

APT# 15-065-24035-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
 LEASE David Worcester Unit #1-13
 FIELD Worcester East
 LOCATION 2630' FNL 41725' FWL
 SEC 13 TWSP 7s RGE 22w
 COUNTY Graham STATE Kansas

ELEVATION
 KB 2165'
 DF 2163'
 GL 2157'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WWD Drilling Rig #12
 SPUD 5-12-14 COMP 5-16-14
 SAMPLES SAVED FROM 3100' TO R.T.D

CASING
 Surface 8 5/8" @ 219'
 Production none
 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>1792</u>	<u>1790</u>	<u>+ 375</u>	<u>+ 373</u>			
<u>Base Anhydrite</u>	<u>1823</u>	<u>1821</u>	<u>+ 344</u>	<u>+ 342</u>			
<u>Topeka</u>	<u>3159</u>	<u>3157</u>	<u>- 992</u>	<u>- 986</u>			
<u>Heebner</u>	<u>3369</u>	<u>3366</u>	<u>- 1201</u>	<u>- 1193</u>			
<u>Toronto</u>	<u>3392</u>	<u>3389</u>	<u>- 1224</u>	<u>- 1215</u>			
<u>Lansing</u>	<u>3409</u>	<u>3406</u>	<u>- 1241</u>	<u>- 1232</u>			
<u>Base Kansas City</u>	<u>3600</u>	<u>3597</u>	<u>- 1432</u>	<u>- 1420</u>			
<u>Arbuckle</u>	<u>3765</u>	<u>3762</u>	<u>- 1597</u>	<u>- 1502</u>			
<u>Total Depth</u>	<u>3795</u>	<u>3793</u>	<u>- 1628</u>	<u>- 1528</u>			

REFERENCE WELLS

A Baird Oil Co., #1-13 Worcester Unit, 2290' FNL + 2500' FWL
 B SEC 13-7s-22w
 C
 D

REMARKS

This well ran 9 feet lower on the Lansing top and 95 feet lower on the Albuckle top than the reference well. Considering the low structural position and the results of the Straddle test it was decided this well should be plugged and abandoned.

