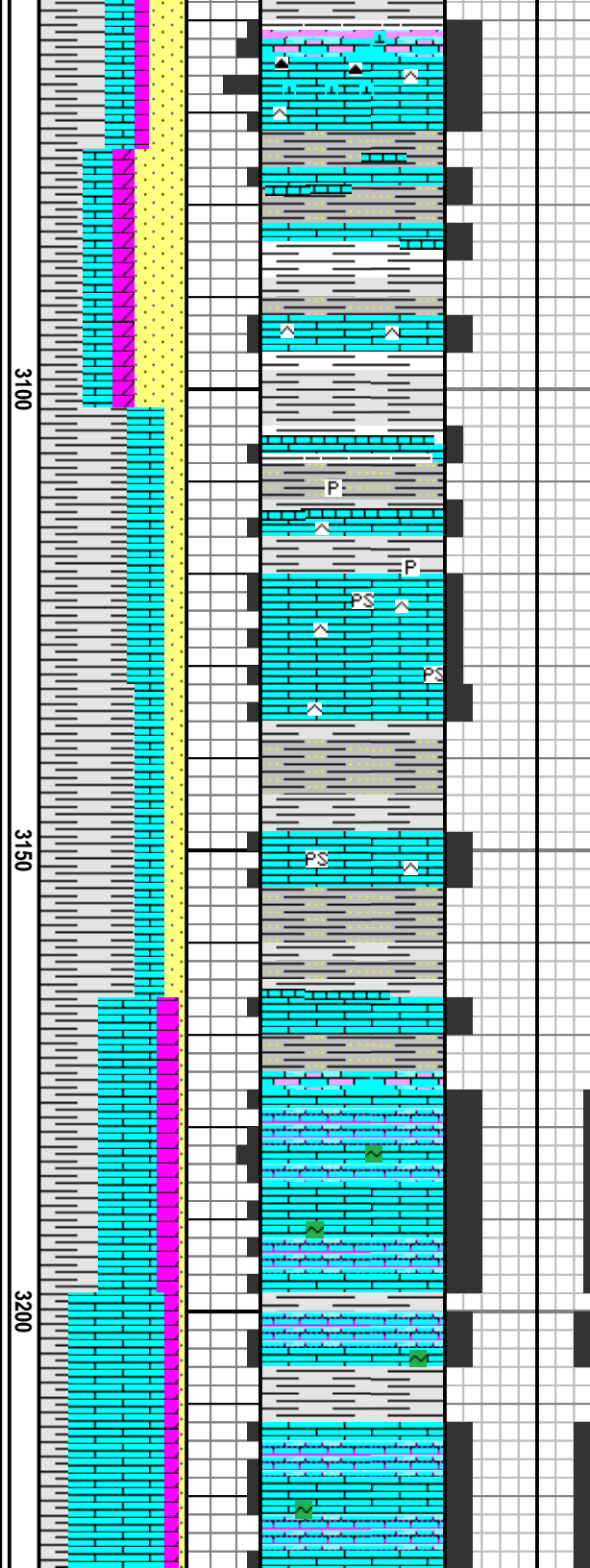
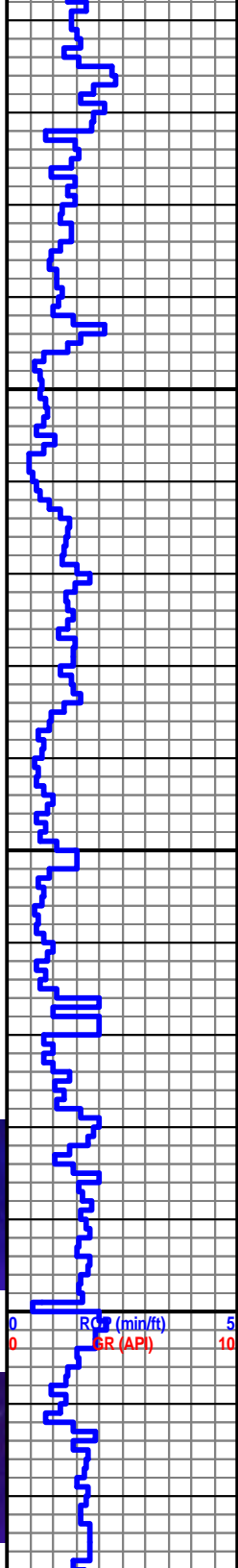


WORK ON MUD PUMP

MSTLY WHT TO OFF WHT LS

WOB-32/35K
RPM-65/70
PP-850
SPM-48

NO HOLE FOUND



NO ODOR, TR FRAC POR, TR PP POR, SM LAM SH: GY TO LT GY, SM BRN TO RDSH/BRN, TR ORNG, SM MOD SFT, FN TO SLTY TXT, ERTHY LSTR, CHNKY, TR PLTY, NON CALC, TR MICRO MICA, SCAT V/DULL YEL TO OCC DK YEL FLOR, NO VIS CUT

+++++

TOH FOR HOLE IN DRILL PIPE :: PULLED 6 STANDS AND L/D SINGLE :: @ 3089'

LS: OFF WHT TO LT CRM, OCC WHT, MOD FRM TO FRM, V/FN TO FN XLN, OCC MIC XLN, SM PACKSTN, BLKY, SM CHNKY, TR SIL CMT, NO VIS STAIN, NO ODOR, OCC HL FRAC POR, OCC XLN POR, TR STRW TO YEL FLOR, NO VIS CUT, NO RES RING, SM SH: GY TO LT GY, SCAT BRN TO RED/BRN, TR ORNG, MOD SFT TO SFT, OCC MOD FRM, FN TXT, SCAT SLTY IP, ERTHY LSTR, CHNKY, SCAT PLTY, NON CALC, OCC PYR INC

LS: LT CRM TO OFF WHT, OCC LT GY, OCC LT TN, MOD FRM TO FRM, OCC HRD, OCC MOD SFT, V/FN XLN, SCAT MIC XLN, SM PACKSTN, BLKY, SCAT CHNKY, TR SIL CMT, NO VIS STAIN, NO ODOR, TR XLN POR, TR STRW TO PALE YEL FLOR, OCC YEL FLOR, NO VIS CUT, NO RES RING, SM SH: ORNG, SM RDSH/ORNG, SCAT BRN/RED, OCC LT BRN, OCC LT GY, MOD SFT TO SFT, OCC MOD FRM, V/FN TO FN TXT, OCC SLTY IP, DULL TO ERTHY LSTR, NON CALC

TOH FOR HOLE IN DRILL PIPE:: @3166'

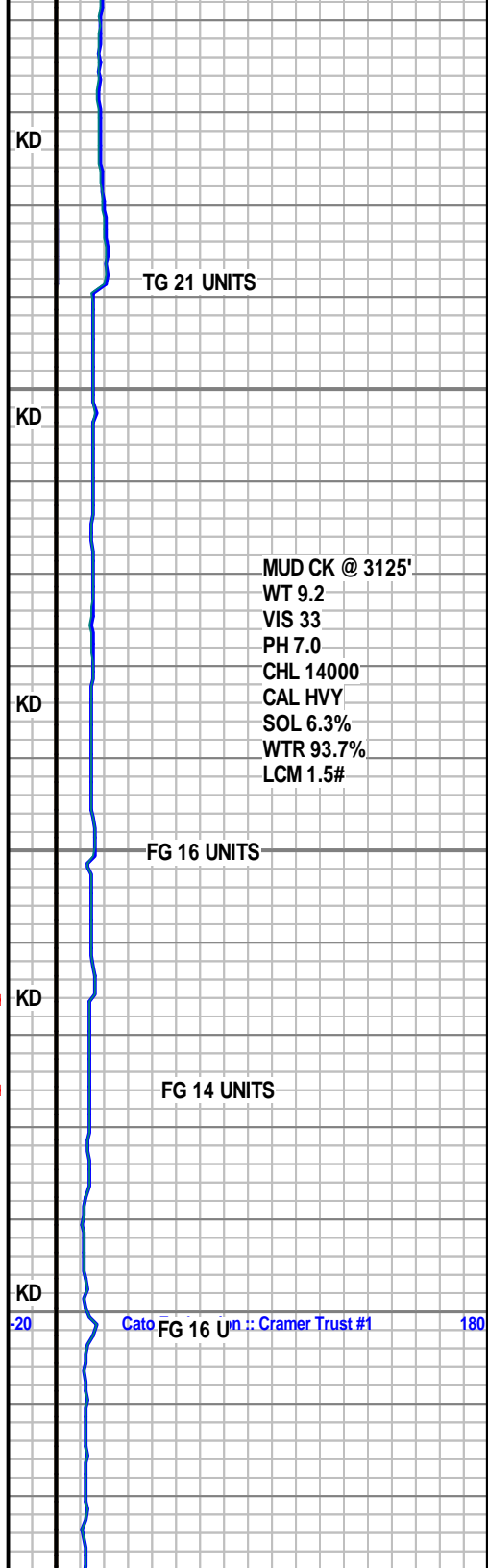
+++++

ADMIRE @ 3165' MD (-362')

+++++

LS: OFF WHT, OCC WHT, OCC LT CRM, MOD SFT TO SFT, OCC MOD FRM, V/FN TO FN XLN, SCAT MIC XLN, OCC PACKSTN, BLKY, SM CHNKY, TR DOLC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, SM XLN POR, SCAT DULL YEL TO YEL FLOR, V/SLO YEL STRMING CUT, FR LRG SPTTY PALE YEL RES RING

LS: OFF WHT TO LT CRM, OCC LT TN, MOD SFT TO MOD FRM, OCC SFT, V/FN TO MIC XLN, TR FN XLN, CHNKY, SM BLKY, OCC DOLC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, SM XLN POR, OCC HL FRAC POR, TR PALE YEL TO YEL FLOR, IMMD PALE YEL STRMING CUT, FR LRG SPTTY PALE YEL RES RING



