Marc A. Downing

Consulting Petroleum Geologist

Geologic Report

Drilling Time and Sample Log

Operator **Eternity Exploration, LLC**

Lease **Younkin** No. **1-17**

API # **15-109-21571-0000**

Field **Wildcat**

Location **1103' FNL & 1631' FEL**

Sec. **11** Twp. **14s** Rge. **34w**

County **Logan** State **Kansas**

Elevation

KB **2890**

DF **2888**

GL **2883**

Casing Record

Surface

8 5/8" @ 230'

Production

None

Electrical Surveys

CNDL, DIL

MEL, Sonic

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	2302	2295	+595	-5
Base Anhydrite	2317	2315	+575	-6
Heebner	3760	3759	-869	-4
Toronto	3773	3774	-884	+2
LKC	3808	3808	-918	-4
Stark	4069	4070	--1180	-22
BKC	4148	4146	-1256	-30
Marmaton	4194	419.3	-1303	-30
Pawnee	4292	4292	-1402	-40
Fort Scott	4354	4351	-1461	-42
Cherokee Shale	4380	4379	-1489	-42
Johnson Zone	4423	4422	-1532	-40
MorrowSh	4483	4482	--1592	-47
Mississippi	4572	4571	-1681	-99
Total Depth	4635	4628 (fill)	-1745	

Reference Well For Structural Comparison **Trans-Pacific Oil - Younkin "D" #1-1**

1074' FSL & 842' FEL, Sec. 1-14s-34w

Drilling Contractor	**STP Drilling, Rig #1**		
Commenced	**8-5-19**	Completed	**8-12-19**
Samples Saved From	**3700**	To	**RTD**
Drilling Time Kept From	**3600**	To	**RTD**
Samples Examined From	**3700**	To	**RTD**
Geological Supervision From	**3700**	To	**RTD**

Summary and Recommendations

The Younkin #1-77 ran slightly structurally low to the nearest dry holes the upper LKC, but significantly thickened throughout the LKC and bel the BKC. No significant shows were encountered throughout the well ar Morrow sand was present.

Due to structural position, lack of sample shows, and log evaluation, it w decided by all concerned parties to plug and abandon the test hole.

Respectfully Submitted,

Marc A. Downing

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ROCK TYPES

▨	sdy lmst	🟩	shale, grn	■	Carbon Sh
▨	Lmst fw7>	▨	shale, gry	🟥	shale, red

ACCESSORIES

MINERAL
- ▲ Chert, dark
- ᔓ Glauconite
- △ Chert White

STRINGER
- 🟪 Limestone
- ⋯ Sandstone
- — green shale

OTHER SYMBOLS

OIL SHOWS
- ● Even Stn
- ● Spotted Stn 50 - 75 %
- ◑ Spotted Stn 25 - 50 %
- ○ Spotted Stn 1 - 25 %
- ○ Questionable Stn
- D Dead Oil Stn
- ■ Fluorescence

