



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

Well Name: M & M Exploration, Inc. Z-Bar 32-6
Location: Sec. 32--33S-14W Barber Co., KS.
License Number: 15-007-23855 Region: Aetna
Spud Date: 4/6/2012 Drilling Completed: 4/15/2012
Surface Coordinates: 2080'FNL & 2420'FWL, NW/4
Bottom Hole As Above
Coordinates:
Ground Elevation (ft): 1,690' K.B. Elevation (ft): 1,702'
Logged Interval (ft): 3,850' To: 4,950' Total Depth (ft): 4,950'
Formation: Pennsylvanian & Mississippian
Type of Drilling Fluid: Chemical Mud

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

OPERATOR

Company: M & M Exploration, Inc.
Address: Attn: Mike Austin
4257 Main St., Suite 230
Westminster, CO 80031

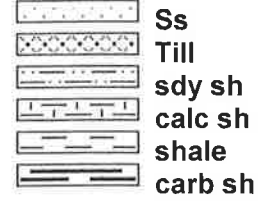
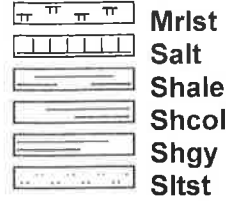
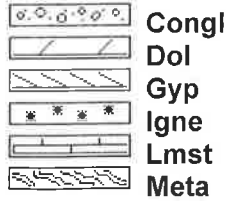
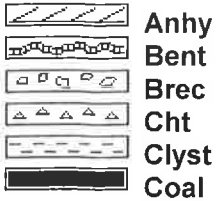
GEOLOGIST

Name: Mike Pollok
Company: MAP Exploration, Inc.
Address: P.O. Box 106
Purcell, OK 73080

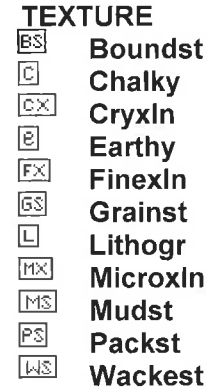
Comments

Southwind Rig # 70 Samples
Mudlogging Unit #17
Mudlogger: Beth Brock

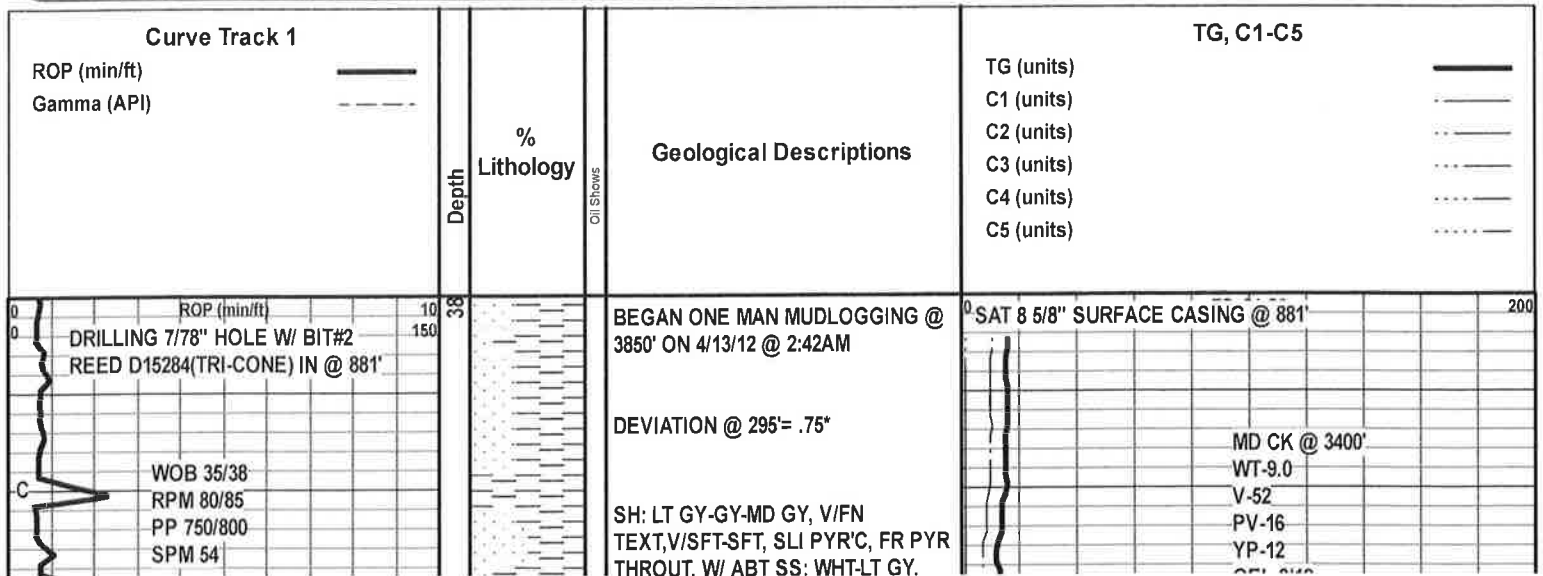
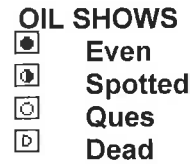
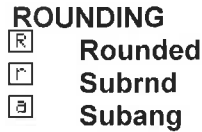
ROCK TYPES