TG 21 UNITS

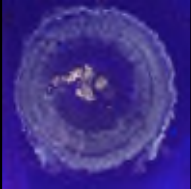
FG 16 UNITS

FG 14 UNITS

MUD CK @ 3125'

WT 9.2
VIS 33
PH 7.0
CHL 14000
CAL HVY
SOL 6.3%
WTR 93.7%
LCM 1.5#

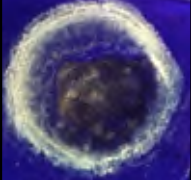
Cato FG 16 Un :: Cramer Trust #1 180



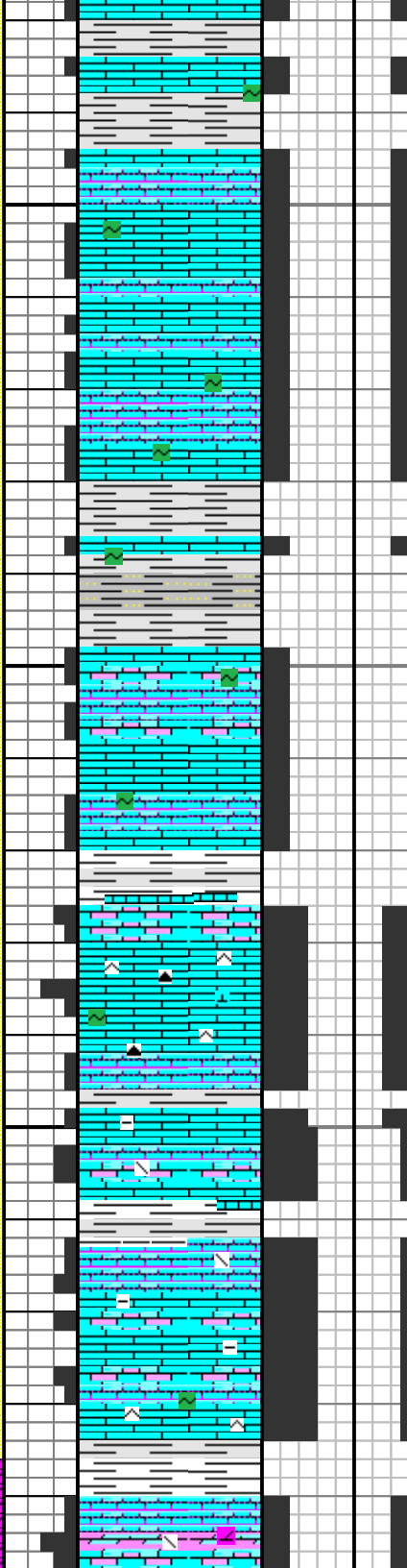
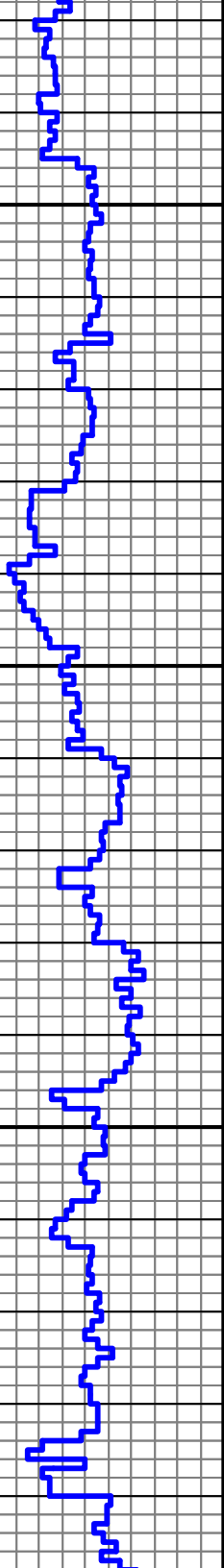
WOB- 32/34K
RPM- 75/80
PP- 850
SPM- 58



07/13/2014



WOB-32K
RPM-80/90
PP-800
SPM-58



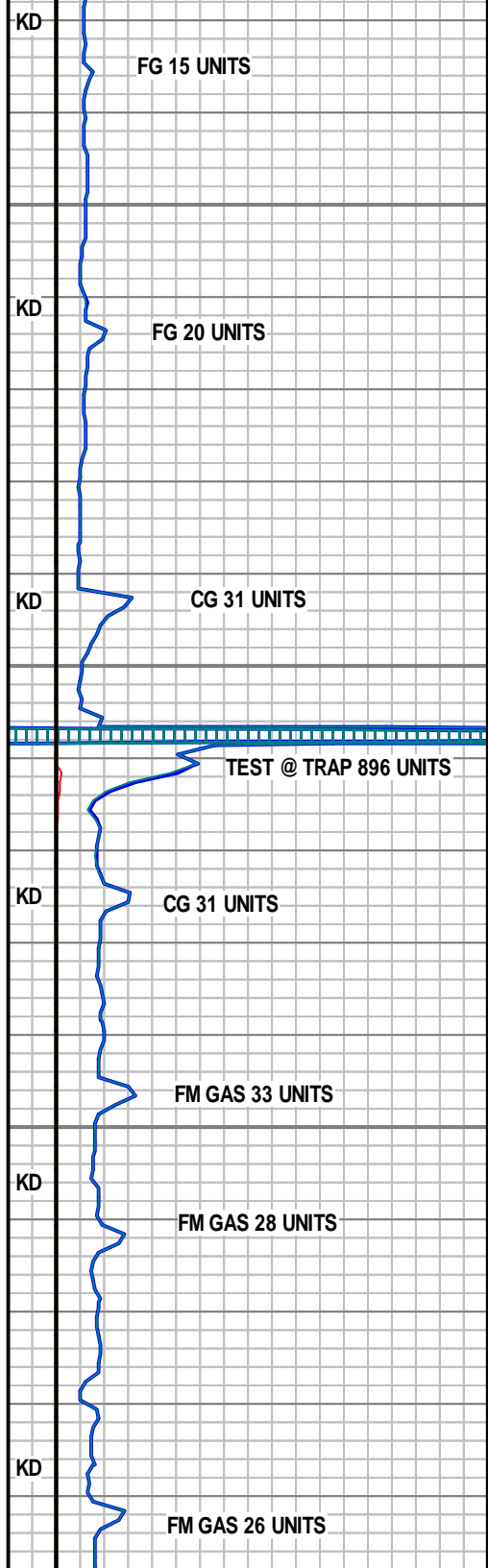
LS: OFF WHT TO WHT, TR LT CRM, MOD SFT TO SFT, OCC MOD FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, OCC DOLC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, TR XLN POR, TR PALE YEL TO STRW FLOR, IMMD PALE YEL STRMING CUT, TR LRG WK SPTTY PALE YEL RES RING

LS: OFF WHT TO WHT, TR LT CRM, OCC LT TN, MOD SFT TO MOD FRM, OCC SFT, OCC FRM, V/FN TO MIC XLN, SCAT FN XLN, CHNKY, SM BLKY, TR DOLC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, TR XLN POR, TR STRW FLOR, SLO PALE YEL TO YEL STRMING CUT, V/THN FNT PALE YEL RES RING

LS: LT CRM, SM OFF WHT, TR LT TN, MOD SFT TO MOD FRM, OCC FRM, OCC SFT, V/FN TO FN XLN, TR MIC XLN, CHNKY, SCAT BLKY, TR DOLC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, SM XLN POR, TR PALE YEL FLOR, NO VIS CUT, NO RES RING

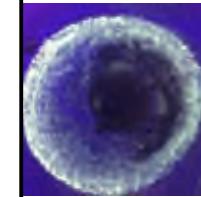
LS: OFF WHT, SM V/LT CRM, SCAT DK TAN TO BRN, SCAT GY, TR GYSH/BRN, MSTLY MOD FRM, SM BRTL, V/FN TO TR FN XLN, OCC PACKST, PLTY, SCAT BLKY, TR CHNKY, SCAT DOLO CMT, SCAT ARG, TR SIL, OCC DK ANG CHAL CHRT, OCC GLAUC, OCC CALCITE FL, TR DK GY TO BLK SPOT STAIN, NO ODOR, SCAT FRAC POR, TR P TO VUG POR, SCAT YEL W/ TR DULL YEL FLOR, V/FAINT IMMD MLKY YEL CUT, GD TO V/GD MLKY BRI STRW CUT W/10% HCL, GD THCK YEL RES RING

LS: BECMNG OFF WHT, TR WHT, DECRSE LT CRM, OCC LT TAN, SCAT GYSH W/TR BLK STRI/STRKS, MOD FRM, TR BRTL, V/FN TO TR FN XLN, CHNKY TO PLTY, SM DOLC CMT, DECRSNG ARG, TR LAM DOLO, SCAT INTRBD DOLO, OCC V/FN DOLO EUHED, OCC CHNKY CALCITE FL,

