

JERRY A. SMITH

CERTIFIED PETROLEUM GEOLOGIST

GEOLOGIST'S REPORT

DRILLING TIME and SAMPLE LOG

COMPANY: MCCOY PETROLEUM CORPORATION		ELEVATIONS	
LEASE: FITZGERALD "A" #3-30		K.B. 2858	
FIELD: LETTE SE		D.F. 2856	
LOCATION: 1625' FNL & 1270' FEL		G.L. 2845	
SEC. 30	TWSP. 30	RNG. 31W	Measurements Are All From: KB
COUNTY: HASKELL		STATE: KANSAS	
CONTRACTOR: STERLING DRLG. RIG #5		CASING	
SPUD: 6/6/12	COMP. 6/14/2012	SURFACE: 8 5/8" @ 1819'	
RTD. 4810	LTD. 4804	PRODUCTION: 4 1/2" @ 4806'	
MUD UP: 3500	TYPE MUD: CHEMICAL	ELECTRICAL SURVEYS WEATHERORD: MPD/MDU, MAIMIE, MML	
API No. 15-081-21988		TO: RTD	
SAMPLES SAVED FROM: 4000		TO: RTD	
DRILLING TIME KEPT FROM: 4000		TO: RTD	
SAMPLES EXAMINED FROM: 4000		TO: RTD	
GEOLOGICAL SUPERVISOR FROM: 4160		TO: RTD	
GEOLOGIST ON WELL: JERRY A. SMITH			
FORMATION TOPS	LOG	SAMPLES	
HEEBNER	4168 (-1310)	4174 (-1316)	
LANSING	4236 (-1378)	4240 (-1382)	
"G" ZONE	4518 (-1660)	4524 (-1666)	
STARK	4677 (-1819)	4685 (-1827)	
SWOPE	4684 (-1826)	4690 (-1833)	
HUSHPUCKNEY	4753 (-1895)	4763 (-1905)	

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool. Lime	Chert	Dolomite

LITHOLOGY	DEPTH	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTIONS	REMARKS
		Rate of Penetration Increases		
				GAS DETECTOR BY STERLING DRLG TOOKE DAQ DST (1) BY TRILOBITE MUD BY MUD-Co S.H.T.'s

1824' 3/4°
4697' 1°

VERT. LOG SCALE: 5" = 100'

4000

20

40

60

80

4100

20

40

60

80

Lm - CRM, FX, CHKY
IN FT. No Vis. P.

Lm - CRM, FX, SCAT
PR INTXN P. NS.
CHKY IN FT.

SH - DK GY.

Lm - CRM, LG GY, FX, Foss
IN FT. DSE.

Lm - LG GY, FX, DSE.

Lm - LG GY, FX,
Foss IN FT. DSE →
SUB - CHKY.

Lm - LG TA, LG GY, FX,
DSE → SUB - CHKY.

SH - DK GY.

Lm - LG GY, FX, DSE.

Lm - AA w/ SCAT LG GY,
OBB, SUP, DSE CNT.

Lm - LG GY, FX, w/ SCAT
CNT - AA.

Lm - AA.

Lm - AA.

SH - M → DK GY, ABD
Lm - AA.

SH - BLK, CARB.

Lm - LG GY, LG TA, FX,
Foss IN FT. DSE.

Lm - LG GY, FX, DSE.

SH - BLK, CARB.

Lm - LG → M GY, FX, DSE.

SH - M → DK GY.

Lm - CRM, LG GY, FX.

MUD @ 4046:
9.0 WT, 46 VIS, 10.0 FILT,
2600 CHLOR, 1.5 # LCM

HEEBNER
4174 (-1316) SMPL
4168 (-1310) LOG

4200

LM - Crm. Lt Gy. FX. Foss. No Vis φ.
DSE → SUB-CHKY.

LM - AA.

LM - Lt M Gy. FX. DSE.
w/ ABD. M Gy. Gy.
GRN SH.

SH - AA. w/ Scat M Gy.
FX. DSE LM.

LM - Lt Gy. Gy. - TN. FX.
Foss IN PT. DSE →
SUB-CHKY.

LM - Gy. - TN. FX. Foss.
DSE → SUB-CHKY.

SH - M Gy. Gy. - GRN. w/
Scat LM - Gy. FX.
DSE.

LM - Lt - M Gy. FX.
DSE. Foss IN PT.