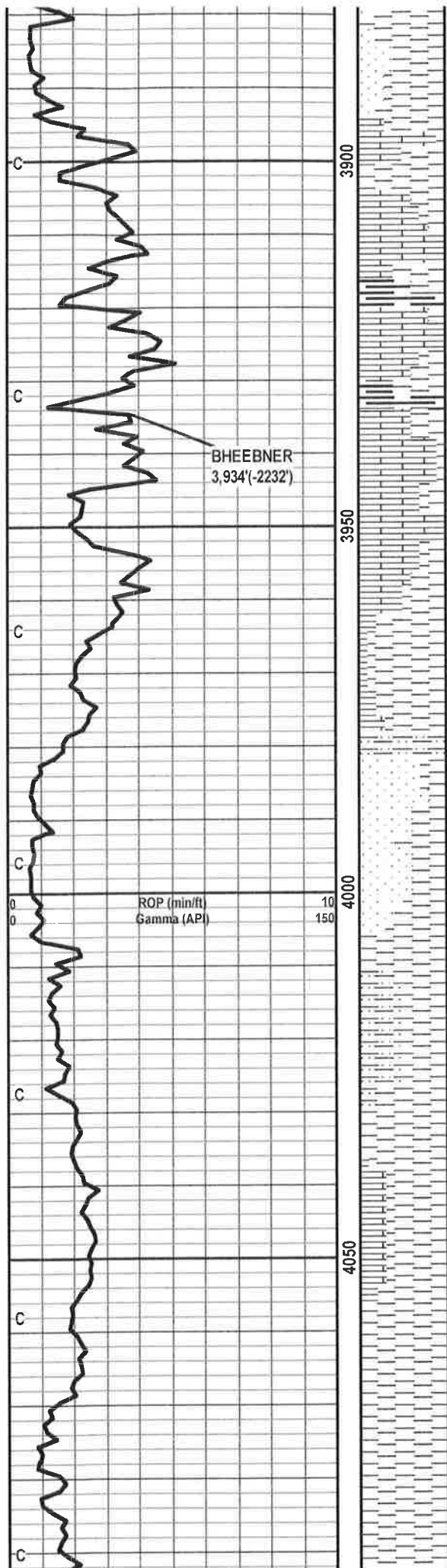


ACCESSORIES



OTHER SYMBOLS





FN-MD GRN, CONS, WELL RND, SM
GLAUC SPKS, NO VIS FLU, STN, OR
ODOR

LS: OFF WT-TN-DK BRN, V/FN
MICRO-XLN, DNS, ARG, SLI SHLY,
CALC I.P., BRT WHTSH YEL FLU, NO
VIS STN, CUT, OR ODOR

SH: DK GY-VDK BRN-BLK, V/FN
WXY TEXT, HD, SLI PLTY, PYR,
CARB, CALC

LS: WHT-OFF WT TN-BRN, FN
MICRO-XLN GRDING INTO
INTER-XLN, V/GD P.P.POR W/ ABT
VUG POR., SLI FRI, SM FOSS, ABT
DUL YEL AND YEL FLU, TR DOS, NO
VIS CUT OR ODOR

SS: GY-TN, TRNSL, MD-CG GRN,
SUB-ANG GRDING TO RND, CONS,
INTER-XLN POR, FRI, PYR'C, SHLY,
FN GLAUC SPKS, SIL, NO VIS FLU,
STN, CUT, OR ODOR