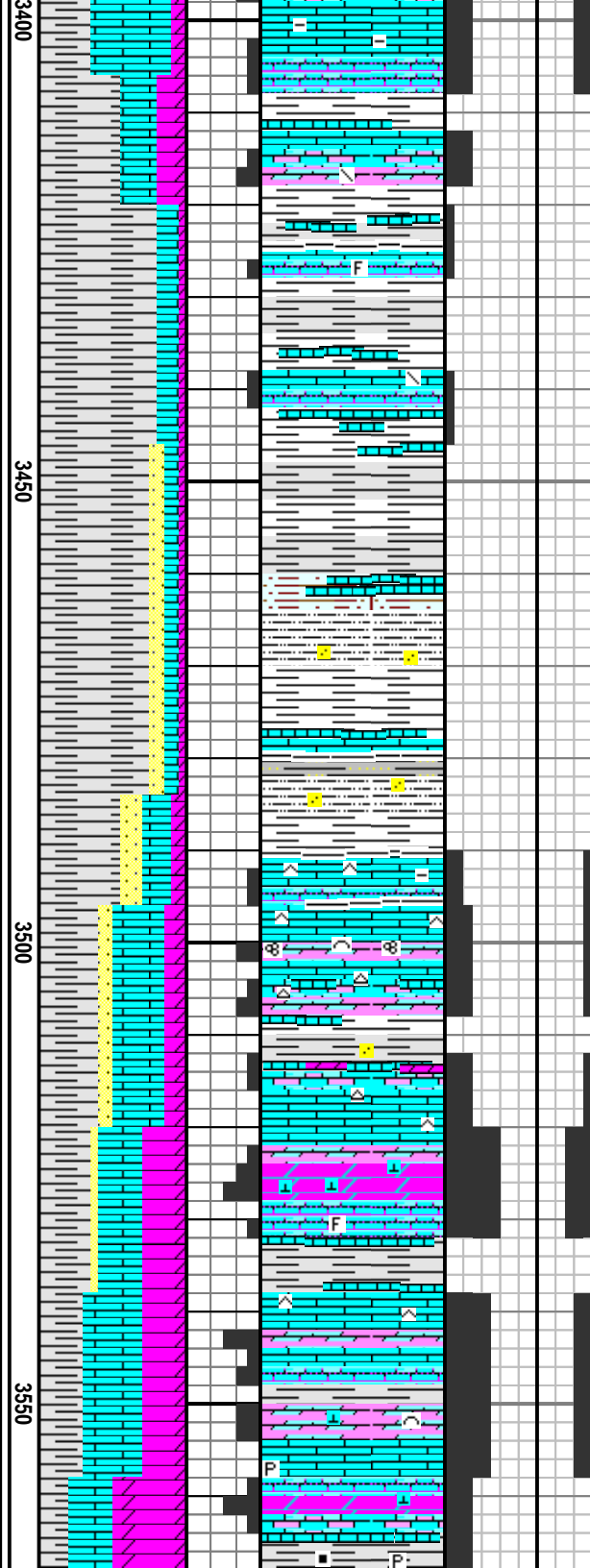
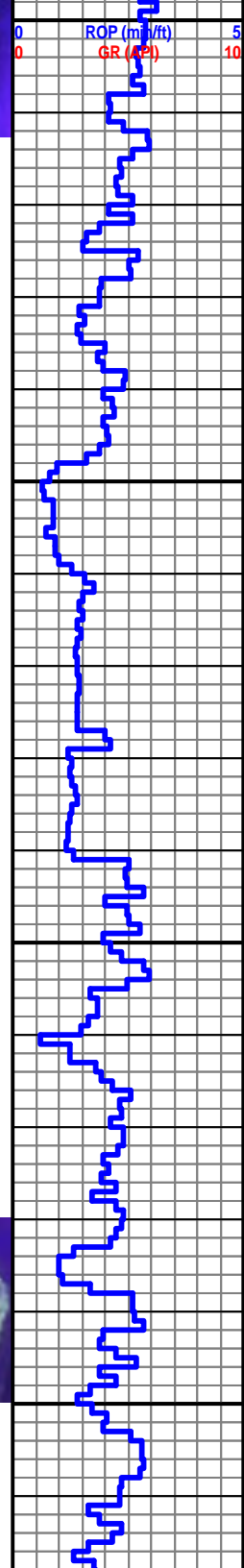




WOB-35K
RPM-70
PP-900
SPM-60



INCRSE DOLO



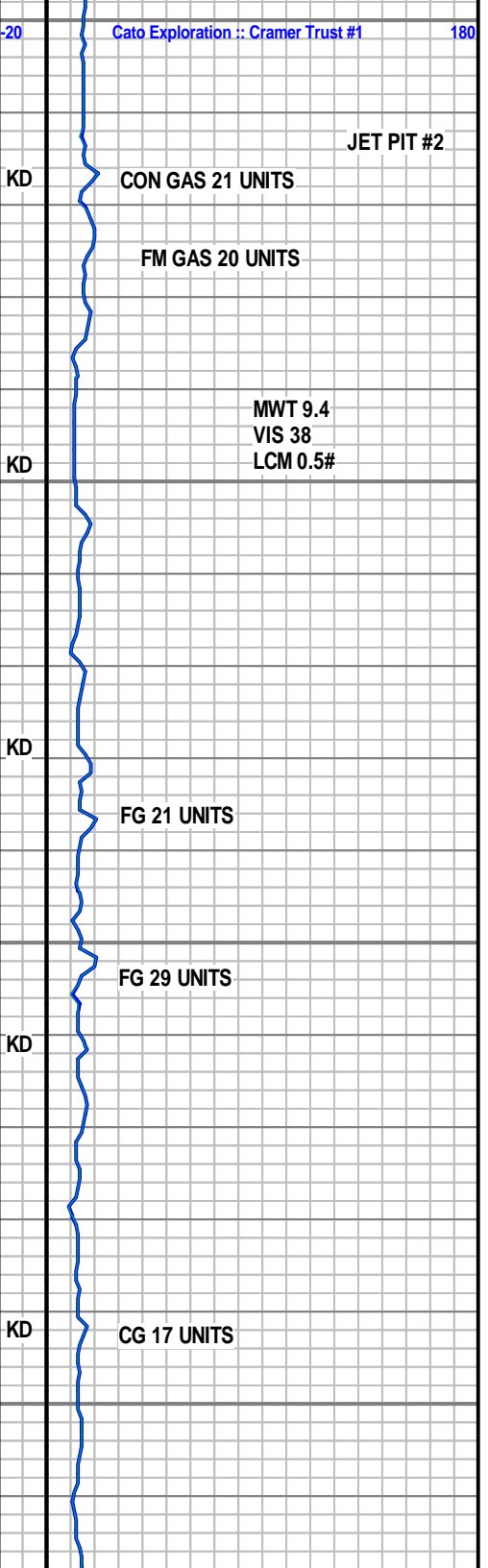
OCC GLAUC, OCC FOSS, INCRSE DK GY TO BLK SPOT STAIN W/OCC ASPHLT ALONG VUG/FRAC, TR FRAC POR, SCAT FN VUG TO PP POR, OCC XLN POR, SCAT DULL YEL FLOR, WK TO V/WK MLKY PALE YEL CUT, WK SPTTY PALE YEL RES RING

SH: ORNG TO TR DK ORNG, SM LT ORNG, TR RDSH/ORNG, OCC GRNSH, OCC GY, MSTLY MOD SFT, TR MOD FRM, TR BRTL, V/FN TXT, DULL LSTR, BLKY TO CHNKY, NON CALC, OCC SLI SLTY IP, TR INTRBD LS: WHT TO OFF WHT, TR GYSH MOTT, OCC BLK STRKS, MOD FRM, V/FN XLN, OCC FN XLN, OCC SLI SUC TXT, PLTY, SM CHNKY, SCAT DOLC CMT, SM INTRBD DOLO, TR ASPHLTC STAIN, NO ODOR, TR XLN POR, OCC DULL YEL TO DK YEL FLOR, NO VIS CUT

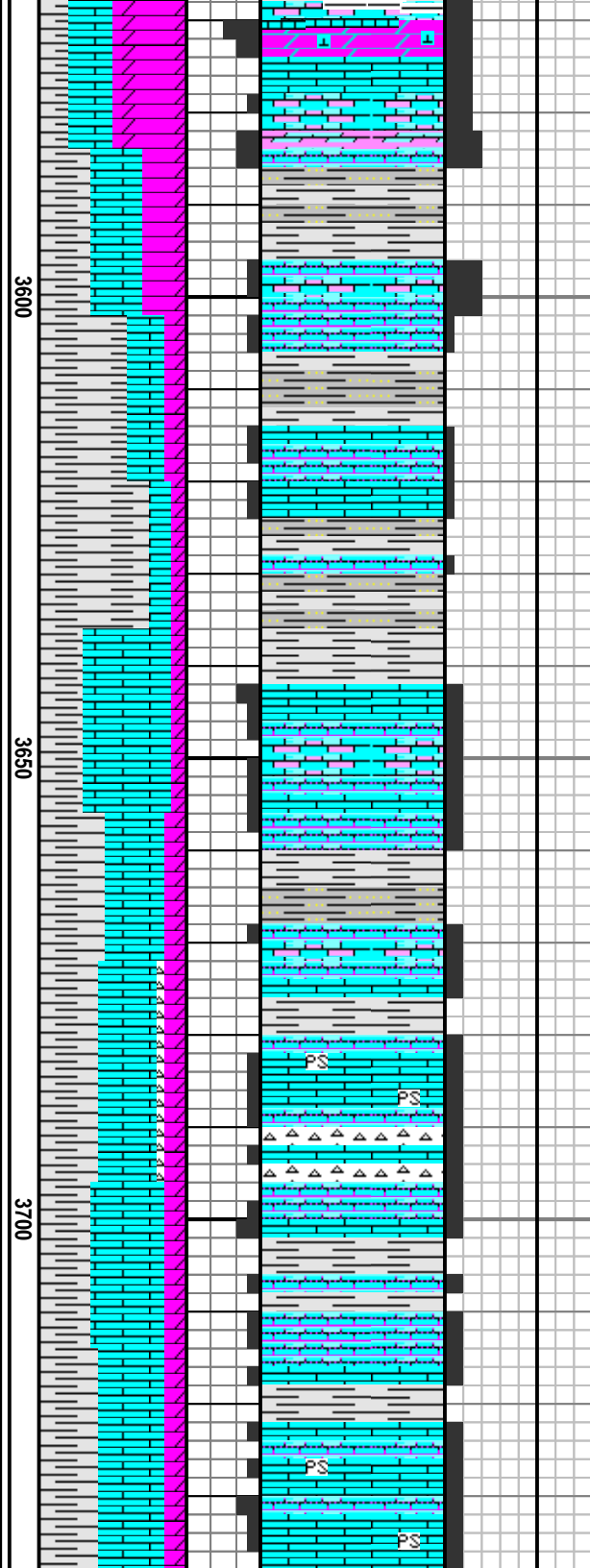
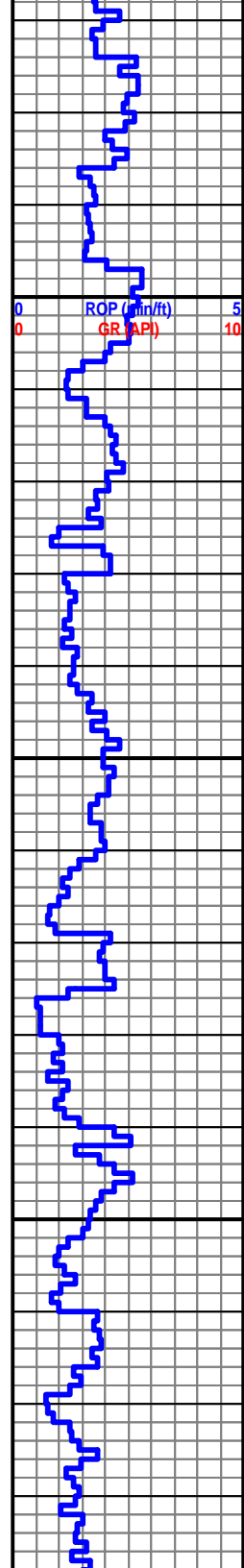
WABUNSEE @ 3491'
(-688')

