

A.P.I.# 15-137-20616-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
LEASE Esslinger Ranch #1-17
FIELD Wildcat
LOCATION 1330' FSL + 1030' FWL
SEC. 17 TWSP. 35 RGE. 22W
COUNTY Norton STATE Kansas

ELEVATION
KB 2419'
DF 2417'
GL 2414'
Depths Measured From
Log KB Drilling KB

CONTRACTOR WW Drilling Rig #8
SPUD 9-18-12 COMP 9-24-12
SAMPLES SAVED FROM 3300 TO T.O.

CASING
Surface 85970.301'
Production None
ELECTRIC LOGS
Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>E. Tag</u>	<u>0-</u>	<u>0-</u>		
<u>Anhydrite</u>	<u>2031</u>	<u>2031 +</u>	<u>388</u>	<u>+406</u>	<u>+401</u>	<u>+346</u>	
<u>Base Anhydrite</u>	<u>2062</u>	<u>2062 +</u>	<u>357</u>	<u>+379</u>	<u>+372</u>	<u>+318</u>	
<u>Tapoka</u>	<u>3319</u>	<u>3318 -</u>	<u>899</u>		<u>-885</u>	<u>-958</u>	
<u>Heebner</u>	<u>3524</u>	<u>3522 -</u>	<u>1103</u>	<u>-1084</u>	<u>-1078</u>	<u>-1161</u>	
<u>Toronto</u>	<u>3550</u>	<u>3549 -</u>	<u>1130</u>	<u>-1110</u>	<u>-1106</u>	<u>-1186</u>	
<u>Lansing</u>	<u>3567</u>	<u>3565 -</u>	<u>1146</u>	<u>-1224</u>	<u>-1121</u>	<u>-1199</u>	
<u>Base Kansas City</u>	<u>3754</u>	<u>3753 -</u>	<u>1334</u>	<u>-1306</u>	<u>-1308</u>	<u>-1391</u>	
<u>Marmaton</u>	<u>3777</u>	<u>3777 -</u>	<u>1358</u>	<u>-1349</u>	<u>-1340</u>	<u>-1428</u>	
<u>Basal Penn. Sand</u>	<u>3805</u>	<u>3804 -</u>	<u>1385</u>				
<u>Arbuckle</u>	<u>3829</u>	<u>3828 -</u>	<u>1409</u>	<u>-1372</u>	<u>-1363</u>	<u>1444</u>	
<u>Granite</u>	<u>3866</u>	<u>3864 -</u>	<u>1445</u>	<u>-1430</u>	<u>-1407</u>	<u>1505</u>	
<u>Total Depth</u>	<u>3882</u>	<u>3881 -</u>	<u>1462</u>	<u>-1435</u>	<u>-1428</u>	<u>1524</u>	

REFERENCE WELLS

- A Jones, Shelburne, Farmer, Harper #1, SW SW NW Sec. 19-35-22W
- B Lundvall Oil & Gas, Erickson #1, S/2 NE SE Sec. 12-35-23W
- C Baird O. Co. LLC, Esslinger Ranch, Inc. #1-22, 2080' FSL + 2075' FWL
- D Sec. 22-35-22W

REMARKS

This well ran 25 feet lower to 53 feet higher on the Lansing top than the reference wells. Drill stem tests and open hole log indicate no further testing was warranted. The well was plugged and abandoned.


