

MBC WELL LOGGING LLC

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

Well Name: DAVIDSON 1-30 C & M EXPLORATION
 Location: PRATT COUNTY, KANSAS USA
 Licence Number: 35335
 Spud Date: 12-13-2016
 Surface Coordinates: 330'fsl, 660'fwi SEC 30-T27S-R11W
 Bottom Hole: ELI WLS
 Coordinates: API-15-151-22453-00
 Ground Elevation (ft): 2917' K.B. Elevation (ft): 2928'
 Logged Interval (ft): 3400 To: 4850 Total Depth (ft):
 Formation: ARBK. RUN PRODUCTION CSG
 Type of Drilling Fluid: MUDCO MUD CO BRAD BORTZ (620)793-2421

Region: SOUTHFORK

Drilling Completed: 12-19-2016

WW RIG 14 NOEL PEREZ TP, CHARLES CRAWFORD CO-MAN

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












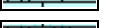


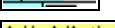
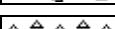


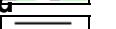




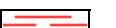




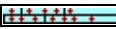






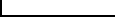









OPERATOR

Company: C & M EXPLORATION LLC
 Address: CHARLES CRAWFORD (918)691-4905
 PO BOX 14331
 TULSA, OKLAHOMA 74159

MUDLOGGER

Name: AUSTIN GARNER CELL (620)655-2016
 Company: MBC WELL LOGGING LLC
 Address: 21156 RD 22
 MEADE, KANSAS 67864

ROCK TYPES

	Ign		Dolo new		Gyp		Ss		Calc shale
	New symbol		Newdolo ls		Sltst		Grn sh strk		Granitewash
	Anhy		Ls & ooids		Salt		Lmy sh-2		Ls shly-b
	Brec		Oolitic ls -1		Sndy sh--reg		Grn mott gy		Poor sortd ss
	Cht		Stgensndy-		Sndy sh		Shale-1		Snd-ls-sh
	Coal		New ls-1		Sltst-1		Red sh-1		
	Congl		Carby shale		Sltly-shale		Stgensndy-arkos		
	New dolomite		Lmy carby		Lmy ss-1		Sndy ool ls		
	New symbol		Carb sh		Arkosic snd		Sndy-ls-1		

ACCESSORIES

LITHOLOGY

- Ign
- New symbol
- Anhy
- Brec
- Cht
- Coal
- Congl
- New dolomite 2012
- New symbol
- Dolo new
- Newdolo ls 2
- Ls & ooids
- Oolitic ls -1
- Stgensndy-arkos
- New ls-1
- Carby shale
- Lmy carby sh-3
- Carb sh
- Gyp
- Sltst
- Salt
- Sndy sh--red
- Sndy sh
- Sltst-1
- Sltly-shale
- Lmy ss-1

- Arkosic snd
- Ss
- Grn sh strk
- Lmy sh-2
- Grn mott gy sh
- Shale-1
- Red sh-1
- Stgensndy-arkos
- Sndy ool ls
- Sndy-ls-1
- Calc shale
- Granitewash
- Ls shly-b
- Poor sortd ss
- Snd-ls-sh

FOSSIL

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

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

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- New dolostringer
- Dol
- Fldspr-1
- Ferrpel

- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Qtz
- New symbol
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Styolitic
- Slickenside

STRINGER

- Anhy
- Red sh stringer
- Arg
- Bent
- Coal

- Dol
- Gyp
- Oolls-1
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Grn sh strk