Richard B. Bell
5-17-14

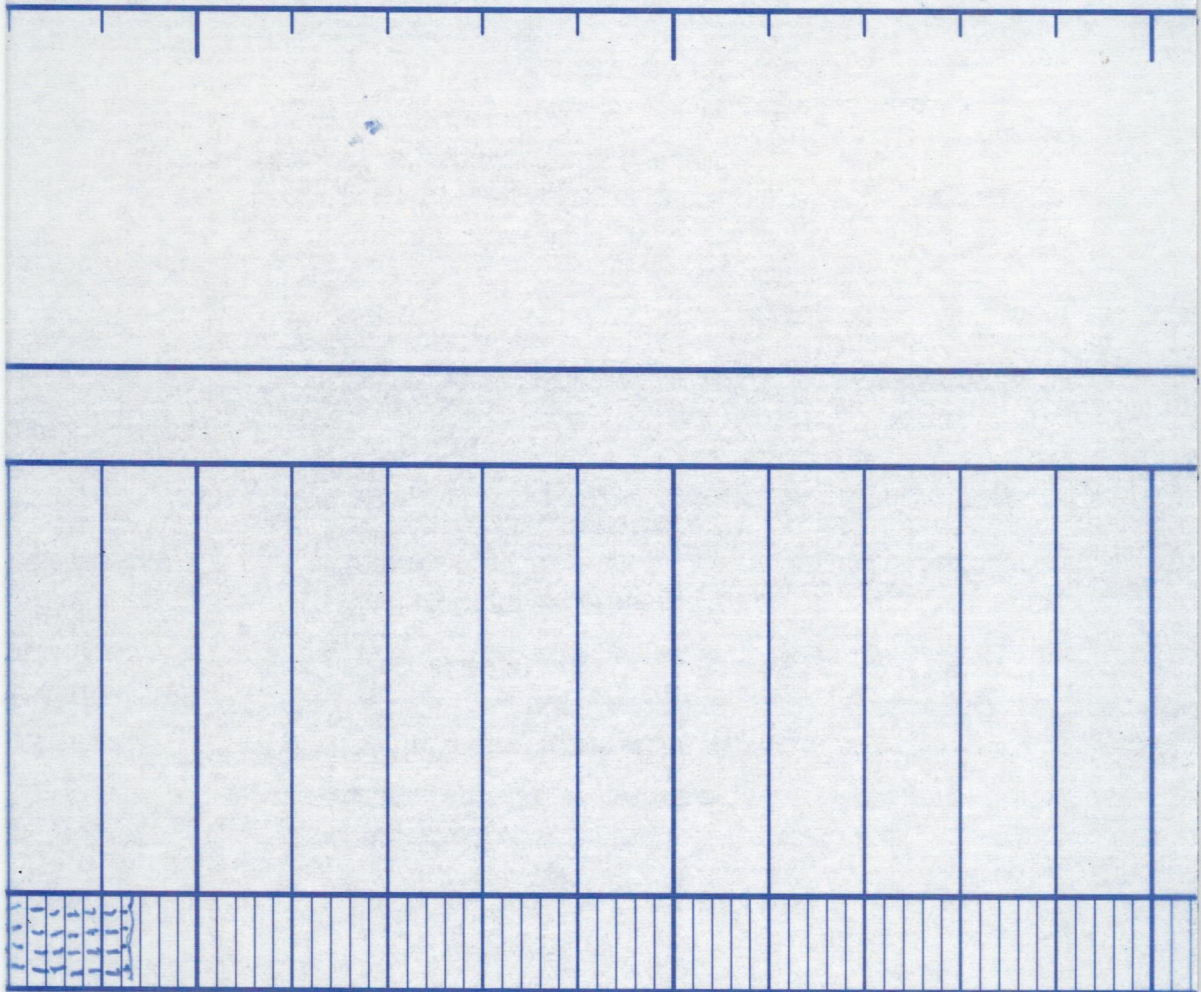
7502

LEGEND

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

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	1780 1800				

LOG 7710

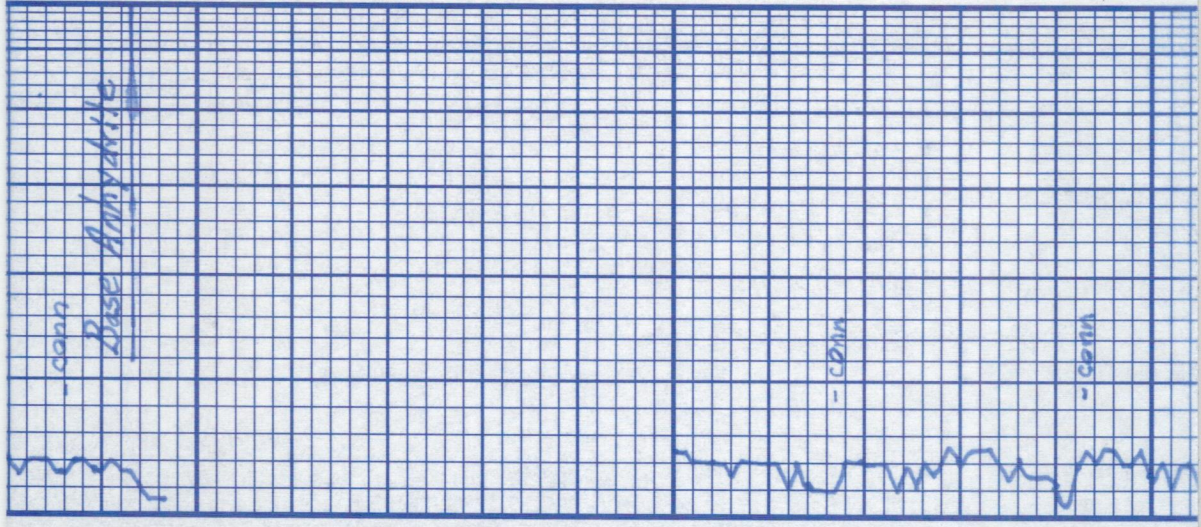


1820

3000

20

40



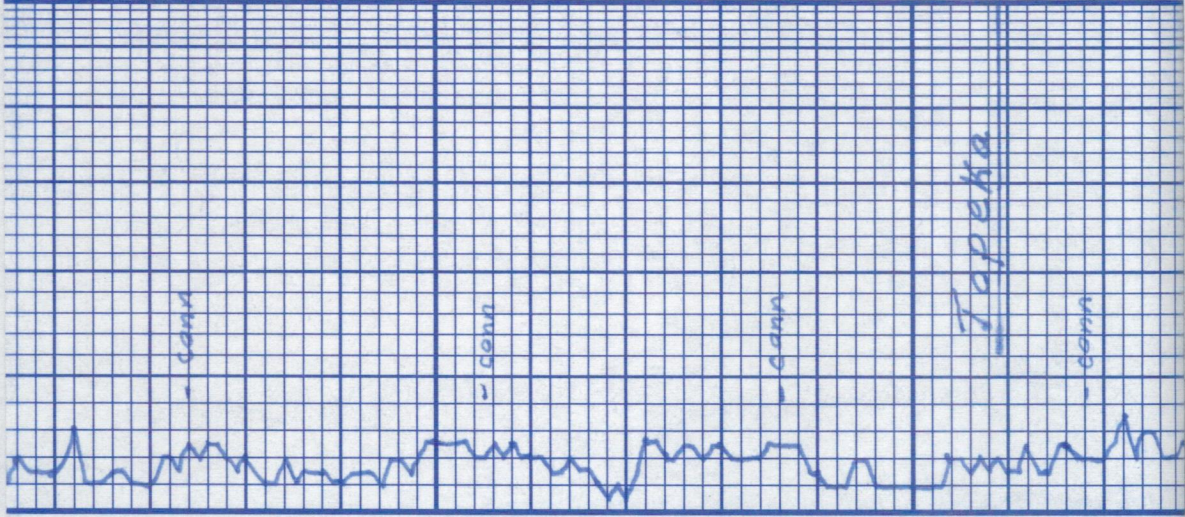
-CORN

Base Anhydride

-CORN

-CORN





60

80

3100

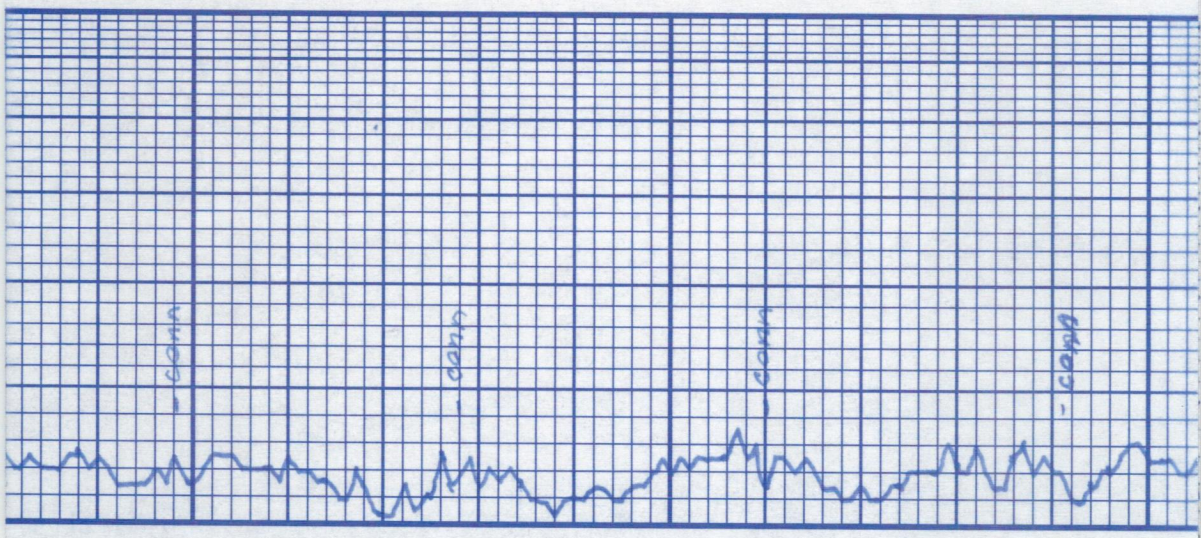
20

40

60

			LS: tn-gry fs/f dns						
			LS: tn-gry fs/f dns						
			Siltstone: gry						
			LS: tn-gry fs/f dns						
			LS: tn-gry fs/f dns						
			Siltstone: gry Tr 55 V. fn. gn. concol. ingran P. NSD.						
			LS: tn-gry fs/f dns						
			sh: brn + gry						

Samples are logged
good samples



LS: wh. tn. fxln dns	0
LS: gry fsif dns	3200