LS: CRM TO SM OFF WHT, SCAT TAN TO LT BRN, TR GYSH TO GYSH/BRN, FRM TO SM MOD FRM, SM BRTL, V/FN TO MICRO XLN, PLTY, BLKY, TR CHNKY, SCAT ARG, TR DOLC CMT, SM SIL, TR DRYSY CALCITE, OCC BLU/GY CHRT NOD, OCC BIOCLST W/FRI CALCITE MTX W// FUS, OCC DK SPOT STAIN, NO ODOR, TR XLN POR, SCAT FN TO HAIRLINE FRAC, TR VUG POR, SM LAM SH: ORNG TO RDSH/ORNG, SM GY TO DK GY, MOD FRM, V/FN TXT, OCC SLTY IP, SCAT TO SM YEL TO PALE YEL FLOR, TR SLO FR MLKY PALE YEL CUT W/10% HCL, SPTTY PALE YEL RES RING

LS: CRM TO LT CRM, DECRSE WHT TO OFF WHT, TR TAN MOTT, OCC GYSH STRKS/MOTT, MOD FRM, V/FN TO TR FN XLN, TR V/FN SUC TXT, PLTY, SCAT CHNKY, SCAT DOLO CMT, OCC ARG, SCAT LAM DOLO, TR INTRBD DOLO, OCC CHNKY CALCITE FL, OCC MIN PYR INC., OCC BIOCLST W/FN XLN DOLO MTX, TR BRN SPOT STAIN, NO ODOR, SCAT XLN POR, TR TO SCAT VUG POR, TR LAM SH: GY TO DK GY, OCC LT GY, OCC



WOB- 35K
RPM- 80
PP- 900
SPM- 60



ORNG, V/FN TO TR SLTY TXT, OCC PYRC, TR YEL TO SCAT V/DULL YEL FLOR, WK PALE YEL MLKY CUT W/10% HCL, TR FR SPTY YEL RES RING

TOPEKA @ 3596'
(-793')

+++++

SH: ORNG, SM RD/ORNG, OCC BRN/RD, OCC LT BRN, OCC LT GY, MOD SFT TO SFT, OCC MOD FRM, V/FN TO FN TXT, OCC SLTY IP, DULL TO ERHTY LSTR, CHNKY, SM PLTY, OCC BLKY, NON CALC, TR LS: LT CRM, OCC OFF WHT, OCC LT TN, SFT TO MOD SFT, TR MOD FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, TR DOLC CMT, OCC BRN SPOT STAIN, NO ODOR, SM XLN POR, OCC VUG POR, OCC PALE YEL FLOR, NO VIS CUT, NO VIS RES RING

SH: ORNG, SM RD/ORNG, SCAT RD/BRN, OCC LT GY, OCC GY, MOD SFT TO SFT, OCC MOD FRM, V/FN TO FN TXT, OCC SLTY IP, DULL TO ERHTY LSTR, CHNKY, SCAT PLTY, OCC BLKY, NON CALC

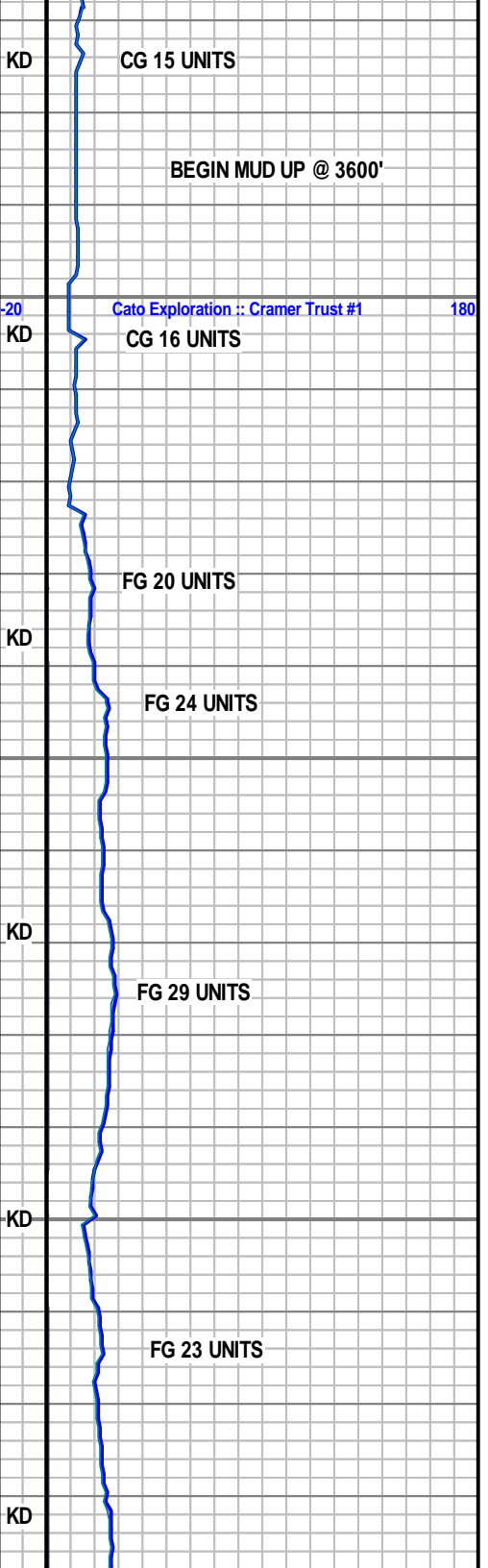
LS: OFF WHT, SCAT LT CRM, OCC LT TN, OCC LT GY, MOD SFT TO MOD FRM, OCC SFT, OCC FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, SCAT PLTY, TR DOLC CMT, NO VIS STAIN, NO ODOR, TR PALE YEL TO STRW FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT, TR LT CRM, OCC LT TN, OCC LT GY, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, SCAT PLTY, TR DOLC CMT, NO VIS STAIN, NO ODOR, SCAT XLN POR, TR PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: OFF WHT, SM LT CRM, SCAT LT TN, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, TR DOLC CMT, SCAT PCKSTN, OCC LT GRY V/HRD ANG CHRT, OCC BRN SPOT STAIN, NO ODOR, SM XLN POR, OCC VUG POR, TR STRW FLOR, NO VIS CUT, NO RES RING

LS: LT CRM, SCAT OFF WHT, SCAT LT TN, OCC LT BRN, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, TR DOLC CMT, OCC PCKSTN, NO VIS STAIN, NO ODOR, SM XLN POR, TR STRW TO YEL FLOR, NO VIS CUT, NO RES RING

LS: LT CRM, SM LT TN, SCAT OFF WHT, MOD SFT TO MOD FRM, OCC FRM, V/FN TO FN XLN, OCC MIC XLN, CHNKY, SM BLKY, OCC DOLC CMT, OCC PCKSTN, NO VIS STAIN, NO ODOR, TR XLN POR, TR STRW TO YEL FLOR, NO VIS CUT, NO RES RING

