

JUSTIN D. CARTER

CONSULTING GEOLOGIST

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

Well Name: SAVAGE #1
Well Id:
Location: SW, SE, SW Sec. 15 - 21S - 4E Marion Co., KS
License Number: 15-115-21504-0000
Spud Date: 07/13/18
Surface Coordinates: 330' FSL & 1650' FWL
Region: Savage
Drilling Completed: 07/16/18

Bottom Hole 718': 1/4 DEG, 1493': 1/2 DEG, 2350': 0 DEG
Coordinates:
Ground Elevation (ft): 1292' K.B. Elevation (ft): 1298'
Logged Interval (ft): 1300' To: 2460' Total Depth (ft): 2460'
Formation: SWOPE, MISS, HUNTON
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: 4257 Main St., #230
Westminister, CO 80031
Co. Geo.: Mr. Mike Austin

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Phone: 620-655-1187

Comments

Drilling Contractor: C&G Drilling Rig #1
Tool Pusher: Chris Nelson

8 5/8" surface casing set at 252'

Mud: Fud Mud
Engineer: Aaron Rush

Open-Hole Loggers: Weatherford Wireline Services

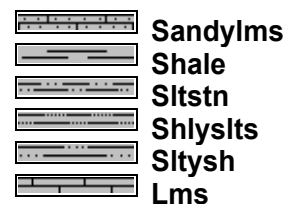
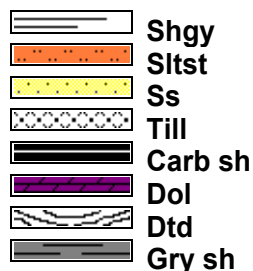
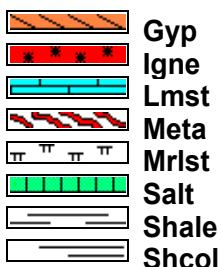
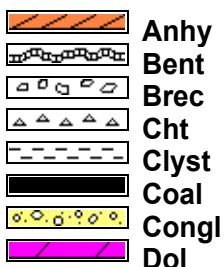
Remarks

After careful review of the sample log and electric logs, the decision was made to P&A the Savage #1.