LM - AA.

LM - Lt TN. FX. DSE.
CHKY. Scat M Gy.
OPQ, SHP, DSE CNT.

LM - Scat CNT - AA.

LM - Lt TN. Lt Gy. FX.
DSE → SUB-CHKY.
w/ Scat CNT - AA.

SH - M Gy.

LM - Crm. FX. DSE.
No Vis φ. w/ Scat
CNT - AA.

LM - Crm. Lt TN. Lt Gy.
FX. DSE → SUB-CHKY.

LM - AA. w/ Scat CNT -
AA.

SH - DR Gy.

LM - Crm. FX. CHKY.

LM - Crm. Lt Gy. FX.
SPSLY Foss. DSE →
SUB-CHKY. Scat M Gy.
OPQ, SHP, DSE CNT.

LM - AA.

LM - AA. No Vis φ.

LM - AA.

LM - AA.

20

40

60

80

4300

20

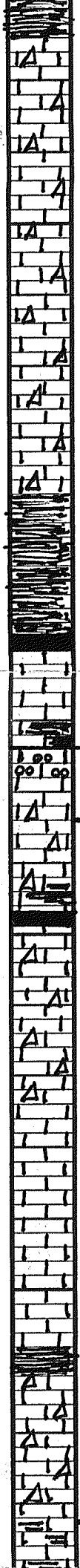
40

60

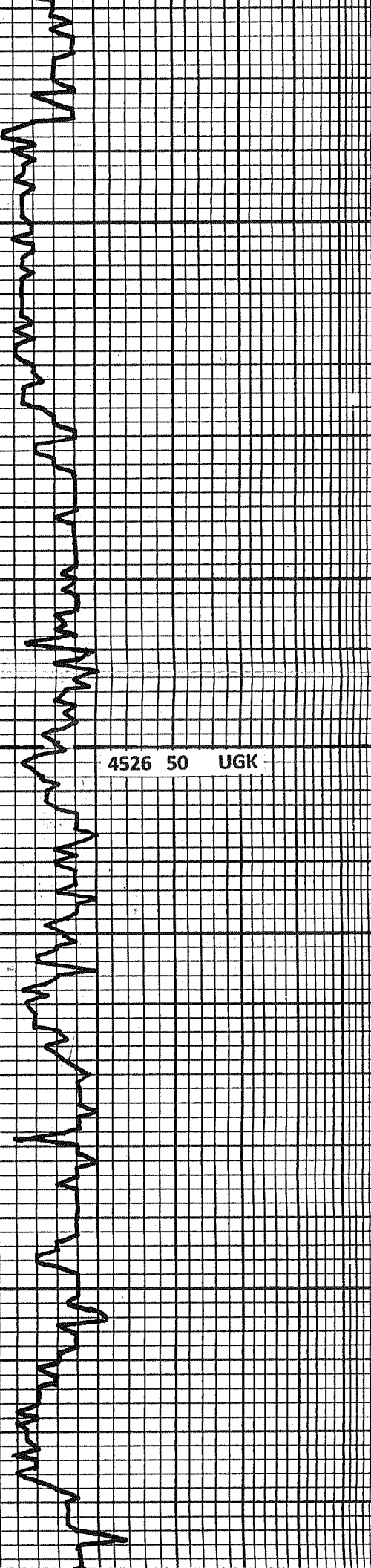
80

4400

LANSING
4240 (-1382) SMPL
4236 (-1378) LOG



20
40
60
80
4500
20
40
60
80
4600
20



4526 50 UGK

LM - LT - M Gy Gy - TA.
FX. DSE.

LM - AA w/ ABD Gy SH.

LM - LT Gy, LT TA, FX.
CHKY. No Vis ϕ .

LM - AA w/ M Gy, Opa,
SH, DSE CNT.

CHKY LM - AA. CHKY.

CHKY LM - AA. CHKY.

LM - Gy - TA, FX. DSE -
SUB - CHKY. w/ LT - M
Gy, Opa, SH, DSE CNT.

LM - AA. Inc in SH.

ABD. M Gy, GRN, DR RD
SH.

SH - BLK, CARB.

LM - M Gy, FX. DSE.
SPSLY FOSS.

LM - GRN, LT Gy, LT TA, FX.
DSE. w/ LT - M Gy, Opa,
SH, DSE. CNT. No Vis ϕ .
No TO. WK OOR.