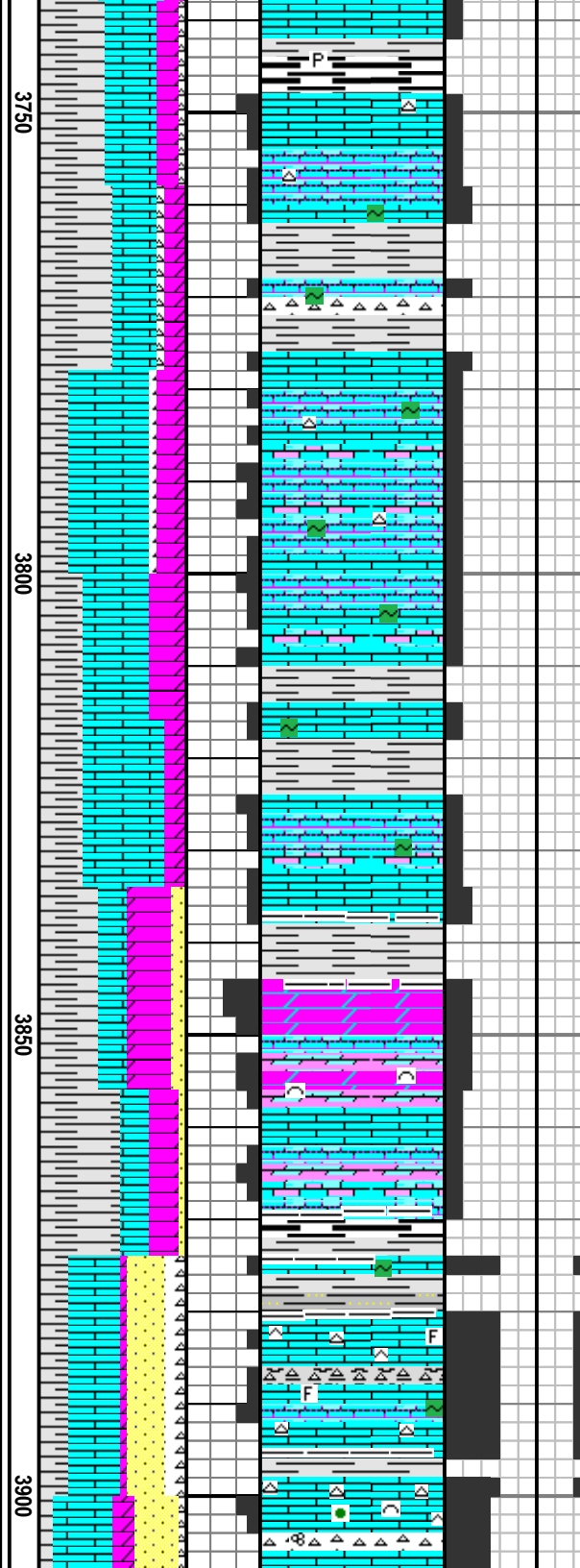
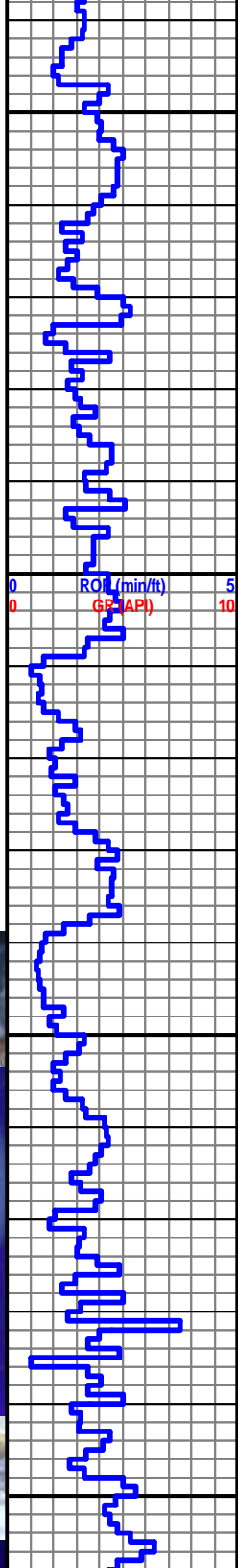


WOB- 22K
RPM- 80
PP- 900
SPM- 60

DEV. SURVEY @
3978'
DEV. 1.0*



07/14/2014



LS: LT CRM, SM LT GRY SCAT OFF WHT, MOD SFT TO SFT, SM MOD FRM, V/FN TO FN XLN, TR MIC XLN, CHNKY, SM BLKY, DOLC CMT, OCC PCKSTN, OCC PYR INC, OCC CLR TO FRSTD HRD ANG CHRT, OCC BRN SPOT STAIN, NO ODOR, SM XLN POR, OCC VUG POR, OCC STRW FLOR, NO VIS CUT, NO RES RING

LS: LT CRM, SM LT TN, SCAT OFF WHT, MOD SFT TO SFT, OCC MOD FRM, V/FN TO FN XLN, TR MIC XLN, CHNKY, SM BLKY, SCAT PLTY, TR DOLC CMT, OCC GLAUC, OCC CLR TO OPQ HRD ANG CHRT, OCC BRN SPOT STAIN, NO ODOR, SM XLN POR, OCC FRAC POR, OCC VUG POR, SCAT PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: LT TN, SM LT CRM, TR OFF WHT, MOD SFT TO MOD FRM, OCC SFT, V/FN TO FN XLN, TR MIC XLN, CHNKY, SCAT BLKY, OCC PLTY, TR DOLC CMT, OCC GLAUC, OCC CLR TO FRSTD HRD ANG CHRT, OCC BRN SPOT STAIN, NO ODOR, SM XLN POR, OCC FRAC POR, TR PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: LT CRM, SCAT LT TN, OCC OFF WHT, MOD FRM TO FRM, TR MOD SFT, V/FN TO MIC XLN, OCC FN XLN, CHNKY, SCAT BLKY, OCC PLTY, SCAT DOLC CMT, OCC GLAUC, NO VIS STAIN, NO ODOR, SM XLN POR, OCC HL FRAC POR, TR PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: LT TN, SM LT CRM, OCC OFF WHT, MOD FRM TO FRM, TR MOD SFT, V/FN TO MIC XLN, TR FN XLN, CHNKY, SCAT BLKY, OCC PLTY, TR DOLC CMT, OCC GLAUC, OCC BLK SPOT STAIN, NO ODOR, SM XLN POR, OCC HL FRAC POR, TR PALE YEL FLOR, NO VIS CUT, NO RES RING

LS: GYSH TO GYSH/BRN, WHT TO OFF WHT MOTT, SM BRN, MOD FRM, SM CRMBLY, FN XLN, CHNKY, MSTLY BIOCLST W/DOLO MTX, NO VIS STAIN, NO ODOR, SM XLN POR, TR DULL YEL FLOR, NO VIS CUT

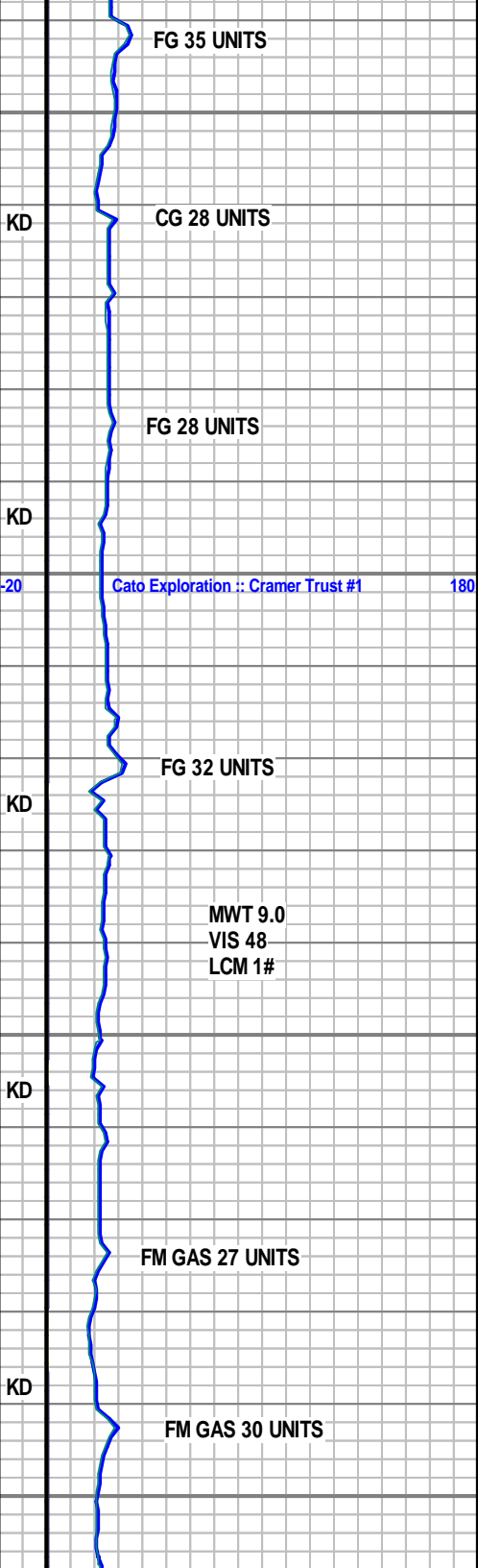
HEEBNER @ 3869'
(-1066')

