

API# 15-137-20636-0000

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC
 LEASE Velma Lourey # 1-34
 FIELD Wildcat
 LOCATION 1110' FNL + 2100' FWL
 SEC 34 TWP 35 RGE 22W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2290'
 DF 2288'
 GL 2282'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR W.W. Drilling Rig #12
 SPUD 4/19/13 COMP 4/25/13
 SAMPLES SAVED FROM 3250' TO R.T.D.

CASING
 Surface 8 5/8" @ 220'
 Production 5 1/2" @ 3874'

ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM <i>E-log</i>	A	B	C	D
				●			
<u>Anhydrite</u>	<u>1980</u>	<u>1975</u>	<u>+ 315</u>	<u>+ 319</u>			
<u>Base Anhydrite</u>	<u>2007</u>	<u>2001</u>	<u>+ 289</u>	<u>+ 288</u>			
<u>Topeka</u>	<u>3275</u>	<u>3273</u>	<u>- 983</u>	<u>- 987</u>			
<u>Heebner</u>	<u>3485</u>	<u>3482</u>	<u>- 1192</u>	<u>- 1195</u>			
<u>Toronto</u>	<u>3512</u>	<u>3509</u>	<u>- 1219</u>	<u>- 1220</u>			
<u>Laasing</u>	<u>3528</u>	<u>3525</u>	<u>- 1235</u>	<u>- 1239</u>			
<u>Base Kansas City</u>	<u>3712</u>	<u>3710</u>	<u>- 1420</u>	<u>- 1424</u>			
<u>Marmaton</u>	<u>3750</u>	<u>3747</u>	<u>- 1457</u>				
<u>Arbuckle</u>	<u>3779</u>	<u>3776</u>	<u>- 1486</u>	<u>- 1489</u>			
<u>Granite</u>	<u>3890</u>	<u>3886</u>	<u>- 1596</u>	<u>- 1579</u>			
<u>Total Depth</u>	<u>3905</u>	<u>3901</u>	<u>- 1611</u>	<u>- 1621</u>			

REFERENCE WELLS

A Baird Oil Co Esslinger Ranch, Tract # 1-27, 735' FSL + 2545' FWL Sec 27-35-22

B

C

D

Port Callar @ 1974'

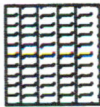




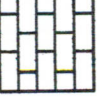
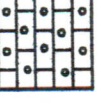
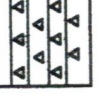

REMARKS



This well ran 4 feet higher on the casing top than the reference well. After reviewing the open hole log it was decided production casing should be cemented to further test the well. These zones should be tested: 3691'-3694', 3672-3674, 3569-3573' and 3555'-3557.

Richard B. Bell
4/26/13

7502

LEGEND

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

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
1960				
80				

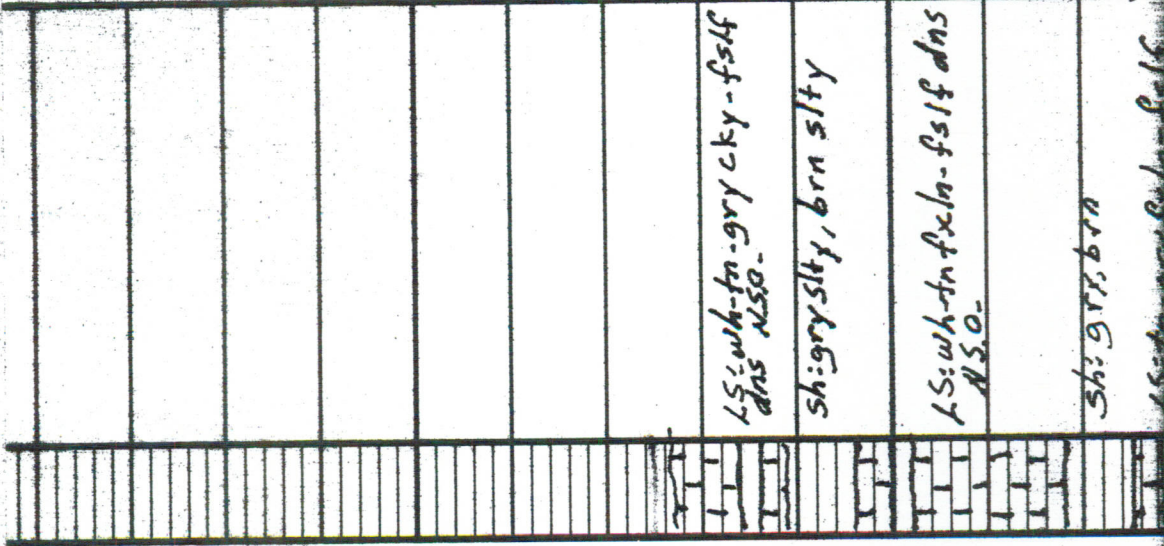
DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