DST
- ▦ DST Int
- ▦ DST alt
- ▦ Core
- ‖ tail pipe

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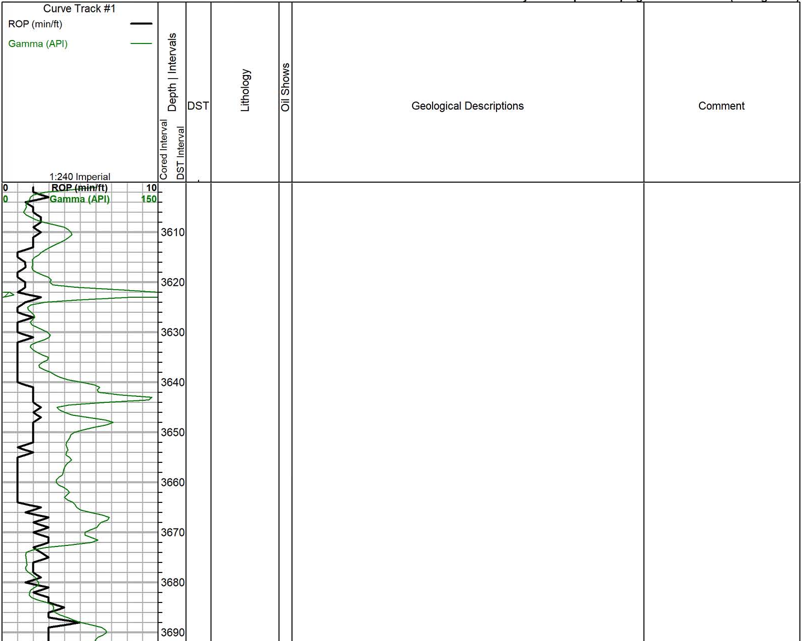
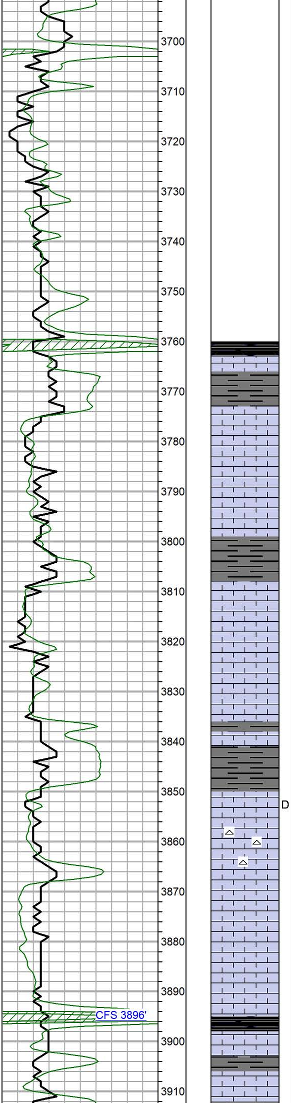




Heebner 3760 (-870)

Sh: Black Carb

Sh: lt gry

Toronto 3773 (-883)

NOTE:
Gamma Ray has
NOT been shifted

LS: wht, fn-vfn xln, chlky w/ NS, no od. Trng pr por and dns, vfn xln, suc in prt. Few scat frag foss, totally barren.

Sh: gry w/ brn

LKC 3808 (-918)

LS: wht, fn-vfn xln, v chlky w/ few subxln rx. Totally barren w/ no od.

LS: wht, fn xln, trng v dns w/ no vis por. All NS, no od.

Sh: drk gry

Sh: gry w/ brn

LS: wht, md xln, foss. Scat fr int foss por w/ few sml vugs, totally barren, no od. 1-2 rx w/ poor dead edge stn, NSFO.

Vis: 56 Wt: 8.8

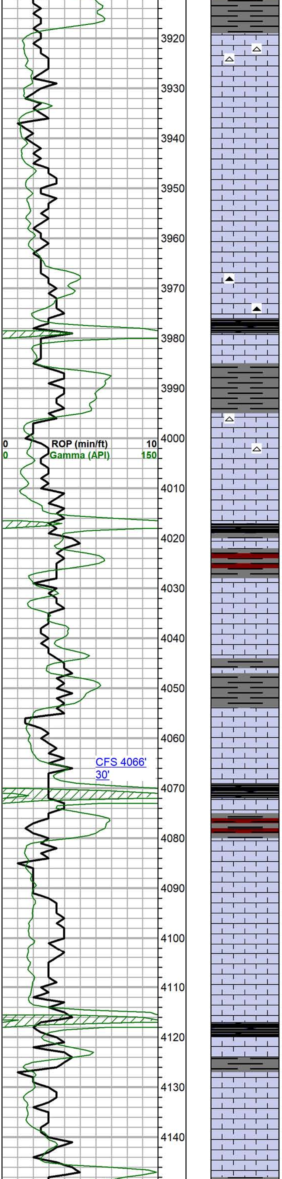
LS: wht, fn-md xln, foss in prt. Mostly pr por and dns, scat shp wht foss cht. All NS.

LS: wht, md xln, foss in prt. Scat intxln and int foss por, fr amt subxln-chlky. Totally barren, no od.

Sh: Black Carb

Sh: gry

LS: wht, md xln, sml-md frag foss. Mostly pr por and dns, few subxln rx. Totally barren, no od.