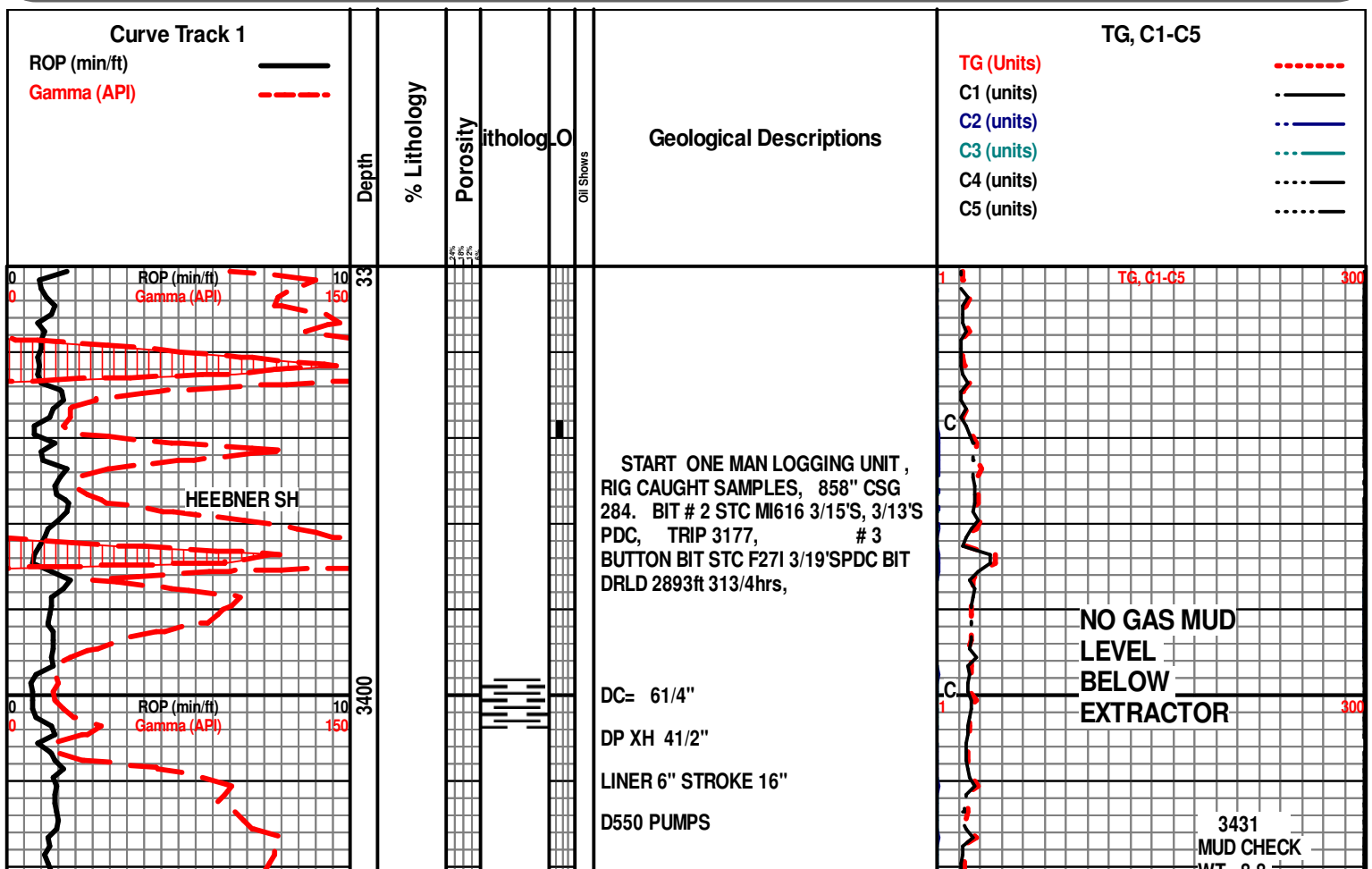
TEXTURE

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

OIL SHOW

- Even
- Spotted
- Ques
- Dead

Comments



PP 850
SPM 50
WOB 38
SPM 80+

NO SAMPLES

NOTE LOST 150 BBL AT 2863 TOTAL
LOSS 250-300bbl FROM 2863 TO 3177

WT 0.9
VIS 45
PV 13YP 14
GEL 11/34
PH 12.5
FIL 11.2
ALKFIUL 2.2/
CHL 8,000
CAL 80
SOL 3.1
LCM 16

3450

3500

3550

3600

ROP (min/ft)
Gamma (API)

10
150

D550 PMPS

SS; OFF WH CLR, VF-F GR, HD TT TO
MED TT, SME V/SLI CALC, VF BLK MN,
NO ODOR, NO BLK FLOR, NSOC

LS; DULL TN TO BUFF, HD F XLN TO
F- SPARRY RD XTLS, TR COMNGLD LT
GYISH GRN SH, OCC FOSS FRGS, TR
F-XTL DOLOMITIC NO ODOR, SME
DULL YEL FLOR, NSOC

SS; OFF WH SLI GY, SME SLI BRN
TINT FR TO MED TT, BLK LENS, MICA,
INCRS CALC BLK FLOR NSOC NO
ODOR

LS; LT BUFF TO GYISH BRTL
SPARRITIC, SME FGOSS, CHLKY IP, TO
OOL, TR GYISH GYP W/ SLT MOLD,
SUCROSIC GY W/ DK PELL, MFNSOC
NO ODOR INTBD SS STRINGERS