Respectfully submitted,

Justin D. Carter
Consulting Geologist

ROCK TYPES

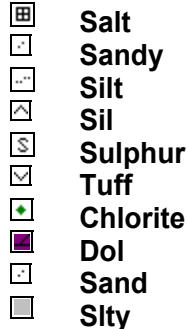


ACCESSORIES

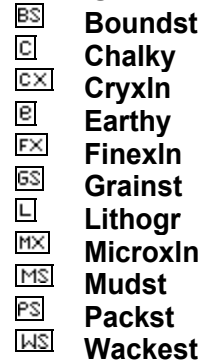
FOSSIL



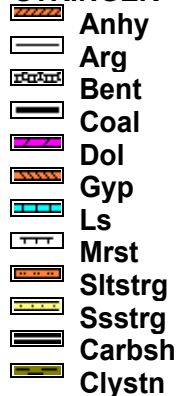
MINERAL



TEXTURE



STRINGER



OTHER SYMBOLS

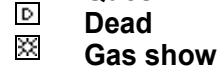
INTERVALS



OIL SHOWS



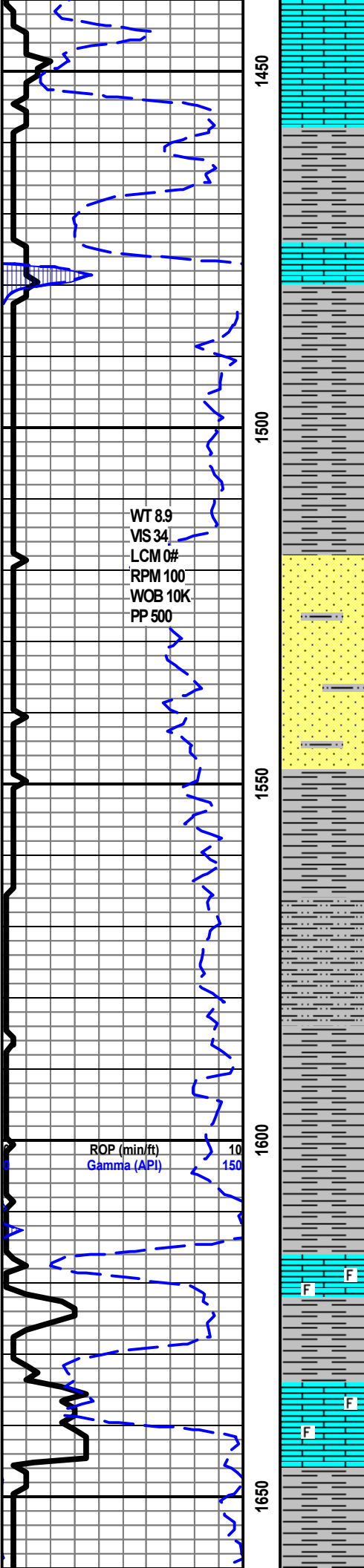
Ques



Curve Track 1		Depth	Lithology	Oil Shows	Geological Descriptions	Remarks
ROP (min/ft)	Gamma (API)					
0	150	12				
0	150					
BIT #2 LOGIC PDC 7 7/8" RB 616 S/N: 4126 2/18s, 1/12, 6/20s IN @ 252'					DISPLACE HOLE @ 1200'	
					GEOLOGIST ON LOCATION 12:30 P.M. 07/14/18	
		1300				
WT 8.7 VIS 32 LCM 0# RPM 100 WOB 10K PP 500					LS- CRM LT GY, HRD, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO MTRX IP, IMBED FOSS FRAGS SCAT THRU, NO FLO, NO VIS POR	1:45 P.M. 07/14/18
						START 20' SAMPLES @ 1300'
					LS- CRM, HRD TO BRITT IP, VF-XLN, SUB-SUCRO MTRX THRU, IMBED FOSS FRAGS IP, NO FLO, NO VIS POR	CN
						CN
		1350			SLTST- GY, TT, F-GRNS, MICA BLK SH IP, PR INTER-GRN POR	
						CN
					SHLY SLTST- GYGRN, TT, F-GRNS, LAM GRN SH IP, MICA BLK SH IP, NO VIS POR	
		1400			LS- TN BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR	CN
					LS- LT GY BFF, HRD DNS, SUCOR MTRX IP TO RE-XLN MTRX IP, TR IMBED FOSS FRAGS, NO FLO, TR INTER-FOSS POR, NS	
					HEEBNER 1428' (-130')	CN

BIT #2
LOGIC PDC 7 7/8"
RB 616
SN: 4126
2/18s, 1/12, 6/20s
IN @252'

WT 8.7
VIS 32
LCM 0#
RPM 100
WOB 10K
PP 500



LS- OFF WHT, HRD, F/VF-XLN, SUB-SUCRO MTRX IP TO
SUB-CHLKY MTRX IP, TR MED CALC XLS, NO FLO, TR
INTER-XLN POR TO NO VIS POR THRU, NS

SH- GY BLK, SFT TO FRM IP, FISS, WXY, TR SLTY SH

SH- GY, FRM, BLKY, SLTY IP TO LMY IP

SH- GY, A/A

SS- OFF WHT LT GY, TT, F-GRNS, FR SRT, SUB-RND GRNS, DISS
BLK SH SCAT THRU, TR LAM SLTST, NO FLO, PR INTER-GRN
POR THRU, NS

SH- GY, FRM, FISS TO BLKY IP, SLTY

SLTST- LT GY OFF WHT, TT, F-GRNS, NO VIS POR

SH- LT GY, HRD, VF-XLN, DISS BLK SH IP, SLTY

LS- LT TN, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU, TR
IMBED FOSS FRAGS, NO FLO, NO VIS POR

LS- CRM, LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO
SUB-SUCRO MTRX IP, TR FOSS FRAGS, NO FLO, NO VIS POR

CN

CN

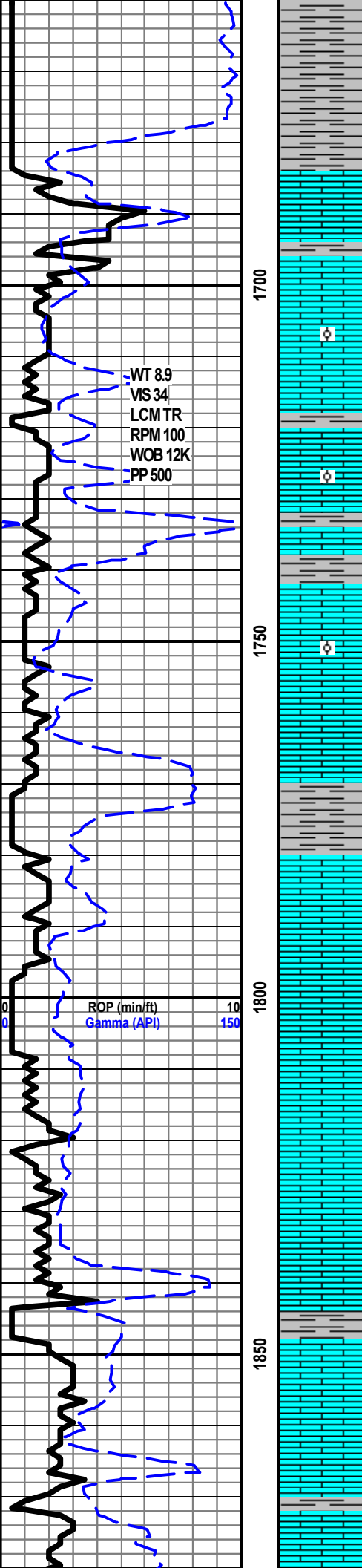
CN

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LANSING 1685' (-387')