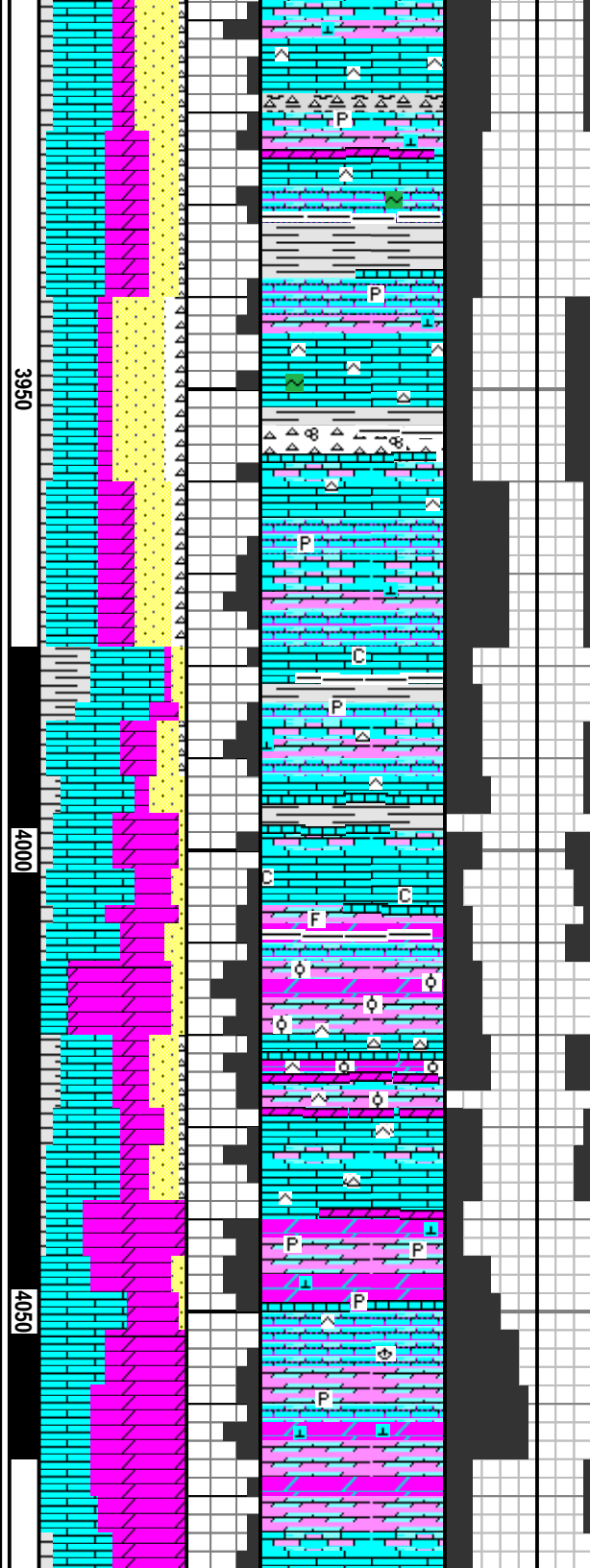
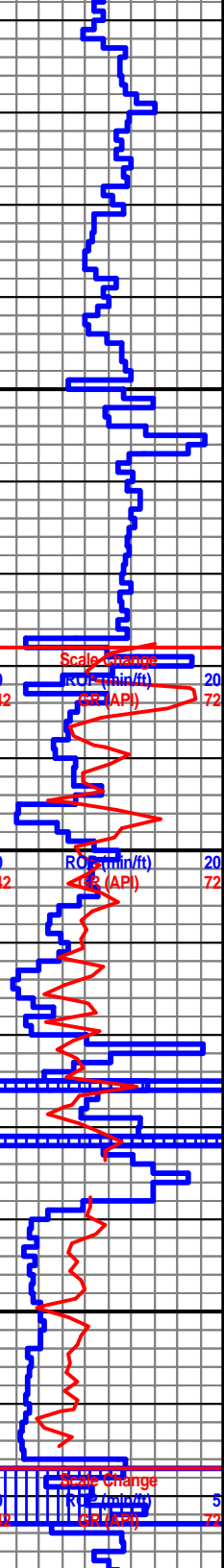
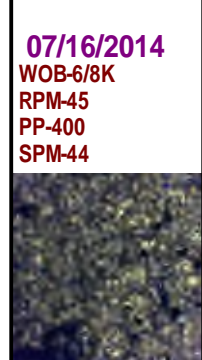
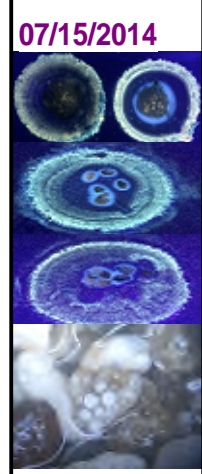
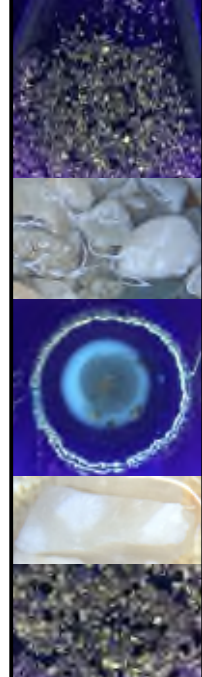
TORONTO @ 3881'
(-1078')

LS: CRM, SM LT TAN, OCC DK TAN, WHT MOTT, OCC OFF WHT, FRM, BRTL, MICRO TO TR V/FN XLN, BLKY, TR CHNKY, SCAT CHLKY, OCC DOLC CMT, TR ARG, TR QRTZ OVRGRWTH, OCC SPIC CHRT, TR WHT ANG CHAL CHRT, OCC GLAUC, SCAT FOSUS, OCC BRN SPOT STIAN, NO ODOR, SCAT HAIRLINE FRAC, TR MOLDIC POR, SM YEL W/OCC DULL YEL FLOR, WK STRMNG STRW CUT, SPTY YEL RES IRNG

LANSING @ 3898'
(-1095')

LS: CRM TO LT CRM, SCAT V/LT CRM, OCC WHT, TR TO OCC





LT TAN, TR WHT MOTT, OCC BUFF MOTT, MOD FRM, TR HRD, BRTL, MSTLY MICRO XLN, TR V/FN XLN, BLKY, OCC PLTY, OCC CHNKY, SM SIL, TR ARG/CHLKY, INCRSING DOLO CMT, SCAT TO DECRSING SHRPPANG WHT TO OPQ CHAL CHRT W/TR RADIOLARIAN, OCC SPIC, TR CALCIT FL, TR QRTZ OVRGWTH, OCC GLAUC, OCC MIN PYR INC., TR BIOCLST W/OCC BRN STAIN, NO ODOR, SCAT FN FRAC POR W/HAIRLINE, TR PP POR, TR MOLDIC POR, SM YEL TO DULL YEL FLOR, V/WK SLO MLKY STRW CUT, V/FAINT YEL RE

LS: LT CRM, SCAT CRM, TR OFF WHT TO WHT, SCAT TAN TO BRN MOTT, FRM TO TR HRD, BRTL, MICRO TO INCRSE V/FN XLN, MSTLY BLKY, TR CHNKY, OCC CHLKY, SCAT DOLC CMT, SM SIL, TR LT TAN TO WHT SHRPPANG CHRT W/TR RADIOLARIAN, TR MIN PYR INC., OCC DRSY LRG EUHED CALCITE, OCC GLAUC, OCC FOSS FRAGS, DK BRN STAIN ALONG FRAC, TR PP POR, TR XLN POR, SM FRAC POR W/SCAT HAIRLINE, OCC LAM GY TO DK GY V/FN TXT FRM PLTY SH, TR TO INCRSING TO SM YEL FLOR W/TR DULL YEL, WK TO TR FR MLKY PALE YEL CUT W/10% HCL, WK SPTTY

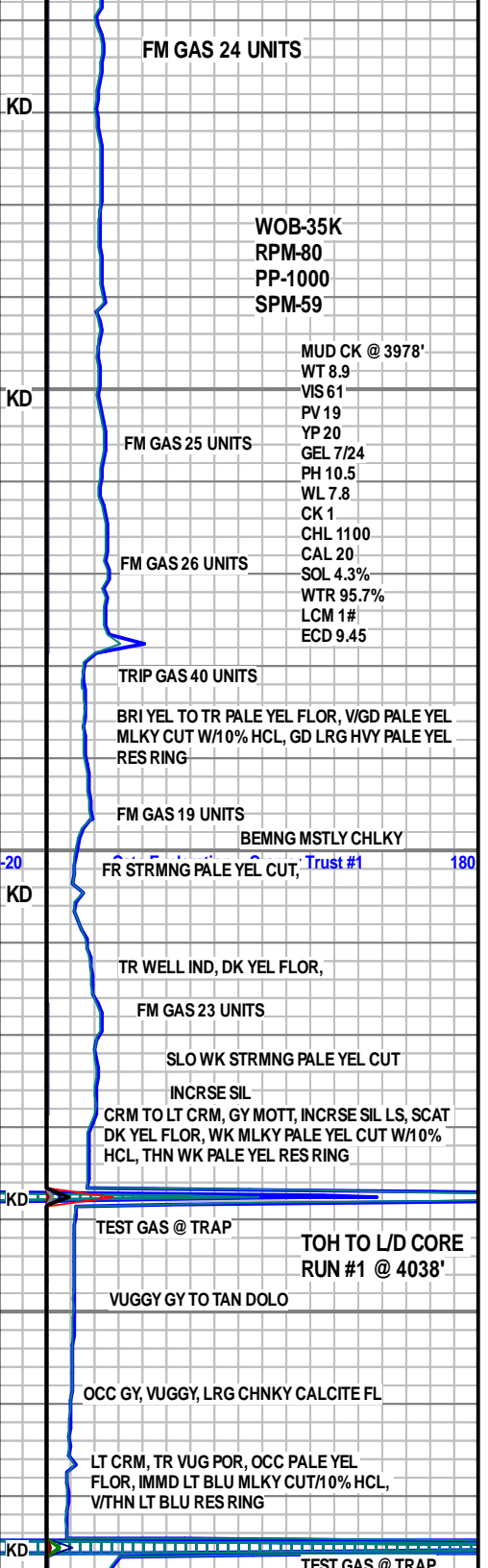
TOH TO P/U CORE TOOLS @ 3978'

+++++
 LS: OFF WHT TO LT CRM, SCAT LT TAN TO TAN, TR BRN MOTT, OCC WHT, MOD FRM, SCAT MOD SFT, MSTLY BRTL, V/FN XLN, SM MICRO XLN, BLKY, SCAT CHNKY, TR PLTY, SCAT ARG, SM DOLC CMT, OCC CHNKY CALCITE FL, OCC MIN PYR INC., SCAT TAN TO BRN SPOT STAIN W/TR DK BRN STAIN ALONG FRAC, TR WK ODOR, SCAT FRAC POR W/SM HAIRLINE, OCC PP/PITTING POR, OCC XLN POR, TR THN BDD LAM GY TO GRNSH/GY V/FN TXT PLTY SH, SCAT YEL TO DK YEL FLOR W/TR BRI YEL TO PALE YEL, TR IMMDD FR STRMNG PALE YEL CUT, THN GD PALEYEL RES RING

DOLO: TAN TO BRN, TR DK GY MOTT, SM LT TAN, TR WHT TO OFF WHT, MSTLYFRM, TR MOD SFT, FN TO V/FN XLN, MSTLY CHNKY, TR BLKY, SCAT WELL IND, MSTLY CALC CMT, OCC SIL, SM INTRBD LS, TR LAM LS W/CHLKY, OCC WHT SHRPPANG CHAL CHRT, ABNDT OOLTC, TR DK BRN SPOT STAIN, NO ODOR, SCAT XLN POR, SM MLDC POR, SM DK YEL FLOR, TR FR SLO STRMNG PALE YEL CUT, FR SPTTY PALE YEL RES RING