Richard P. Bell
9-24-12


7502

LEGEND


- 

Anhydrite
- 


Salt
- 

Sandstone
- 

Shale
- 

Carb sh
- 

Limestone
- 

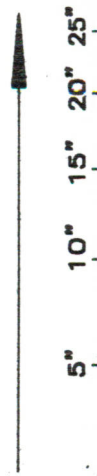
Ool. Lime
- 

Chert
- 

Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



DEPTH

2020

40

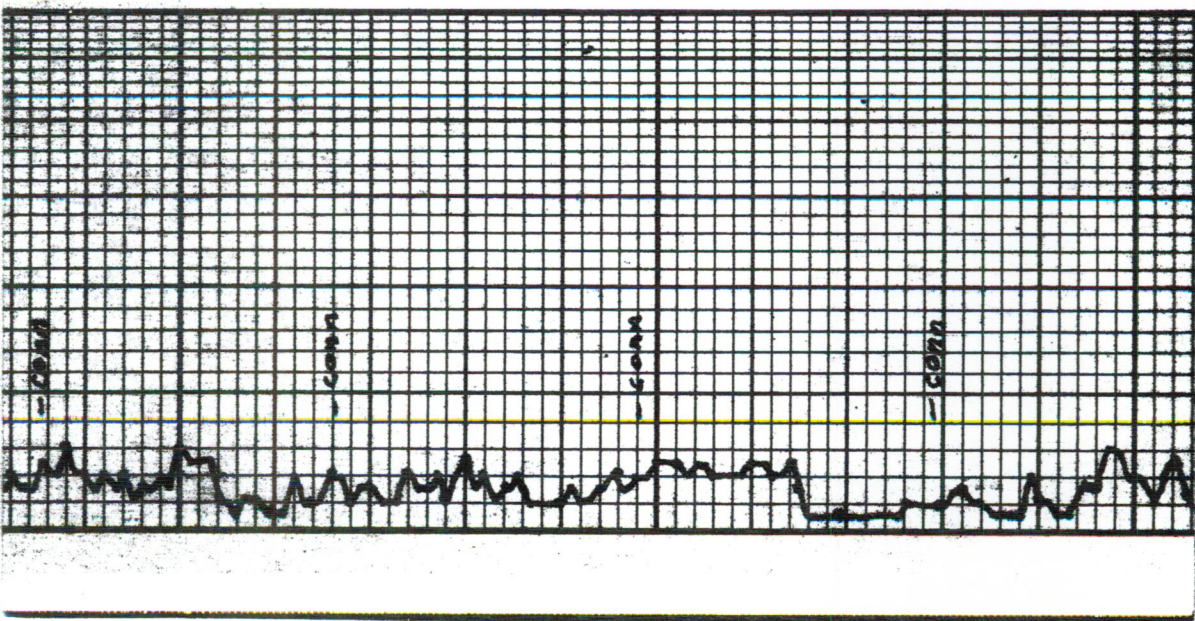
LITHOLOGY

SAMPLE DESCRIPTIONS

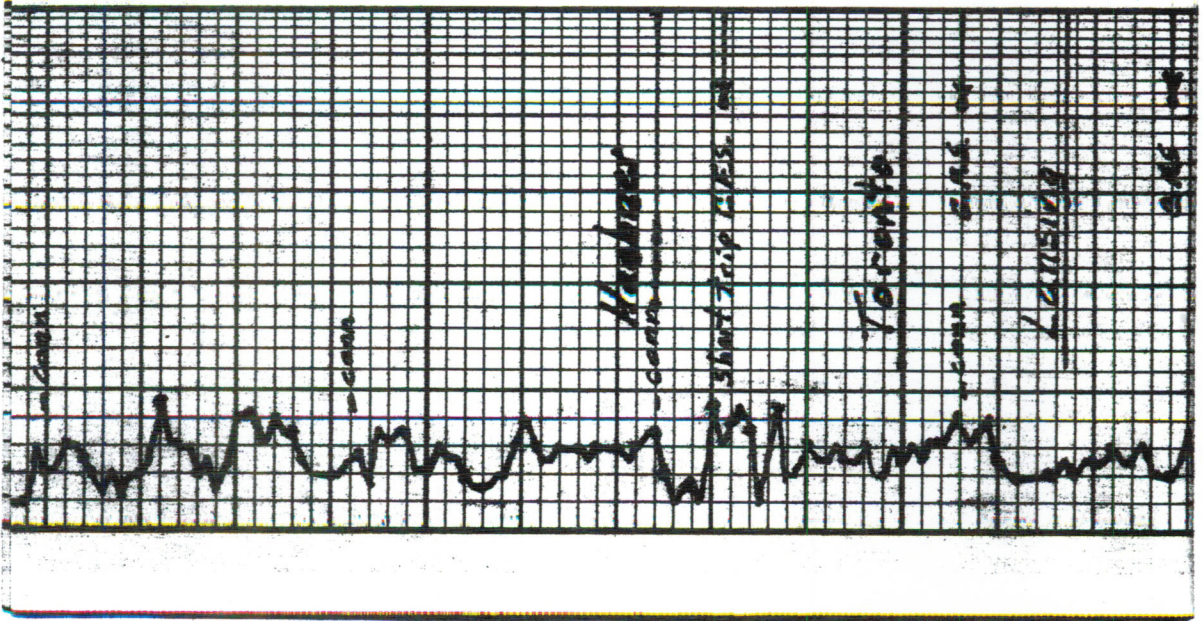
OIL SHOWS

REMARKS

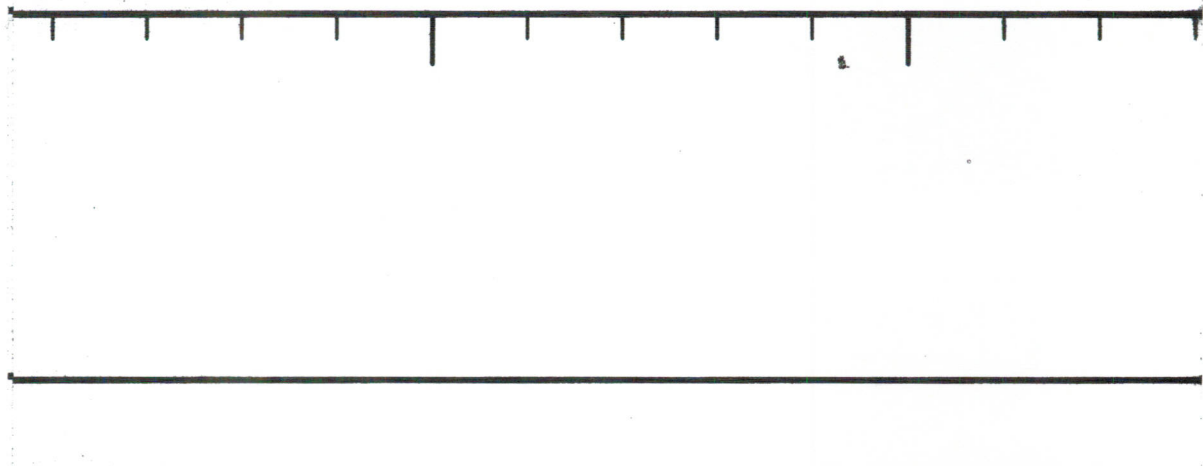
LOG 7710



40	LS: wh-trn sl: chy-fxln dcl pp @ -Ti V9Y @ N.S.O
60	LS: trn-gry tsif das Sh: brn, gry Tr: SS wh-gry v. frn-grn consol. ingran @ N.S.O sh: brn, grn
80	LS: wh-trn sl: chy-fxln dcl pp @ -ingran @ N.S.O Tr: Δ wh
3400	LS: coh-trn. dt. gry fxln Tr. Pr: pp @ N.S.O Sh: brn, gry LS: gry tsif dms
20	LS: wh-trn sl: chy-fxln Tr: pp @ N.S.O LS: wh-trn sl: chy-fxln dcl w/ lot of fess ingran pp @ V9Y @ friable N.S.O
40	LS: ea N.S.O. Tr: SS trn v. frn. gn. consol. ingran @ N.S.O. sh: brn, gry LS: wh-trn chy-fxln Tr: dcl



60	ppp N.S.O. Sh:brn slty, gry, grn LS: gry-fch d/s Tr: BK Carb. sh LS: wh-tn chy-fch Tr ööl ppp N.S.O. Sh:brn slty LS: wh-tn chy-fch sl: ööl Pr. ppp N.S.O.
