

Marc A. Downing Consulting Petroleum Geologist		Geologic Report Drilling Time and Sample Log			
Operator Mikol Oil LLC				Elevation KB 2155 DF 2153 GL 2147	
Lease Miller		No. 1-14			
API # 15-051-26746-0000				Casing Record Surface 8 5/8" @ 222' Production 5 1/2" @ 3764'	
Field Wildcat					
Location 1597' FSL & 1140' FWL				Electrical Surveys CNDL, DIL, MEL, Sonic	
Sec. 14	Twp. 12s	Rge. 17w			
County Ellis		State Kansas			
Formation	Sample tops	Log Tops	Datum	Struct Comp	
Top Anhydrite	1346	1344	+811	-11	
Base Anhydrite	1380	1379	+776	NA	
Topeka	3116	3116	-961	NA	
Heebner	3357	3357	-1202	-1	
Toronto	3379	3378	-1223	FL	
LKC	3402	3403	-1248	-3	
BKC	3636	3636	-1481	+1	
Arbuckle	3710	3710	-1555	+103	
Total Depth	3765	3765	-1610		
Reference Well For Structural Comparison Phillips & Hanson					
Miller #1		SW NE SW		Sec. 14-12ss-17w	

LEGEND

Anhydrite

Salt

Sandstone

Shale

Carb sh

Limestone

Oil Lime

Chert

Dolomite

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases

5" 10" 15"

DEPTH

3400

30

3100

32

3200

33

3300

34

3400

35

3500

36

3700

38

39

HEEBNER

3357(1202)

Tarrant

3379(1224)

LKC

-3402(1247)

CFS

CFS

CFS

CFS

CFS

CFS

Topoka

3114(941)

BKC

3636(1481)

Arbuckle

3710(1555)

LTD

3745(1616)

LTD

3745(1616)

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

Sh: grey

Ls: tan w/ some wht.
Fm: ind. xln, seat
foss. pred, NS

Ls: wht, fawn seat
int. xln, mostly chky,
sh: dk grey

Sh: grey

Ls: grey - tan, fawn xln
pred & dms.

Ls: wht, fawn, sub
xln, chky. Trng

slightly mtd w/ depth.
seat dk grey chnta,
All NS.

Sh: Black Carb

Sh: grey

Ls: wht, vfn-mic xln,
pred & dms, All NS.

Ls: mostly AIA, trng
slightly foss.

Sh: grey

Ls: tan - tan, fawn, pred

Sh: Black Carb

Sh: grey

Ls: wht, fawn, ind xln,
seat smil vngs, chky
in pred, All NS.

Sh: grey

Ls: wht, fawn, sub
xln - chky, barren.

Ls: wht, fawn - ind xln,
pred & dms, seat shp
wht chnta, All NS.

Sh: Black Carb

Sh: grey

Ls: tan - wht, ind xln,
mostly pred. 1-2 rx w/
hug str in pr vngs, no
dms.

Sh: grey

Ls: tan, ind xln, vngs, fr
int. xln, smil vngs, fr
seat shp, fr sfo, fr dms.

Sh: grey

Ls: wht, fawn, ind xln,
mostly pred & dms,
All NS.

Sh: grey

Ls: wht, fawn, ind xln,
pred & dms, NS.

Sh: Black Carb

Sh: grey

Ls: wht - tan, ind xln,
mostly pred & barren.
1-2 rx w/ fr str & sfo
in fr vngs, no dms.

Sh: grey

Ls: tan - wht, fawn, ind xln,
pred & dms, NS.

Sh: grey

Ls: wht, fawn, ind xln,
pred & dms, NS.

Sh: Black Carb

Sh: grey

Ls: wht - tan, ind xln,
mostly pred & barren.
1-2 rx w/ fr str & sfo
in fr vngs, no dms.

Sh: grey

Ls: tan - wht, fawn, ind xln,
pred & dms, NS.

Sh: Black Carb

Sh: grey

Ls: wht - tan, ind xln,
mostly pred & barren.
1-2 rx w/ fr str & sfo
in fr vngs, no dms.

Sh: grey

Ls: tan - wht, fawn, ind xln,
pred & dms, NS.

Sh: Black Carb

Sh: grey

Ls: wht - tan, ind xln,
mostly pred & barren.
1-2 rx w/ fr str & sfo
in fr vngs, no dms.

Sh: grey

Ls: tan - wht, fawn, ind xln,
pred & dms, NS.

Sh: Black Carb

Sh: grey

Ls: wht - tan, ind x