DOLO: GY TO SM LT GY, OCC DK GY, TR TAN TO LT TAN, SCAT OFF WHT, FRM, TR V/FRM, BRTL, TR CRMBLY, V/FN TO FN XLN, OCC MED XLN, OCC SUC TXT, PLTY, SM CHNKY, TR SIL, DECRSING CALC CMT, TR ARG, SM LAM LS, SCAT INTRBD LS W/TR DOLC CMT, TR DRSY EUHED CALCITE, TR CALCITE FL, TR PYR INC., OCC BRACH FRAGS, OCC LT SPOT STAIN, NO ODOR, SCAT TO SM FN VUG TO PP POR, TR HAIRLINE FRAC, TR XLN POR, SM DULL DK YEL MINRL FLOR, NO CUT

+++++
 TOH TO L/D CORING TOOLS SAND CORE RUN #2: P/U BIT #2: 7 7/8": JZ: ENPO183: K09887: 3x14: IN @ 4067'



FM GAS 24 UNITS

WOB-35K
 RPM-80
 PP-1000
 SPM-59

MUD CK @ 3978'
 WT 8.9
 VIS 61
 PV 19
 YP 20
 GEL 7/24
 PH 10.5
 WL 7.8
 CK 1
 CHL 1100
 CAL 20
 SOL 4.3%
 WTR 95.7%
 LCM 1#
 ECD 9.45

FM GAS 25 UNITS

FM GAS 26 UNITS

TRIP GAS 40 UNITS

BRI YEL TO TR PALE YEL FLOR, V/GD PALE YEL MLKY CUT W/10% HCL, GD LRG HVY PALE YEL RES RING

FM GAS 19 UNITS

BEMNG MSTLY CHLKY

FR STRMNG PALE YEL CUT, Trust #1 180

TR WELL IND, DK YEL FLOR,

FM GAS 23 UNITS

SLO WK STRMNG PALE YEL CUT

INCRSE SIL

CRM TO LT CRM, GY MOTT, INCRSE SIL LS, SCAT DK YEL FLOR, WK MLKY PALE YEL CUT W/10% HCL, THN WK PALE YEL RES RING

TEST GAS @ TRAP

TOH TO L/D CORE RUN #1 @ 4038'

VUGGY GY TO TAN DOLO

OCC GY, VUGGY, LRG CHNKY CALCITE FL

LT CRM, TR VUG POR, OCC PALE YEL FLOR, IMMDD LT BLU MLKY CUT W/10% HCL, V/THN LT BLU RES RING

TEST GAS @ TRAP

+++++
(-1279)

DOLO: LT CRM, SCAT OFF WHT, OCC LT TN, MOD FRM TO FRM, OCC MOD SFT, V/FN TO FN XLN, TR MIC XLN, CHNKY, SM BLKY, OCC PLTY, OCC CALC CMT, OCC PYR INC, OCC LT BRN SPOT STAIN, NO ODOR, SM XLN POR, OCC VUG POR, OCC HL FRAC POR, TR PALE YEL FLOR, NO VIS CUT, NO RES RING

DOLO: LT CRM, SCAT OFF WHT, TR LT TN, MOD FRM TO FRM, TR MOD SFT, V/FN TO FN XLN, SCAT MIC XLN, CHNKY, SM BLKY, TR PLTY, OCC CALC CMT, OCC LT BRN/BLK SPOT STAIN, NO ODOR, SM XLN POR, OCC HL FRAC POR, OCC VUG POR, TR PALE YEL TO YEL FLOR, SLO LT BLU MLKY VIS CUT W.10% HCL, V/THN FNT LT BLU RES RING

TOH P/U CORING TOOLS FOR CORE RUN #3 @ 4156'

+++++

LS: CRM, SCAT OFF WHT, SM V/LT CRM, TR GYSH TO GYSH/TAN MOTT, MSTLY MOD FRM, OCC HRD, BRTL, TR CRMBLY, MICRO XLN, SCAT TO SM V/FN XLN, CHNKY, TR BLKY, OCC WELL IND, OCC ARG, TR MIN PYR INC., TR EUHED CALCITE W/TR DRSY, OCC BLU/GY TO GY SHRPANG CHAL CHRT, OCC GLAUC, SM OOLTIC W/SCAT DOLO MTX, TR DK BRN STAIN ALONG FRAC, NO ODOR, SM TO SCAT FRAC POR W/SM HAIRLINE, OCC DIS FRAC, SM MOLDIC POR, OCC XLN POR, SCAT TO TR DK YEL FLOR W/OCC DULL YEL, NO VIS CUT

DOLO: GY TO LT GY, TR TO INCRSING LT CRM TO CRM, TR OFF WHT, SM FRM, MSTLYBRTL, V/FN TO MICRO XLN, SCAT V/FN XLN, SCAT WELL IND, BLKY, TR CHNKY, SM INTRBD LS, SM CALC CMT, OCC SIL, SM LAM TAN SILLS, SCAT INTRBD LS, OCC WHT ANG CHAL CHRT, SCAT MIN PYR INC., OCC GLAUC, SM FOSUS W/CRIN, TR GIL ALONG FRAC W/TR PYRC, OCC XLN POR, SCAT TO SM HAIRLINE FRAC, OCC MOLDIC TO PP POR, SCAT DULL YEL FLOR, TR WK MLKY PALE YEL CUT W/10% HCL, WK SPTY PALE YEL RES RING

+++++
TOH TO L/D CORE #3: P/U BIT #2: IN @ 4217'

LS: DK CRM TO SCAT TAN, INCRSING OFF WHT TO V/LT CRM, OCC WHT, TR DK TAN TO GYSH MOTT, MSTLY MOD FRM, TR FRM, BRTL, V/FN TO TR FN XLN, OCC MICRO XLN, PLTY, SCAT BLKY, SCAT ARG, TR SIL, TR DOLO CMT, SCAT INTRBD DOLO, SCAT TO TR THN LAM DOLO W/OCC PYRC, OCC TO TR WHT TO BLU/GY SHRPANG CHRT W/OCC SPIC, OCC FN CALCITE EUHED LINING PP POR/ DISS FRAC, NO VIS STAIN, NO ODOR, SM HAIRLINE FRAC, TR FRAC, TR PP TO FN VUG POR, SCAT TO SM DULL YEL TO TR DULL DK YEL FLOR, OCC W/WK MLKY PALE YEL CUT W/10% HCL

FG 28 UNITS

KD

FG 13 UNITS

KD

FG 14 UNITS

REAM 4 STANDS TO BOTTOM

MSTLY TAN SILLS

OOLT W/INTRBD LS/ DOLO MTX, FN TO V/FN XLN MTX, MOLDIC POR

OFF WHT W/GY MOTT, SM ARG, OCC WHT SHRP ANG CHALCHRT,

LS: CRM TO VLT TAN, TAN MOTT, OCC SIL, SCAT DOLC CMT, SCAT ARG, TR YEL TO DULL YEL FLOR, WK TO MOD FR MLKY PAL EYEL CUT W/10% HCL

KD

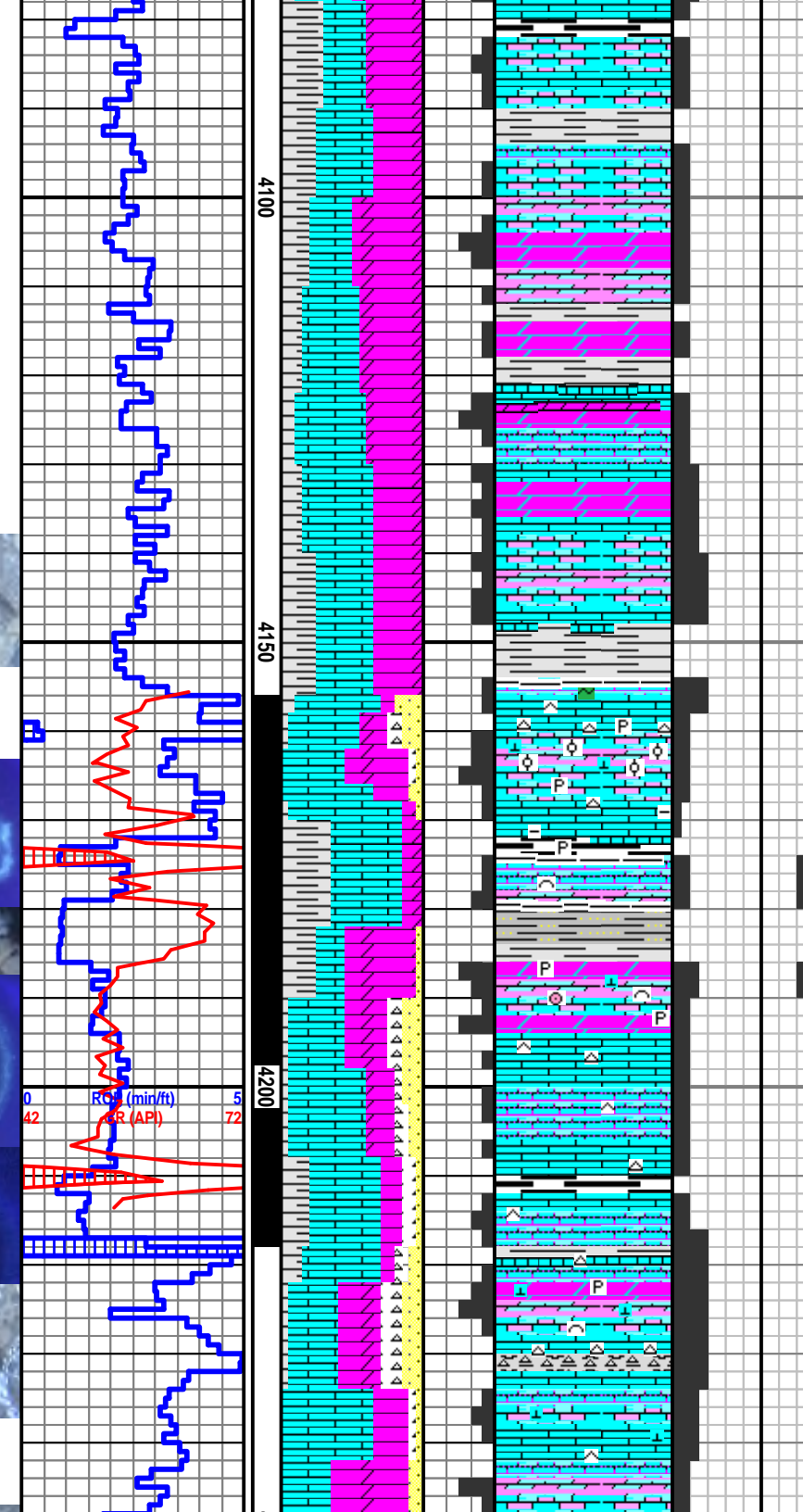
BECMNG TAN TO CRM LS W/SCAT SIL, WHT ANG CHRT

Cato Exploration :: Cramer Trust #1 180
SM XLN POR, OCC VUG POR, SCAT PALE YEL FLOR, NO VIS CUT