LOG 7710

Samples are lagged
good samples



60

80

3200

20

40

60

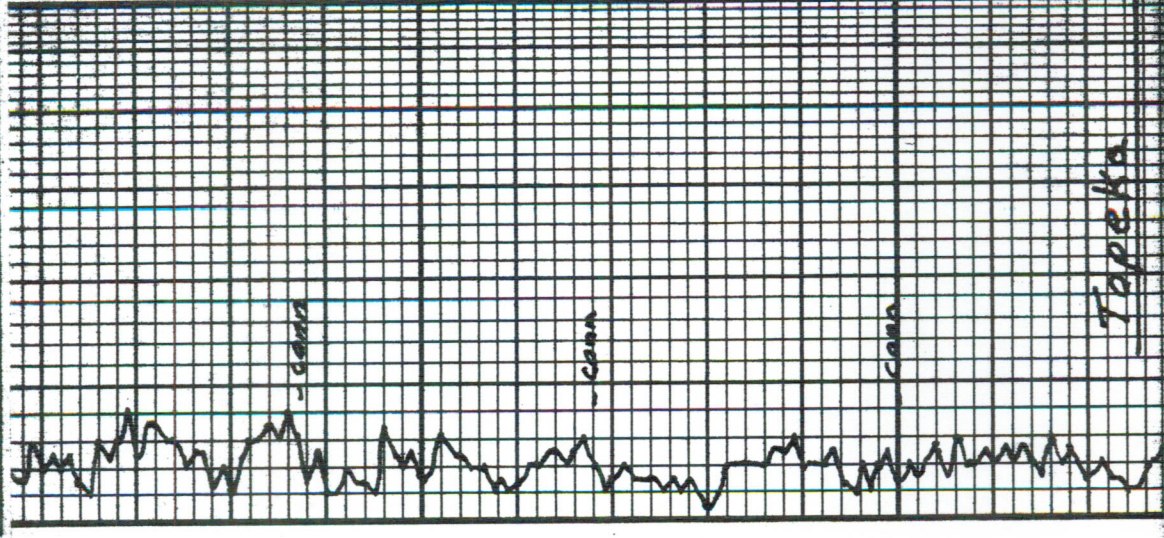
ls: wh-fn grycky - fsif
dms N50-

sh: gry sily, brn sily

ls: wh-fn fxln - fsif dms
N50-

sh: gry, brn

ls: wh-fn grycky - fsif
dms N50-

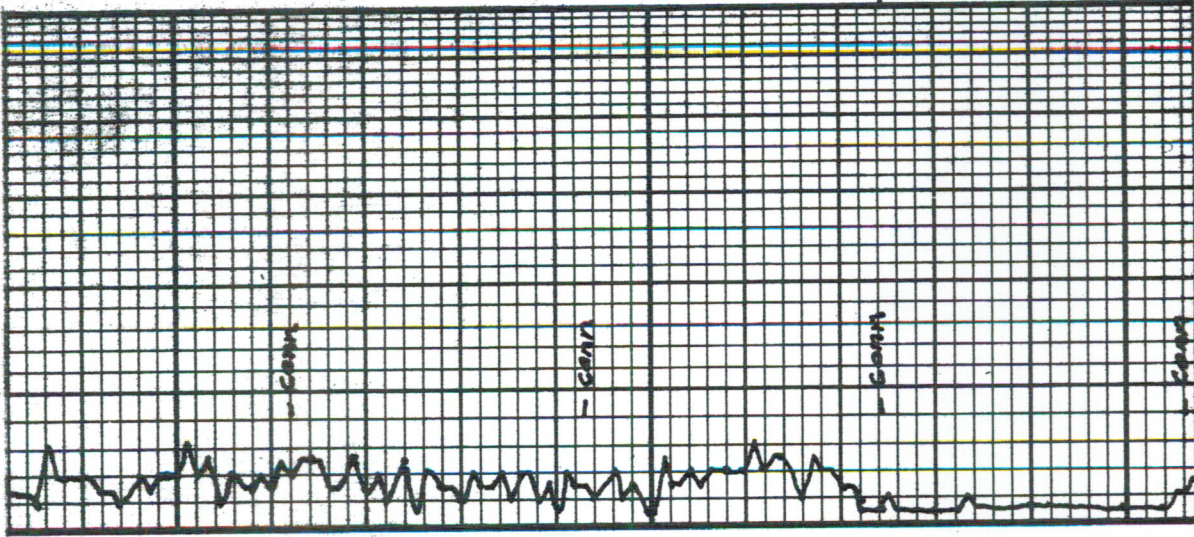


CORN

CORN

CORN

Tape Ka



3300

20

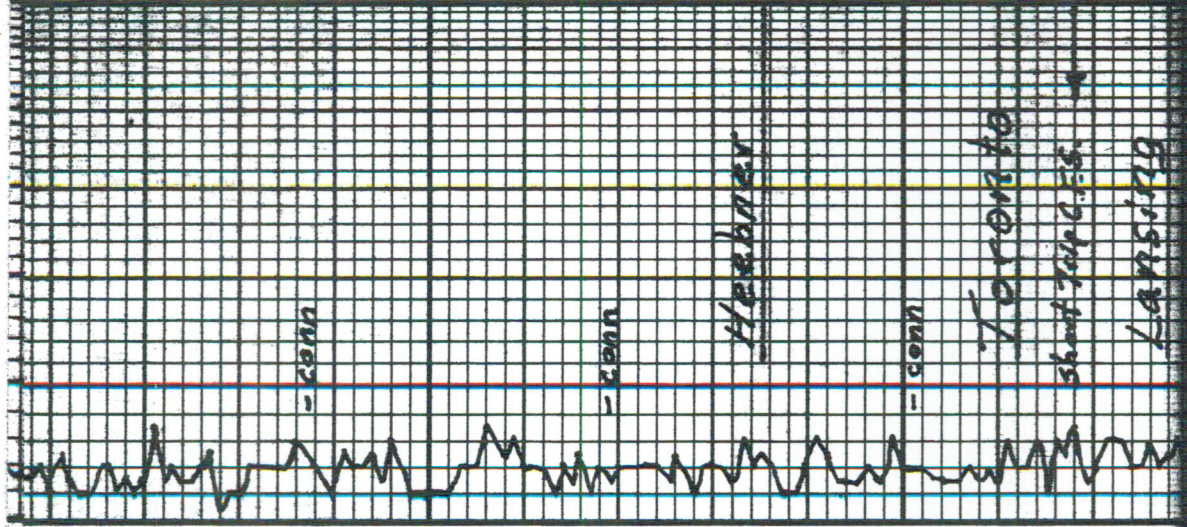
40

60

80

3400

LS: wh-fn fxln Tr. ool N.S.O. Shi: brn, gry	LS: fn-gry fxln ool pp N.S.O. Shi: brn, gry	LS: wh-fn gry cky-fxln das.	LS: wh-fn shi.ool pp N.S.O.	LS: wh-fn v. cky-fxln ool pp N.S.O.	LS: wh-fn. Lt. gry fxln Tr. ool pp N.S.O. Tr. glane spks.	Shi: brn	Shi: brn slty, gry slty Tr. ss. brn v. fn. gn. Consol Ingrax N.S.O.	Shi: brn slty
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20

40

60

80

3500

20

LS: wh-tn sli.cky-faln oöl
ppø N.S.O.