SH: LT GY-GY-DK GY, FN TEXT,
GRTY, SNDY I.P., PYR'C, MICA, FISS,
PYR THROUT

SH: LT GY-GY-DK GY, V/FN TEXT,
MD SFT, SLI LMY, PLTY, SLI MICA,
SLI FISS

SH: GY-DK GY- LT GRN, V/FN TEXT,
V/SFT, GLAUC, V/PLTY, SLI PYR'C

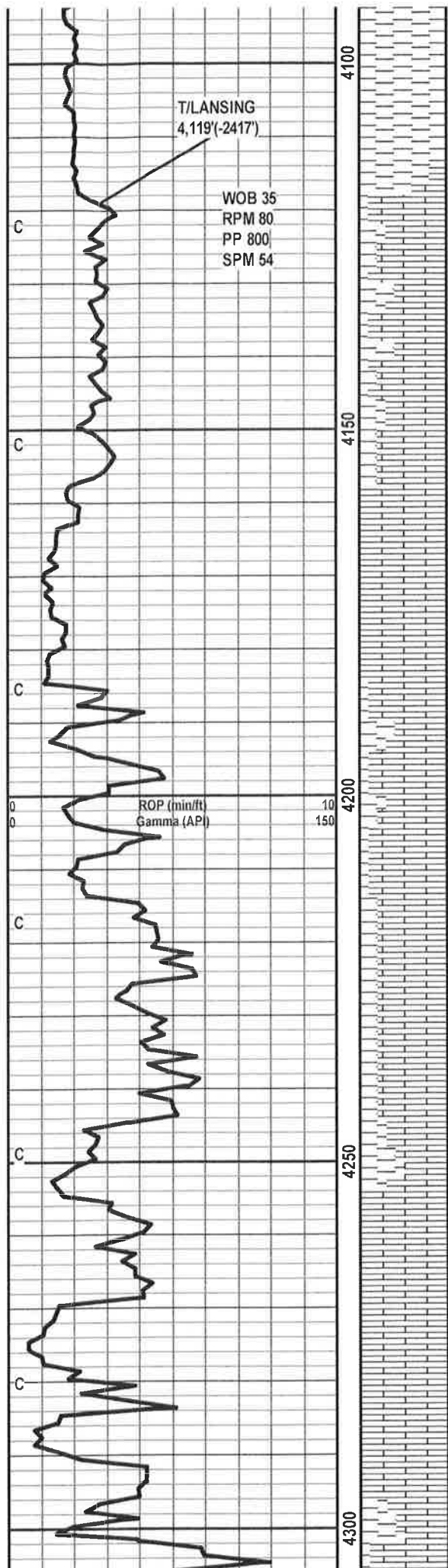
GEL-8/12
PH-9.0
WL-14.0
CK-2
CHL-6000
CA-80
SLD-4.0
LCM-2#

SHALE GAS

TG, C1-C5

200

MD CK @ 4033'
WT-7.1
V-51
PV-13
YP-17
GEL 9/15
PH-9.0
WL-16.6
CK-2
CHL-7100
CA-240
SLDS-4.9
LCM-2#



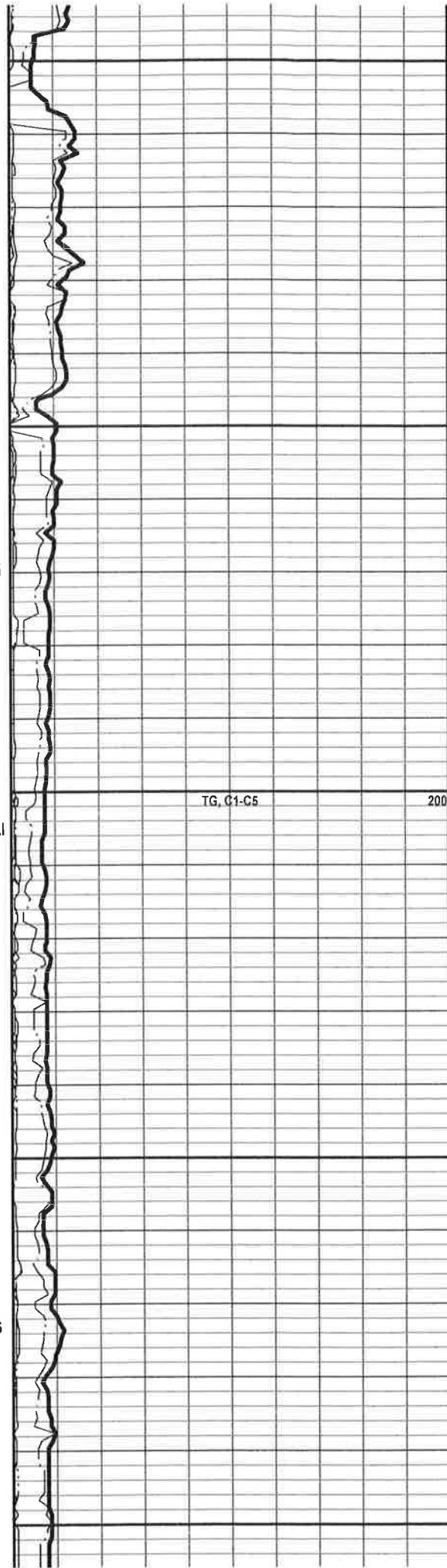
LS: GY-TN-DK GY, V/FN MICRO-XLN,
DNS, V/SHLY, FOSS, V/DULL FLU,
NO VIS STN, CUT, OR ODOR