KD

SCAT XLN POR, OCC VUG POR, TR PALE YEL FLOR, NO VIS CUT

KD



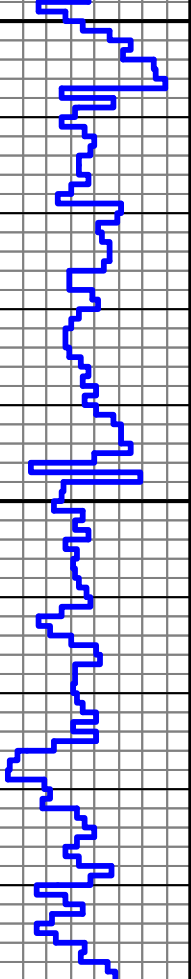
07/17/2014

07/18/2014

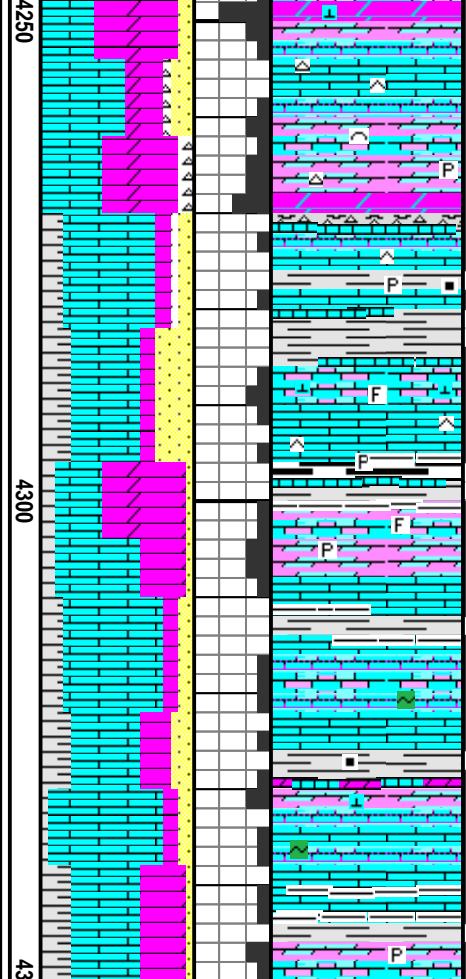
RC (min/ft) 5
RQ (API) 72

WOB-30K
RPM-70
PP-900
SPM-60

07/18/2014



ROP



DRILLER'S TD @ 4350' (-1547') ON 07/18/2014

LS: CRM TO LT CRM, SCAT V/LT TAN, SCAT GY, SCAT OFF WHT, OCC DK TAN TO BRN MOTT, FRM TO SM MOD FRM, TR CRMBLY, V/FN TO TR MICRO XLN, TR FN XLN, CHNKY, TR BLKY, TR PLTY, TR DOLC CMT, SCAT SIL, SM ARG, OCC CALCITE FL, OCC PYR INC., TR OPQ TO TRNSP SHRP ANG CHAL CHRT W/TR IMBDD FOSS, TR BIOCLST, NO VIS STAIN, NO ODOR, TR MOLDIC POR, TR XLN POR, SCAT FRAC POR W/HAIRLINE, OCC VUG POR, SCAT YEL TO DULL YEL FLOR, NO VIS CUT

MARMATON @ 4295'

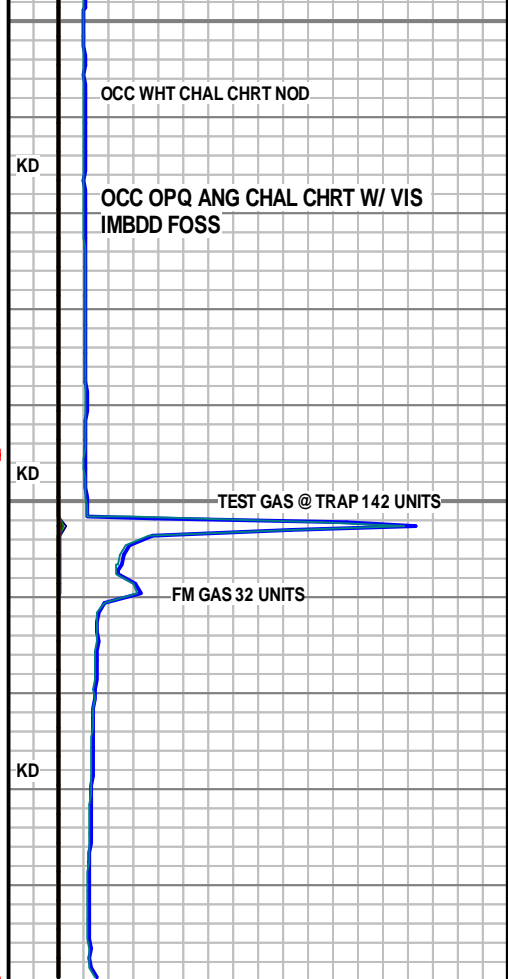
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(-1492)

LS: DK TAN TO BRN, TR GYSH/TAN, TR OFF WHT TO LT CRM, SM V/FRM TO HRD, BRTL, V/FN TO MICRO XLN, PLTY, SM BLKY, TR CHNKY, SM SIL, INCRSING DOLO CMT, SM TO SCAT INTRBD DOLO, TR CALCITE FL W/OCC DRSY EUHED, TR PYR INC., OCC GLAUC, OCC FOSS FRAGS, NO VIS STAIN, NO ODOR, SM FN TO HAIRLINE FRAC, OCC XLN POR, OCC PP POR, SM LAM SH: GY TO DK GY, OCC BLK, OCC V/DK GY, MOD FRM, V/FN TXT, OCC CARB, OCC MASS PYR, TR TO SCAT DULL YEL TO OCC DULL PALE YEL FLOR, TR SLO FR MLKY PALE YEL CUT W/10% HCL,

+++++
DRILLER'S TD @ 4350' (-1547') ON 07/18/2014

CATO EXPLORATION, LLC
CRAMER TRUST #1 GL:
2796' KB: 2803'
SEC. 27-16S-30W

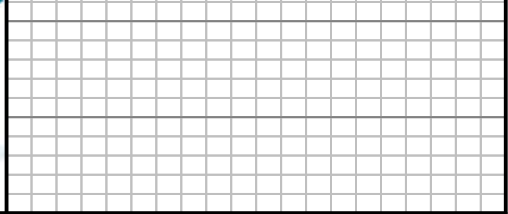
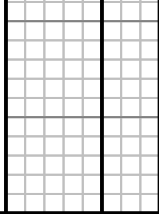
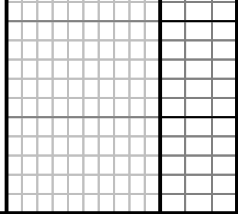
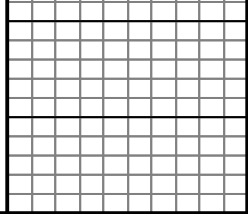
1420' FWL & 1320' FSL OF SHL:
27-16S-30W LANE CO., KS SEC.



GAS

ROP (min/ft) 5
GR (API) 72





October 22, 2014

Lori Greenwood
Cato Exploration, LLC
15 East 5th St., Ste 2100
Tulsa, OK 74103

Re: Plugging Application
API 15-101-22527-00-00
Cramer Trust 1
SW/4 Sec.27-16S-30W
Lane County, Kansas

Dear Lori Greenwood:

The Conservation Division has received your Well Plugging Application (CP-1).

Under K.A.R. 82-3-113(b)(2), you must notify DISTRICT 1 of your proposed plugging plan at least 5 days before plugging the well. DISTRICT 1's phone number is (620) 225-8888. Failure to notify DISTRICT 1, or failure to file a Well Plugging Record (CP-4) after the well is plugged will result in a penalty recommendation.

Under K.A.R. 82-3-600, you must file an Application for Surface Pit (CDP-1) if you wish to use a workover pit while plugging the well. Failure to timely file a CDP-1, failure to timely remove fluids, or failure to timely file Closure of Surface Pit (CDP-4) or Waste Transfer (CDP-5) forms will result in a penalty recommendation.

This receipt does NOT constitute authorization to plug this well if you do not otherwise have the legal right to do so.

This receipt is VOID after April 22, 2015. If the well is not plugged by then, you will have to submit a new CP-1 if you wish to plug the well.

The April 22, 2015 deadline does NOT override any compliance deadline given to you by Legal, District, or other Commission Staff. Failure to comply with any given deadline will still result in the Commission assessing penalties, or taking other legal action.

Sincerely,
Production Department Supervisor

cc: DISTRICT 1