LS; GY BRN F SNDY TR OOL LS
STRNGR, MFNSOC NO ODOR

LS; TN GY FOSS FRGMTL, TO VF
OOL, - HASH-, MFNSOC, NO ODOR
INCRS LT GY SUCROSIC W/ BLK NOD
& PELL

LS; GY BRN HD DNS FOSS FRGMTL,
CHLK EDGES, GY VIT CHT, STYOLITIC
IP MFNSOC NO ODOR

LS; TR TN SUGARY MED OOLCAS,
NO SHOW— PREDLS; GY BRN HD
XLN FOSS FRGMTL, & TRACE FOSS,
CHLKY IP, PYR MFNSOC

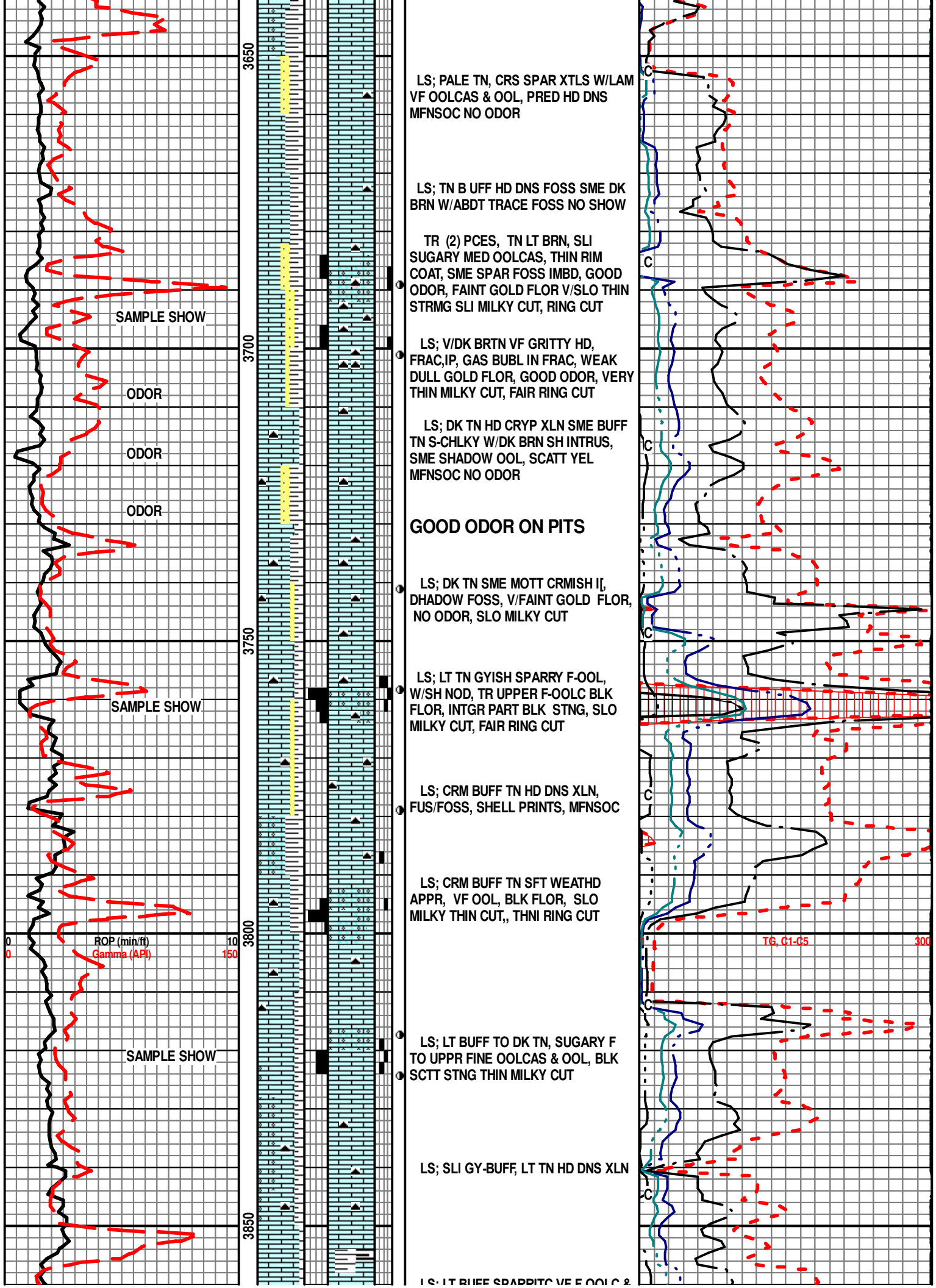
READJUST
EXT

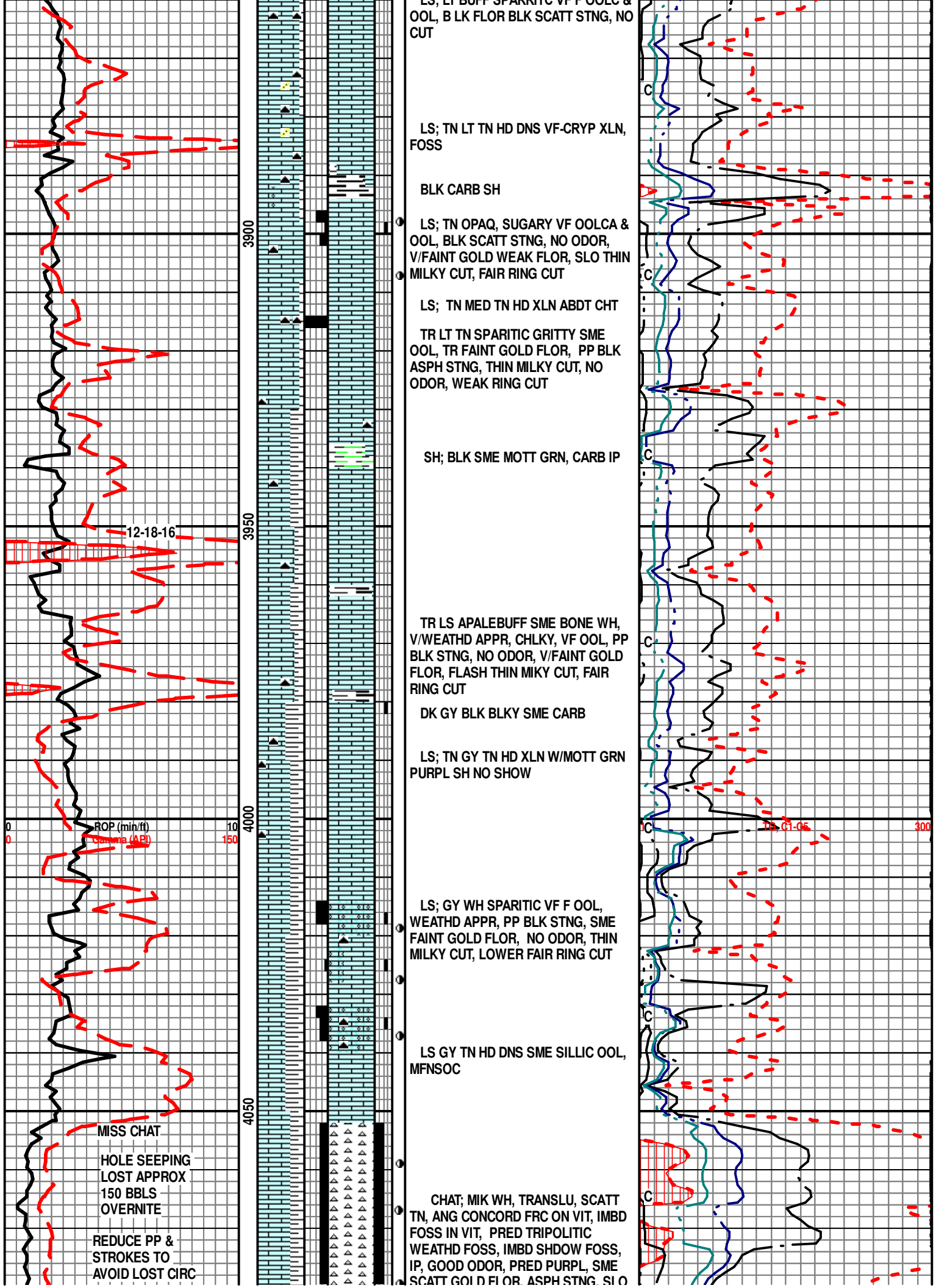
MUDLEVEL
FLOODED
EXTR

TG, C1-C5

300

FREEZING
OFF AT PITS





LS; LT BUFF SPARKLE VF F OOLC & OOL, B LK FLOR BLK SCATT STNG, NO CUT

LS; TN LT TN HD DNS VF-CRYP XLN, FOSS

BLK CARB SH

LS; TN OPAQ, SUGARY VF OOLCA & OOL, BLK SCATT STNG, NO ODOR, V/FAINT GOLD WEAK FLOR, SLO THIN MILKY CUT, FAIR RING CUT

LS; TN MED TN HD XLN ABDT CHT

TR LT TN SPARITIC GRITTY SME OOL, TR FAINT GOLD FLOR, PP BLK ASPH STNG, THIN MILKY CUT, NO ODOR, WEAK RING CUT

SH; BLK SME MOTT GRN, CARB IP