LS: WHT-OFF WT-TN, V/FN
MICRO-XLN, SM P.P.POR. FOSS, SLI
CALC, SLI ARG, SM DUL YEL FLU,
NO VIS STN, CUT, OR ODOR

LS: OFF WT-LT GY-TN-BRN, V/FN
MICRO-XLN, DNS, V/ARG, FOSS, SLI
SHLY, SM V/DULL FLU, NO VIS
STN,CUT, OR ODOR

LS: AAB

LS: OFF WT-TN-DK BRN,
MICRO-XLN, GD P.P, POR, SLI FRI,
SLI SUC, ARG, GD YEL FLU, NO VIS
STN, CUT, OR ODOR



4/14/12
12:01 AM

4350

4400

4450

4500

ROP (min/ft)
Gamma (API)

T/STARK
4,498' (-2796')

LS: WHT-OFF WT-TN-LT GY, V/FN
MICRO-XLN, DNS, HD, SLI SHLY,
ARG, V/CALC, FOSS, SM V/DULL
FLU, NO VIS STN, CUT, OR ODOR

LS: AAB

LS: OFF WT-TN-DK BRN, FN
MICRO-XLN, SM P.P.POR, ARG, SLI
FOSS, DUL BRNSH YEL FLU, NO
VIS STN, CUT, OR ODOR

LS: WT-OFF WT-GY-TN, V/FN
MICRO-XLN, DNS, SM P.P.POR,
V/ARG, CALC, SHLY, V/DUL BRNSH
YEL FLU, NO VIS STN, CUT, OR
ODOR

LS: OFF WT-TN-DK BRN, INTER-XLN,
FRI, SUC, V/GD P.P.POR W/ SM VUG
POR., ARG, SLI MOTT, W/SM
SCTTRD FRSH CHT, ABT DUL YEL
FLU, SM DOS, NO CUT OR ODOR

SH: GY-DK GY-BLK, V/FN WXY
TEXT, MD FM-HD, PYR'C SPKS,
CALC, CARB

LS: WT-OFF WT-TN, V/FN
MICRO-XLN, CHLKY I.P. GRDING
INTO HD DNS, ARG, SLI MOTT

TG, C1-C5

200

MD CK @ 4490'
WT-9.3
V-45
PV-16
YP-12
GEL-6/10
PH-9.5
WL-10.0
CK-2
CHL-6200
CA-160
SLDS-7
LCM-4#

SHALE GAS 104
UNITS

WOB 36
RPM 80
PP 90
RPM 54

T/HUSHPUCKNEY
4,544'(-2842')

ROP (in/ft)
Gamma (API)

T/CHEROKEE
4,693'(-2991')

4/15/12
12:06 AM

T/MISSISSIPPIAN

4550

4600

4650

4700

INTO HD, DNS, ARG, SLI MOTI, SLI
FOSS, YEL FLU, SM DOS, NO VIS
CUT, OR ODOR

SH: DK GY-BRN-BLK, V/FN WXY
TEXT, HD, V/CARB, CALC, MICA,
PLTY

SH: AAB

SH: LT GY-GY-GRN, V/FN TEXT, MD
SFT-FM, GLAU'C, LIMEY, PLTY, W/
ABT LS: OFF WT-TN, V/FN
MICRO-XLN, SLI DNS, ARG,
FOSS, SM DUL YEL FLU, NO VIS
STN, CUT, OR ODOR

LS: WHT-OFF WT-TN, V/FN
MICRO-XLN, DNS, ARG, SHLY,
FOSS, CALC, V/DUL YEL FLU, NO
VIS STN, CUT, OR ODOR

SH: DK GY-BLK, V/FN WXY TEXT,
MD FM-HD, PLTY, CARB, SLI CALC,
GRDING INTO MULTI COLOR SH

SS: WHT-GRN-TN, V/FN GRND,
CEMENT, SM P.P.POR, W/ ABT FRSH
AND SM TRIP'C CHERT OPA, TAN,
GRN, DUL YEL FLU, SLI ODOR, AND
V/SLW STRMING CUT,

DOLO: WHT-TN-BRN, MICRO-XLN W/

SHALE GAS
140 UNITS

SHALE GAS
202 UNITS

SHALE GAS
67 UNITS

4,123 (3021)

ROP (min/ft)
Gamma (API)

0 0 10 150

4750 4800 4850 4900

C C C C C C C

50

DROP SURVEY. TOH FOR ELOGS