LS: wht, md xln, ool w/ scat sml frag foss. Fr intxln por, subxln-chlky in prt. Totally barren, no od. Few pcs lt tan-wht cht.

LS: wht, md xln. Few ool rx, trng mostly dolomitic in prt. Scat fr-gd intxln por, many subxln-chlky rx. All totally barren, no od.

LS: wht, fn-md xln, dolomitic in prt, scat foss and ool. Mostly pr por and dns, few subxln rx. NS.

LS: much ala, inc amt subxln-chlky rx.

LS: wht, md xln, suc/dolomitic. Mostly pr por and dns, few subxln rx ala. 1-2 pcs blk cht, all NS.

Sh: Black Carb

Sh: lt gry

LS: wht, fn-md xln, suc/dolomitic in prt w/ scat foss. Some fr intxln and pp por, mostly subxln-chlky. Totally barren, no od. Few pcs shp wht cht.

LS: wht, trng v dns w/ no vis por.

Sh: drk gry

Sh: gry w/ brn

LS: wht, fn xln, some md xln. Few foss, mostly dns w/ pr por. Scat chlky rx, all NS, no od.

Sh: lt gry

LS: wht, ool. Fr ooc por, totally barren, no od. Trng v pr por and dns.

Stark 4069 (-1179)

Sh: Black Carb

Sh: lt gry w/ brn

LS: wht, fn-md xln, foss in prt. Scat int foss and vug por, many subxln-chlky rx. Totally barren, no od.

LS: wht, fn-md xln, no vis por and dns. Few scat foss, totally barren.

LS: mostly ala, few suc rx. Some trng subxln w/ depth, all NS, no od.

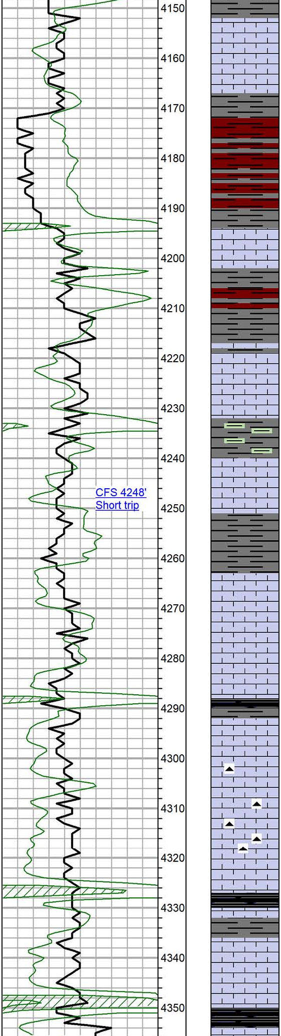
Sh: Black Carb

Sh: lt gry

LS: wht, fn-vfn xln, dns. Few subxln rx, all NS.

LS: mostly ala

BKC 4148 (-1258)



Sh: gry

LS: tan-brn, fn xln, v dns. NS.

LS: some ala w/ fr amt subxln rx. NS, no od.

Sh: gry

Sh: brn-red, silty, some gry

Marmaton 4194 (-1304)

LS: wht, fn-md xln, pr por and dns, NS.

Sh: gry w/ scat brn

LS: wht, fn-md xln. Many chlky and subxln rx w/ scat dns rx. Totally barren, no od.

Sh: gry w/ lt grn

LS: wht-tan, some brn. fn-vfn xln, and dns. Trng subxln-chlky w/ depth. All totally barren, no od.

Vis: 51 Wt: 9.0

Sh: gry

LS: wht, fn-md xln, few sml foss, subxln in prt. Mostly pr por and dns, all NS, no od.

LS: wht-lt tan, some ala. Mostly dns w/ pr por, all totally barren, no od.

Sh: drk gry w/ some black

Pawnee 4292 (-1402)

LS: wht-lt tan, fn-md xln, few subxln rx, mostly dns. Totally barren, no od.

LS: trng gry-tan, fn xln, v dns w/ no vis por. Totally barren, no od. Few pcs lt gry shp cht. Few subxln rx.

LS: much ala w/ inc amt wht subxln rx. Fr-much gry shp cht, some trng blk, foss in prt.