TR LS APALEBUFF SME BONE WH, V/WEATHD APPR, CHLKY, VF OOL, PP BLK STNG, NO ODOR, V/FAINT GOLD FLOR, FLASH THIN MIKY CUT, FAIR RING CUT

DK GY BLK BLKY SME CARB

LS; TN GY TN HD XLN W/MOTT GRN PURPL SH NO SHOW

LS; GY WH SPARITIC VF F OOL, WEATHD APPR, PP BLK STNG, SME FAINT GOLD FLOR, NO ODOR, THIN MILKY CUT, LOWER FAIR RING CUT

LS GY TN HD DNS SME SILLIC OOL, MFNSOC

CHAT; MIK WH, TRANSLU, SCATT TN, ANG CONCORD FRC ON VIT, IMBD FOSS IN VIT, PRED TRIPOLITIC WEATHD FOSS, IMBD SHDOW FOSS, IP, GOOD ODOR, PRED PURPL, SME SCATT GOLD FLOR, ASPH STNG, SLO

12-18-16

ROP (min/ft)
Gamma (API)

MISS CHAT
HOLE SEEPING
LOST APPROX
150 BBLs
OVERNITE
REDUCE PP &
STROKES TO
AVOID LOST CIRC

12-18-16

300

COAT FOLDS, FOLDS, RICH STR, SLS
THIN MIKY CUT, FAIR RING CUT

LS; CRM TN TO CRMISH PINK
WEATHD, ABDT CHLK, SME SPAR
CMTED F-OOL, NO ODOR,

LS; CRMISH PINK SFT CHLKY, MICA

LS; LT GYISH TN, SPAR CMTED VF-F
BIOSPARITIC/OOL, ABDT CHLK, NO
ODOR, SME TR MIN FLOR NSOC

LS; TN, MED BRN, F-XLN, MILK WH
