

STEVEN P. MURPHY, P.G.

Petroleum Geologist (KS #228)

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Otis, Kansas 67565
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Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Deines #3
Location: Russell County
License Number: API #15-167-23835-00-00
Spud Date: 11/16/2012
Surface Coordinates: 437' FNL & 1148' FEL (SW NW NE NE)
Section 36-T15S-R14W
Bottom Hole Coordinates: Same as above (vertical well w/minimal deviation)

Region: Kansas
Drilling Completed: 11/22/2012

Ground Elevation (ft): 1860' K.B. Elevation (ft): 1872'
Logged Interval (ft): 2700' To: TD Total Depth (ft): RTD - 3304'
Formation: Topeka thru Arbuckle
Type of Drilling Fluid: Chemical

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Michaelis, Roger dba Aleo Oil Company
Address: 5907 Broadway
Great Bend, KS 67530

GEOLOGIST

Name: Steven P. Murphy, PG
Company: Consulting Petroleum Geologist
Address: 3365 CR 390
Otis, KS 67565

LogTops (Datum)

The open-hole logging was performed by The Perforators (Hays, KS shop), and consisted of a Dual Induction Log & Compensated Neutron-Density Log. The following are formation tops from the logs:

Anhydrite Top 844 (+1028)
 Anhydrite Base 872 (+1000)
 Topeka 2760 (-888)
 Heebner 2990 (-1118)
 Toronto 3006 (-1134)
 Douglas 3022 (-1150)
 Lansing 3058 (-1186)
 Arbuckle (Not visible on log)

DSTs

Drillstem testing was performed by Trilobite Testing (Hays, KS shop). The following are the results of DST #1:

DST #1 3290-3304 (Arbuckle)
 15:45:15:60
 IF: BOB 1 min, surface return
 FF: BOB in min, built to 1"
 Recovery: 307' GIP, 257' Gsy Oil, 378' GMCOW (40%G, 25%O, 30%W, 5%M), 378' OCMW (5%O, 85%W, 10%M), 472' MCW (95%W, 5%M)
 IHP: 1582 FHP: 1509
 IFP: 128-401 ISIP: 1099
 FFP: 428-630 FSIP: 1101
 Oil Gravity - 39
 Chlorides - 27,500 ppm
 BHT - 104 F

COMMENTS




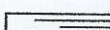
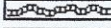
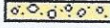

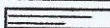
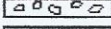

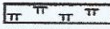





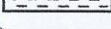

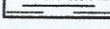
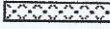
Based on the results of DST #1, it was recommended that 5-1/2" casing be run to produce the Arbuckle.

Prior to abandonment, the LKC "C" (3092-3096) and LKC "J" (3241-3244) should be perforated and tested.

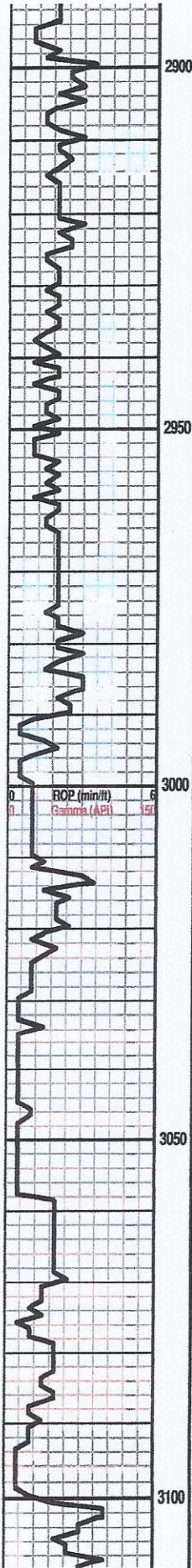
Respectfully submitted,

Steven P. Murphy, PG
 Consulting Petroleum Geologist

ROCK TYPES

	Anhy		Coal		Lmst		Shcol
	Bent		Congl		Meta		Shgy
	Brec		Dol		Mrlst		Siltst
	Cht		Gyp		Salt		Ss
	Clyst		Igne		Shale		Till