80	Sh:brn, gry, Tr, grn LS: wh-tn chy-fch ööl ppp. in part p N.S.O.
3500	LS: wh-tn sl: chy-fch Tr. ööl ppp mostly d/s N.S.O.
20	Sh:blk Carb LS: tn-gry fsh d/s
40	Sh:brn, gry Tr: S.S. gry v. fn. ga. concol in gran p N.S.O.
60	LS: wh-tn fch ööl ppp- sl: UGY p N.S.O.
80	Sh:brn, grn LS: wh-tn fch sl: ööl- sub ööl w/ fss. inclus. Pr. ppp N.S.O. No cut LS: wh-tn fch d/s



Trilobite Testing

Incline $\frac{3}{4}$ @ 3640'

DST #1 3616'-3640'
 45-45-45-45
 IF: wk blow incr. to $\frac{1}{2}$ "
 FF: $\frac{1}{8}$ " blow
 Recovery: 130' MW
 70% W, 30% M
 Oil summit tool

Hyd: 1802-1764 #
 F.P.: 10-53 f 55-76 #
 BWP: 1159-1110 #
 BWTmp: 91° F

Board 3651.60
 Strap 3651.57
 Diff. .03

DST #2 3686'-3736'
 30-30-0-0
 IF: wk blow died in 20 min
 Recovery: 1' HOCM
 50% G, 50% M
 Oil in tool
 Hyd: 1881-1848 #

Sh: brn, gry, grn

LS: wk to fch - sh: suc

1 inch @ N.S.O.
 4 by wk - sh: gry

Sh: gry, brn

LS: wk to sh: chy-fch ool

Tr: blk spid Talyd str

Vlt: thick F.G. No odor

LS: gry fslf dns

LS: tn-yel-brn fslf sh: shv

Sh: brn

LS: wk to fch ool pp @ pt.

rainbow S.O. Sand ht. spid

O str. floating F.O. No odor

Sh: brn, mar, gry

LS: wk to chy-suc-fch No

V: 5 @ N.S.O.