WEATHD CHT W/PYR, SME CLR VIT
EW/FOSS IMBD, PP BLK SPKC, WEAK
DULL YEL FLOR, NO ODOR, NSOC

SH GY DK GY, SME BRNISH SMO,
PLATY TO BLKY SME PYR, INCRS
CALC

SH DK BRN TO BLK GY, TR GRN,
BLKY SLTY, LMY PYR,

LT BUFF TN F OOL, CHLKY NO SHOW

DOLO; TRACE-- LT TN GYISH, VF F
RHOMBIC, INTBDS DOLOMITIC LS &
LS, ABDSTG DK MOTT WH CHT, SME
PALE ORNG, W/THIN CLR WINDOW
PANE LENS W/IMBD FOSS,

BUFF WH, WEATHD APPR, F-OOL
NO SHOW

DOLO; V/LT TN SLI WH, F-RHOMB,
BRTL TO FRI, GOOD ODOR ON PITS,
INTGR RHOM VUG POR IP, PP INTGR
BLK STNG, TR OVERALL, TR BRITE
YELWH FLOR, PRED BLK TO V/FAINT
GOLD, FLASH STRNG MILKY CUT DRY,
GOOD RESID RING CUT

UNIT FREEZING
OFF
TEMP -15*, WIND
CHILL -25*

SCALE
CHANGE

<OO-1000u>

RE-GLYCOL &
THAW OUT

Scale Chg
TG, C1-15 1000

4116
MUD CHECK
WT 9.3
VIS 50
PV 16
YP 18
GRL 11/38
GEL 11/38
PH 11.0
FIL 9.6
ALKFIL .7/
CHL 6,000
CAL 80
SOL 6.7
LCM 20

TG, C1-C5 1000

1033u

1060u

PP 800/300
GPM 249
SPM 38

KINDERHOOK

ROP (min/ft)
Gamma (API)