LM - GRN, LT - M Gy, FX.
DSE. SCAT CNT -
M Gy, Opa, SH, DSE.
LM & SCAT CNT - AA.
SH - BLK, CARB.
LM & SCAT CNT - AA.

LM - GRN, LT Gy, LT
TA, FX. FOSS IN PH. DSE.
SCAT PR VGY ϕ . NS.

LM - GRN, LT Gy, LT TA.
FX. FOSS IN PH. DSE.

LM - AA.

LM - GRN, LT TA, FX.
FOSS. DSE - SUB -
CHKY.

LM - AA.

LM - GRN, CHKY w/ LM -
LT - M Gy, FX. DSE.

LM - AA. No Vis ϕ . TA.
M Gy, Opa, SH, DSE
CNT.

LM - GRN, CHKY w/ LM - LT -
M Gy, FX. DSE. No
Vis ϕ . NS.

LM - AA. No Vis ϕ . NS.

LM - AA w/ ABD Gy,
GRN, RED SH.

"G" ZONE
4524 (-1666) SMP
4518 (-1660) LOG

MUD @ 4553:
9.0 WT, 47 VIS, 8.8 FILT,
1600 CHLOR, 1 # LCM

PULL SHORT TRIP @ 4577'

LM - LT → M BY GY →
M → DK GY DSE. SCATT
M BY SH.

LM & SCATT SH - AA.

LM & SCATT SH - AA.

LM - CM, CNKY → LM →
M → DK GY GY - TH. FX.
DSE.

SH - BLK, CARB.

D
S
T
#1
4690 65 UGK
4697 150+ UGK
4702 100 UGK

LM - LT → M BY CNKY
w/ GP JUMP Q. STR
DOR. GP SHO GAS & LT

LM - LT → M BY TH. FX. CNKY
EXCEL. COND. Q. V. W/ G.
FREE DOR. NO VIS SHO.
ALL G. BARREN.

LM - LT → M BY TH. FX. DSE.
w/ SCATT M, SUB - CNKY
LM.

LM - LT → M → DK GY DSE
GY - TH. FX. DSE. w/ SCATT
M, CNKY LM.

4730 100 UGK

LM - DK GY GY - TH. CNKY
SP. V. COND. NO DOR.
NO SHOW

LM - M → DK GY TH. DSE
NO VIS Q. w/ LM - M
CNKY → 27 GY SUB -
CNKY.

LM - LT → M → DK GY TH.
DSE.

4765 130 UGK

SH - BLK, CARB.

LM - M → V CNKY → LM →
DK GY TH. FX. DSE. NO.

LM - LT → M BY TH. FX. DSE
→ SUB - CNKY. w/ SCATT
M, SET, CNKY LM.

SH - M → DK GY.

SH - DK GY, GY - GN. SURY
IN PT.

SH - DK GY, GY - GN. SURY
IN PT.

SH - AA. SURY IN PT.

STARK
4685 (-1827) SMPL
4677 (-1819) LOG

SWOPE
4690 (-1832) SMPL
4684 (-1826) LOG

PIPE STRAP @ 4697'
4705.40 BOARD
4702.14 STRAP
3.26 SHORT

MUD @ 4697:
9.1 WT, 50 VIS, 10.4 FILT,
1500 CHLOR, 1# LCM

HUSHPUCKNEY
4763 (-1905) SMPL
4753 (-1895) LOG

TOTAL DEPTH
4810 (-1952) ROTARY
4804 (-1946) LOG

DST #1: 4672-97
30-60-60-90

IF: BOB IN 7 MINS.
ISI: 2 1/2" → 1/2"
FF: BOB IN 4 MINS.
FSI: 2" → WK SURF. BLO

RECOVERED:
70% 20% 100% 0% 00% M

4700

4800

40
60
80
20
40
60
80
20
40

LITHOLOGY	4900	60 80		70' GM (10% G, 90% M TR. OIL) 240' G & OCM (20% G, 5% O, 75% M) No WATER SIP'S: 839-844# FP'S: 36-84/101-132# HP'S: 2321-2261# BHT: 121° F		
				5" 10" 15" 20" 25" DRILLING TIME MINUTES/FOOT ← Rate of Penetration Increases	SAMPLE DESCRIPTIONS	REMARKS

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