Curve Track 1 ROP (min/ft) — Gamma (API) —	Depth	Lithology	Oil Shows	Geological Descriptions	REMARKS
	<p>2700</p> <p>2750</p> <p>2800</p> <p>2850</p>			<p>SH: gry-grn-blk</p> <p>LS: crm-tan-brn, vfxln, dense, foss, chalky, NS</p> <p>LS: as above</p> <p>LS: as above</p> <p>LS: crm-tan-gry, vfxln, dense, foss, sl chalky, NS</p> <p>LS: crm-tan-gry, vfxln, dense, sl chalky, NS</p> <p>LS: as above</p> <p>LS: tan-gry, fxdn, dense, mottled, foss, sl chalky, NS</p> <p>SH: blk-gry-grn</p> <p>LS: crm-brn-gry, fxdn, dense, mottled, foss, NS</p> <p>SH: gry-grn</p> <p>LS: crm-tan-gry, fxdn, dense, mottled, foss, NS</p>	<p>THE FOLLOWING ARE SAMPLE TOPS - FOR LOG TOPS PLEASE REFER TO HEADER SECTION ABOVE:</p> <p>Top Anhydrite 840 (+1030) Base Anhydrite 874 (+996)</p> <p>TOPEKA 2754 (-884)</p>



LS: as above

SH: blk-gry

LS: crm-brn-gry, fxdn, dense, mottled, sl chalky, NS

LS: crm-tan-gry, fxdn, dense, mottled, NS

LS: crm-tan-gry, fxdn, dense, sl mottled, sl foss, NS

LS: as above

LS: tan-brn-gry, fxdn, foss, dense, sl chalky, NS

LS: as above

LS: crm-tan, fxdn, foss, dense, NS

SH: blk, carb

LS: crm-gry, fxdn, dense, chalky, NS

LS: wht-tan, fxdn, ool, pr int-ool por, chalky, NS

SH: gry

SH: gry

SH: gry

LS: wht-tan-gry, fxdn, foss, sl chalky, dense, NS

SH: gry-grn-brn

LS: crm-brn-gry, vfxdn, dense, sl chalky, NS

SH: blk-gry-grn

LS: wht-tan, fxdn, sl oolic, pr-fr inter-ool por, vssfo on brk, spotty str, no odor

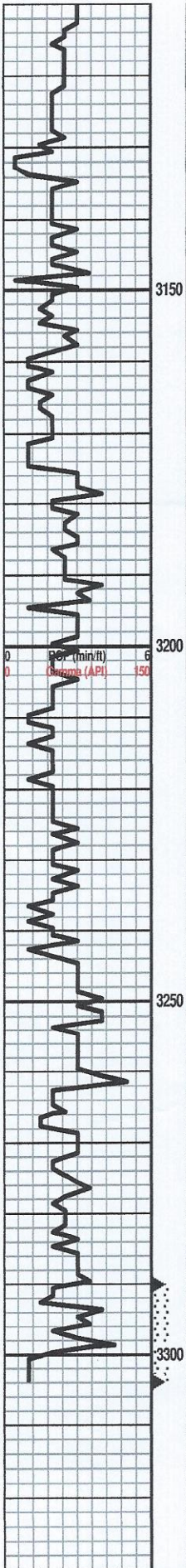
LS: crm-tan, vfxdn, sl mottled, minor chert, dense, NS

HEEBNER 2991 (-1121)

LANSING 3059 (-1189)

PERFORATE BEFORE ABANDONMENT

4



LS: crm-tan-gry, vfxln, dense, sl chalky, NS

LS: as above

LS: crm-gry, vfxln, dense, minor chert, chalky, NS

LS: as above

○ LS: crm-tan, fxl n, oolitic, dense, vssfo on brk, lite stn, fr odor

LS: crm-brn, fxl n, dense, foss, chalky, nsfo, sl stn, sl odor

LS: as above w/dk chert

SH: blk-gry-grm

LS: crm-brn-gry, vfxln, cherty, dense, NS

LS: as above

LS: crm-tan, vfxln, dense, NS

LS: crm-tan-gry, vfxln, dense, NS

⊙ LS: crm-tan, fxl n, oolic, pr moldic por, vssfo on brk, spotty stn, fr odor

PERFORATE BEFORE ABANDONMENT

LS: crm-tan-gry, vfxln, dense, NS

SH: blk-grm sh

LS: wht-tan-gry, vfxln, dense, sl chalky, NS

LS: as above (blk-grm sh)

LS: as above

● DOL: crm-tan, f-mxlm, gd vug & inxln por, gsfo, even sat stn, strong odor

ARBUCKLE 3300 (-1428)

DST #1 3290-3304 (Arbuckle)

15:45:15:60

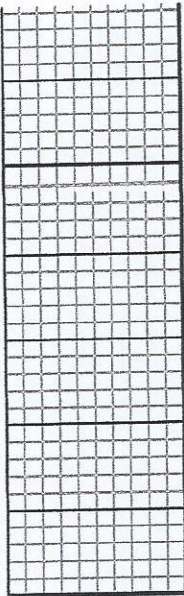
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OCMW (5%O, 85%W, 10%M),



3350

2400

472' MCW (95%W, 5%M)

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