VIOLA

4296 CFS
15/30/45/60

4100

4150

4200

4250

NO

NOTE 45 & 60 MIN
CIRC STRONG
ODOR ON PITS

LS; BRN TN WEATHD APPR, TO F
-XLN, SHLY SME DOLOMITIC, ABDT
CHT, BLK TO DK FAINT GOLD MIN
FLOR NSOC NO ODOR

DK; BRN TN HD SEMI VIT TO SLI
TRIPOLITIC ANG CONCORD FRAC CHT
W/ DK BRN TN HD LS NO SHOW

**SAMPLES ARE
TRASHY-MISMASH**

LS; & DOLOM, DK TN TO TN PRED
HD DNS ABDT DK BRN CHT NO SHOW

DK BRN GRITTY DOLOMITIC SH

NO EVIDENSE OF SS IN SMPLES, NO
ODOR,

TR (1) SS WH CLR F GR, ANG, TR
GLAU, NFSOC

SS; OFF WH, WH, HDTT TO MED TT
TR FRI, W/SRTED F-GR, S RD TO
S-ANG, SME SLO DOMO CMT OR
INTGRUS, ABDT GLAU SCATT MICRO
PYR, TR DK BRN BANDED SS TR DK
BRN DOLO W/ F-UPR F IMBD RD CLR
QTZ, BLK FLOR, BRN STNG PROB MIN
STN

DK BRN FLAKEY SH

DOLOMITIC LS GY TN TN HD DNS F
XLN

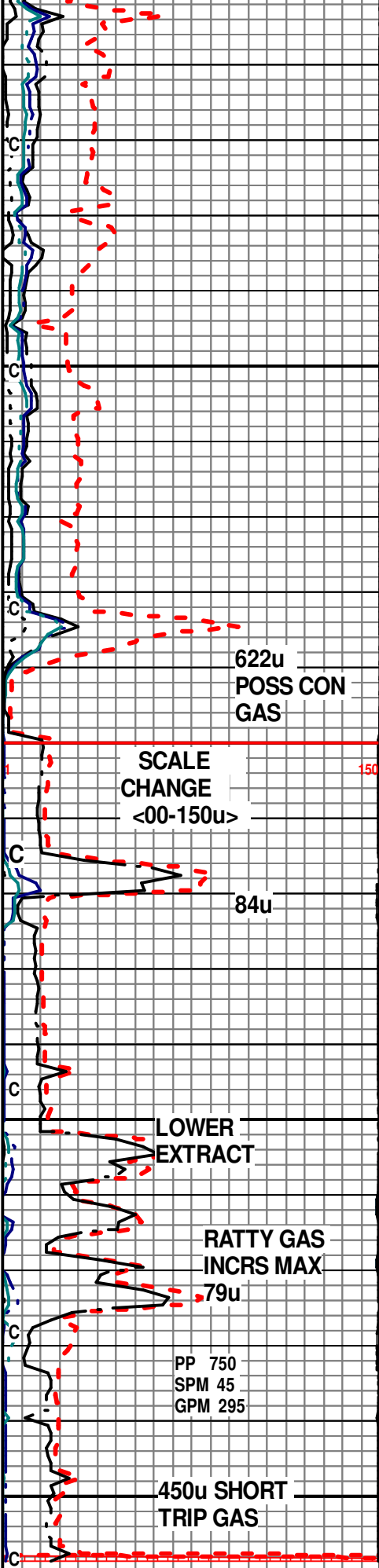
**SAMPLES ARE
TRASHY-MISMASH**

SS; TR WH CLR F GR NFSOC

LT BRN CHLKY DOLOMITIC OOL
INTBD GRN CKLAY, NO SHOW

DOLO V/DK BRN MOTT F- UPPER
FINE RHOMBIC NO SHOW

THANKS FOR USING
MBC WELL LOGGING
AUSTIN & MARLA GARNER



4300
4350
4400
4450
4500

Gamma (API)

12-19-16

METAL IN SMPLS

4510 RTD
MUD CHECK
WT 9
VIS 51
PV 17
YP 18
GEL 145/34
PH 10.5
FIL 8.8
ALKFIL .5/
CHL 3,000
CAL 80
SOL 4.8
LCM 22

DEV 11/2* BIT
WAS SHOT

RTD 4510

PP 750
SPM 45
GPM 295

450u SHORT
TRIP GAS