Sh: gry, brn

LS: wh-tn cky-faln oöl
ppø sli. ppx. 5pkø
Tr BIK carb sk

LS: tn-brn fxln dms

LS: wh-tn cky. fxln sli.
friable ppø N.S.O.
Tr 2 wh-tn

Sh: brn slty

LS: wh-tn fch oöl ppø
N.S.O.

LS: wh-tn sli.cky-faln
dms

LS: tn-gry fslf dms

Sh: BIK Carb.

LS: tn fslf dms

Sh: gry slty

Sh: gry slty, brn slty

LS: wh-tn fch. sli. fslf
sli. oöl w/ fcs incl. N.S.O.
ppø N.S.O.

Sh: brn, gry

LS: wh-tn sl.cky-faln

-conn

-conn

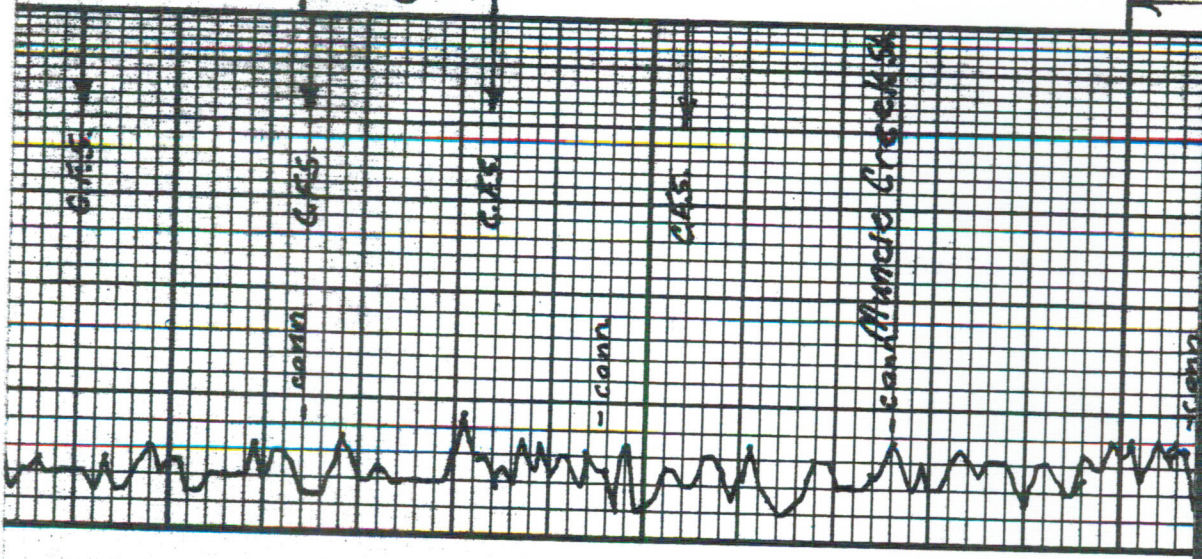
Hebbner

-conn

Toronto

Sheet 74p C.F.S.

Lansing



40
60°C
80
3600
F/F
20
40
H

<p>sp. cut. No odor N.A.T.N.</p>	<p>LS: wh.-tn chy. fash dms sh: brn</p>	<p>sh: brn, gry LS: wh.-tn chy. fash dms sp. cut. No odor N.A.T.N.</p>	<p>LS: wh.-tn chy. fash dms sh: brn, gry LS: wh.-tn chy. fash dms sp. cut. No odor N.A.T.N.</p>	<p>sh: gry, brn</p>	<p>LS: wh.-tn chy. fash dms sh: brn, gry LS: wh.-tn chy. fash dms sp. cut. No odor N.A.T.N.</p>	<p>sh: gry, brn</p>	<p>LS: wh.-tn chy. fash dms sh: brn, gry LS: wh.-tn chy. fash dms sp. cut. No odor N.A.T.N.</p>
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Trilobite Testing

DST #1 3563'-3583'
45-45-45-45
IF: 14" blow
FF: surface blow
Recovery: 68' MO
60% O, 40% M
HYD: 1792-1762 #
FP: 14-23/30-40 #
BNP: 1116-1058 #
BHTemp: 93°F.