LS- TN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, IMBED SH IP, NO FLO, NO VIS POR

CN

LS- WHT, HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO TR SUB-CHLKY, TR OOL, NO FLO, NO VIS POR

CN

LS- BFF LT GY, HRD TO BRITT IP, F/VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR OOL, NO FLO, NO VIS POR

CN

LS- BFF LT TN, HRD DNS, F/VF-XLN, SUB-SUCRO MTRX IP, TR OOL, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

CN

LS- CRM TN, HRD DNS, VF-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, NO FLO, NO VIS POR

12:00 A.M. 07/15/18

LS- LT TN, BRITT, MD/F-XLN, GRST, TR OOL, NO FLO, FR INTER-XLN POR THRU TO TR INTER-OOL POR, NS

CN

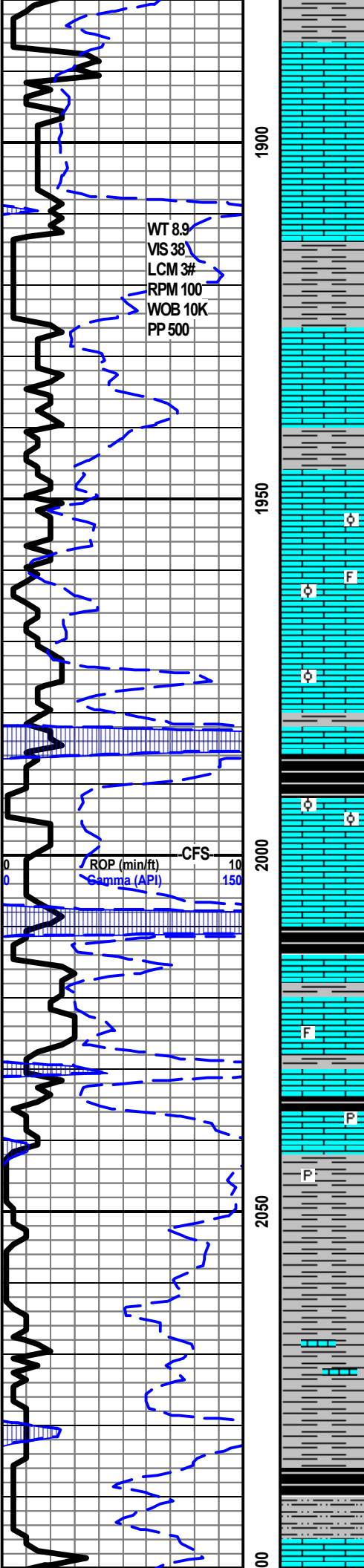
LS- GY, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, NO FLO, NO VIS POR

CN

LS- LT BRN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

LS- LT BRN, A/A

CN



LS- GY, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

CN

LS- CRM DK TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

CN

LS- OFF WHT, BRITT, VF-XLN, SUB-SUCRO MTRX THRU TO TR SUB-CHLKY, TR SFT WHT CHLK, NO FLO, NO VIS POR

CN

LS- TN BRN, HRD, F/VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, TR OOL, TR FINE CALC XLS, NO FLO, TR INTER-XLN POR TO TR INTER-FOSS POR, NS

LS- OFF WHT LT CRM, HRD, VF-XLN, SUB-CHLKY MTRX IP TO SUB-SUCRO MTRX IP, TR IMBED OOL, NO FLO, NO VIS POR

STARK SH 1985' (-687')

CN

LS- TN GY, MOTT, F/VF-XLN, SUCRO MTRX THRU, IMBED OOL IP, TR DLL YEL FLO, NO VIS CUT, V/PR INTER-XLN POR IP, TR BLK RESIDUAL STAIN, NO ODOR

MUD CHECK @ 2000'

WT 8.9
VIS 37
LCM 3#
PV 10
YP 5
PH 10.0
FIL 8.8
CAL 80
CHL, 1,200

CN

LS- TN GY, HRD DNS, MD/VF-XLN, GRST IP TO RE-XLN MTRX IP, IMBED DK GY SH IP, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

BKC 2041' (-743')

SH- DK GY BLK, SFT, BLKY TO SLI GMMY IP, LMY, TR PYR

CN

SH- BLK, FRM, BLKY, SLTY IP TO LMY IP, TR OXIDZ SH, V/F-XLN LS IP

CN

LS- TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