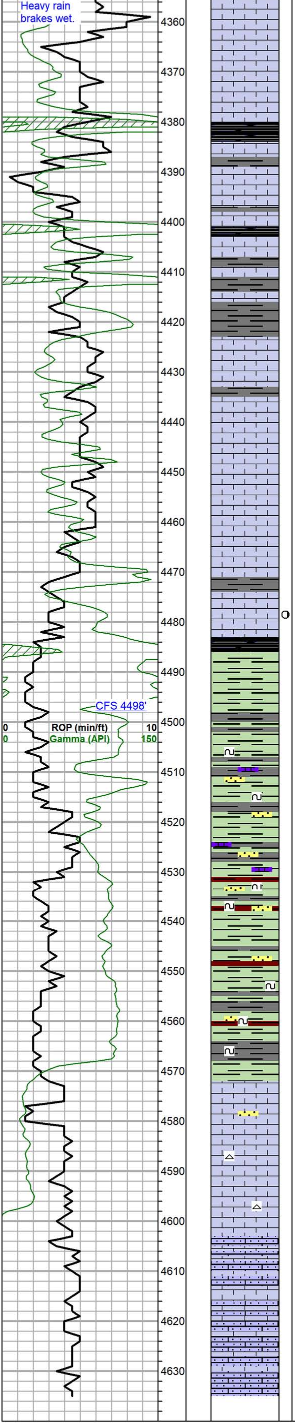
Sh: Black Carb

Sh: Black Carb

Myrick Station 4336 (-1446)

LS: wht, fn-md xln, foss in prt. Scat subxln-chlky rx, few w/ pr-fr intxln por. All NS, no od.

Fort Scott 4354 (-1464)



LS: wht, fn xln, dns. Trng brn, totally ool, no vis por and v dns. Totally barren, no od.

LS: wht w/ tan-brn, less ool than above, few sml-md foss. Few rx w/ intxln por, mostly subxln-chlky. Totally barren, no od.

Cherokee Sh 4380 (-1490)

Sh: Black Carb

LS: wht, fn-vfn xln, v chlky, totally barren, no od. Trng dns w/ pr por.

Sh: Black Carb

LS: tan-wht, fn-md xln, few sml foss. Mostly dns.

Sh: gry

LS: mostly ala

Johnson Zone 4423 (-1533)

LS: wht-tan, fn-md xln. Mostly dns w/ no vis por, scat shp tan foss cht.

LS: wht-tan, fn xln. Many dns rx ala, fr amt subxln-chlky. Cht trng wht w/ foss, all NS, no od.

LS: trng tan-brn, fn xln, mostly v dns w/ no vis por. Scat subxln rx, tan and wht foss cht. NS, no od.

LS: tan, fn-md xln, few sml foss. V dns w/ no vis por, few subxln rx. NS.

LS: mostly ala, few more subxln rx.

Vis: 55 Wt: 9.0

LS: mostly ala. 1 rock w/ fr intxln/foss por, w/ rare spttd FO when broken, vfnt-no od.

Morrow Sh 4483 (-1593)

Sh: lt grn, soft

Sh: grn-lt grn, some tourq. Some sndy, v dirty, w/ few pcs glauc, all NS, no od.

Much sh, lt grn-tourq, some gry. Less sandy than above, fr amt dns LS stringers.

Mostly sh, grn-tourq, some glauc, scat brn and gry. 1-2 pcs sndy and dirty, all NS.

Mostly sh ala, lt grn w/ some tourq, glauc in prt. Rare sandy sh.

Mississippi 4572 (-1682)

LS: wht, vfn-mic xln, v chlky. 1-2 ss clust, v fn grain, sub-ang, well sort. Fr IG por and friable, totally barren, no od.

LS: wht, mostly fn xln, scat sml ool, some lt gry. Scat subxln rx, mostly pr por and dns. Totally barren, no od. Scat tan and wht cht.

LS: wht, md xln, ool in prt, some sltly sndy. Scat subxln rx, mostly v pr por and dns. Totally barren, no od.

LS: mostly ala, increasing amt sndy ls, scat sml ool. All dns w/ pr por, NS, no od.

RTD: 4635 (-1745)