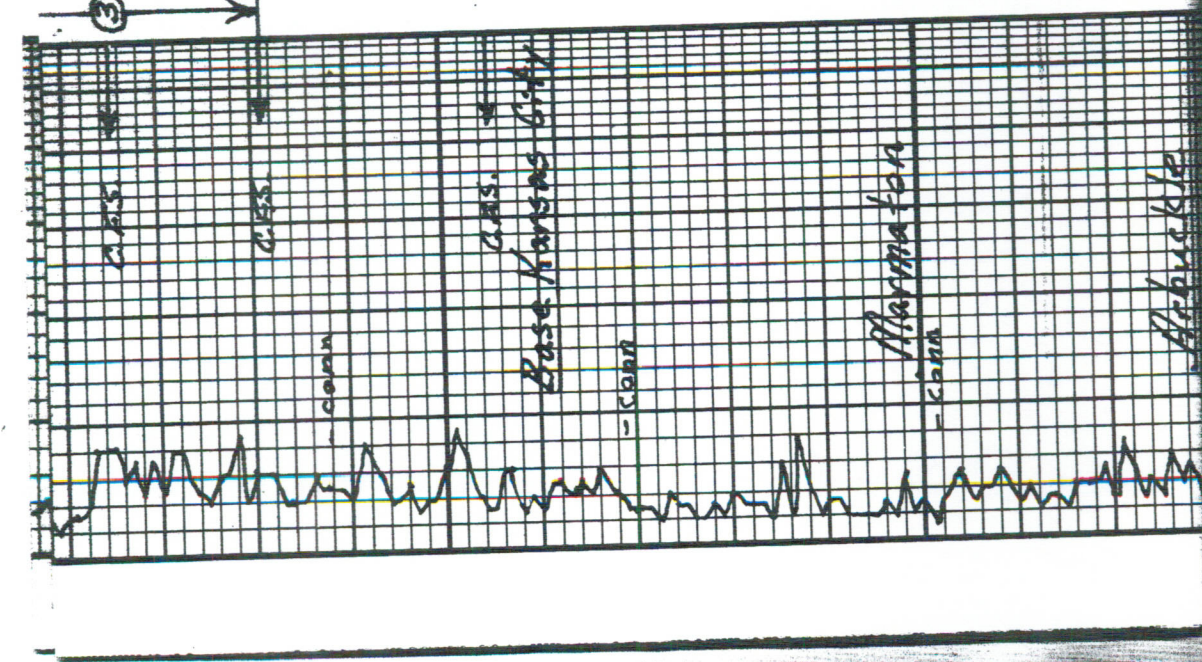
DST #2 3581'-3603'
30-30-30-30
Mud dropped
IF: Surface blow
FF: No blow
Recovery: 174' M'50
1% O, 99% M
HYD: 1907-1707 #
FP: 95-96/96-96 #
BNP: 155-112 #
BHTemp: 88°F.