Tr: BIK Carb. sh

sh: gry slty, brn slty

LS: wk to chy-fch sh: ool

pp @ N.S.O. 2 wk to

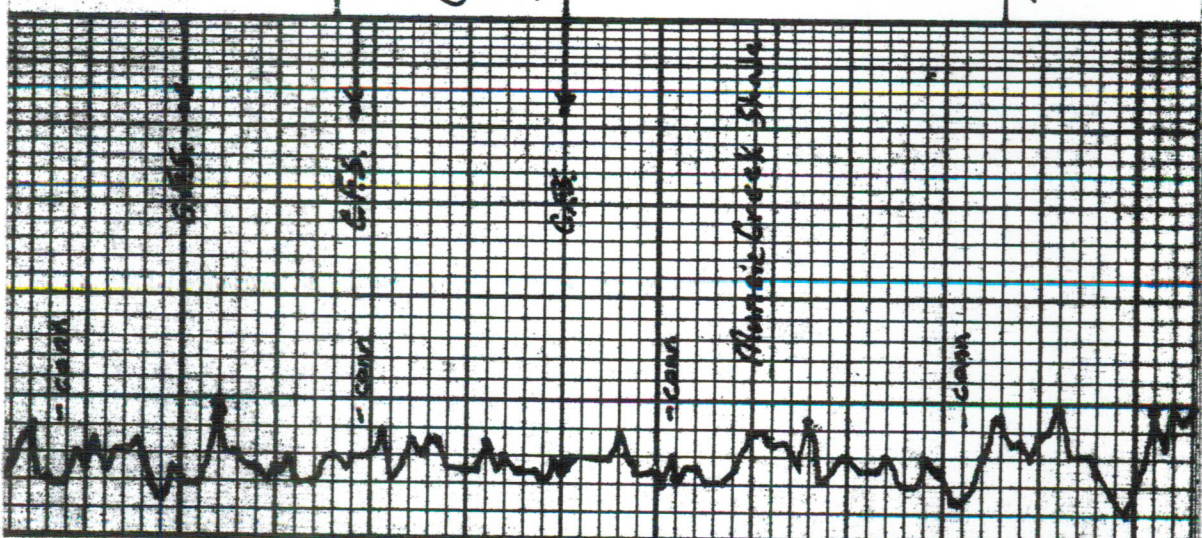
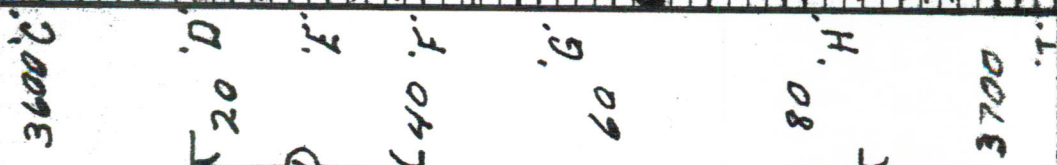
Col. pcs spid ostrn - pp F.O.

? from above

LS: wk to sh: gry chy-fch dns

sh: brn slty - gry sh

LS: wk to sh: gry sh: chy-fch



FT: 31-33W
 BHP: 99#
 BH Temp: 91°F.

sh:brn, gry ls: wh-fn sli: cky-fslf pr. pp @ N.S.O.	sh:brn, gry	ls: wh-fn sli: cky-fslf Tr. oil w/ pass incl. 10 ft. edge 50 pp @ No oil 50 pp @ N.S.O.	ss: brn shly. v. fn. gn coral. jagged @ N.S.O. sh: brn	ls: wh-fn fxlh sub oil dns N.S.O.	ls: wh-fn sli: cky-fslf dns glauc spks N.S.O.	sh: brn sli: cky ls: wh-fn v. cky-fxlh oil 90 pp @ blk asph 'spts ss: cky - frsted. fn. gn. consol and irreg. blk asph spks lot of pyrite Ant. fr. ss: ga. inar sh: brn
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