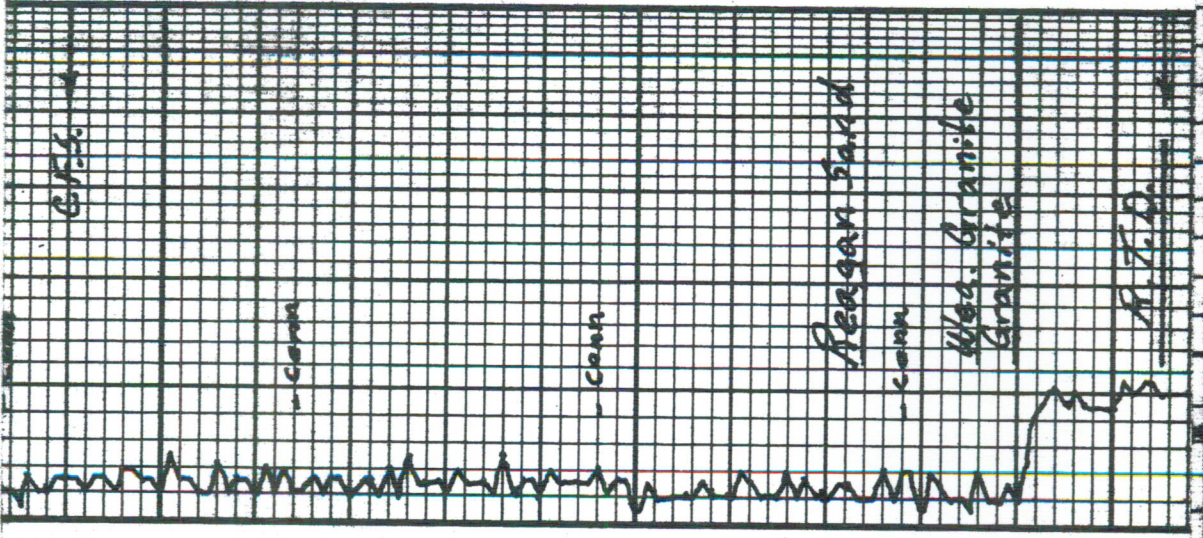
DST #3 3660'-3681'
45-45-0-0
Mud dropped
IF: Surface blow
Recovery: 70' Total

10' MO. 70% W, 30% M
 60' OCM 1070, 90% M
 Hyd: 1878-1782#
 FP: 54-56#
 BHP: 1051#
 BHTemp: 90°F

DST#4 3678'-3705'
 45-45-46-45
 mud dropped
 TF: wk blow incr. to 5"
 ISI: No blow
 FF: wk blow incr. to 2"
 FSI: No blow
 Recovery: 244' Total
 124' OCM 1070, 90% M
 60' O+WCM 270,
 10% W, 88% M
 60' OCW 270, 98% W
 Hyd: 1914-1754#
 FP: 96+H4/117-127#
 BHP: 917-850#
 BHTemp: 93°F

60' I.	LS: wh-tn-feln-fs/ck-fuln No vis N.S.O. sh: brn	LS: wh-tn-feln-fs/fool w/ foss incl. sp. & in part kt. rainbow s. o. pp. f.o. No odor	LS: wh-tn-feln-fs/fool w/ foss incl. kt. o. sat. pp. f.o. ft. odor sh: brn	LS: wh-tn-ck-fuln pp N.S.O.	sh: brn, mar	Tr. ss: v. fn. gn consol In gran N.S.O.	Tr. ls: wh-tn-fuln dns	sh: brn, gry	LS: wh-tn-ya/ck-fuln dns N.S.O. sh: brn slty	LS: wh-tn-ck-fuln sdy pp & Tr. Tary O. sta incr. sdy
80										
3700										
20										
40										
60										
80										





3800
 20
 40
 60
 80
 3900



max in min of N.S.O.
 glauc. spks.
 Dol + Sdy dol a.a.
 Dol: dk-brn fcln - mch
 in min of N.S.O. glauc. spks
 a.a.
 a.a.
 Same Tr Quartz w/ biotite
 spks angular unconsol.
 chr. sli frosted
 Dol: brn fcln - mch in imbed
 glauc. spks R.T. Q+z a.a.
 Dol: tn-brn fcln - mch
 in min of glauc. spks
 R.T. Qtz a.a.
 iacr. Quartz unconsol
 and -sub rnd chr. frust
 N.S.O.
 Qtz, biotite, feldspar
 Quartz, biotite, feldspar

C.F.S.
 Reagan Sand
 Wca. Granite
 Granite
 R.T.D.