LS: wh. tn. gry sl. Chy - fsif No vis @ N.S.O.	
LS: gry fsif dns	
LS: tn. gry fsif dns	20
LS: wh. tn. V. Chy - fsif N.S.O. - Δy wh. tn.	
a.a.	
Chy Δyaa	40
LS: wh. tn. decr. Chy - fxln dns	
Sh: blk Carb.	60
LS: tn - brn mly fsif dns	
Siltstone: gry	
Siltstone: brn + gry	80
LS: wh. tn. fxln dns N.S.O.	
LS: tn. gry fsif dns	3300
Sh: brn	

15: wh-tn fcln sli 001-sub
 001 dns N.S.O.
 Sh: blk Carb
 AS: tn fslf dns
 ✓

15: wh-tn cky-fcln pp p
 1 PC- w/aspl spks
 Δ tn
 15: wh-tn fslf dns
 Sh: brn

15: wh-tn - Lt. gry cky-fslf
 Pr. pp p Δ wh-gry N.S.O.

a.a. - decr. Δ

Sh: Blk Carb.
 15: tn fslf dns.

Sh: gry Sltty + brn

15: wh-tn fcln sli 001 pr.
 pp p N.S.O. Δ wh-tn

15: wh-tn sli. cky-fcln
 001-sub. 001 pp p N.S.O.

15: wh-tn fcln dns

20

40

60

80

3400

'A'

20

- conn.

- conn.

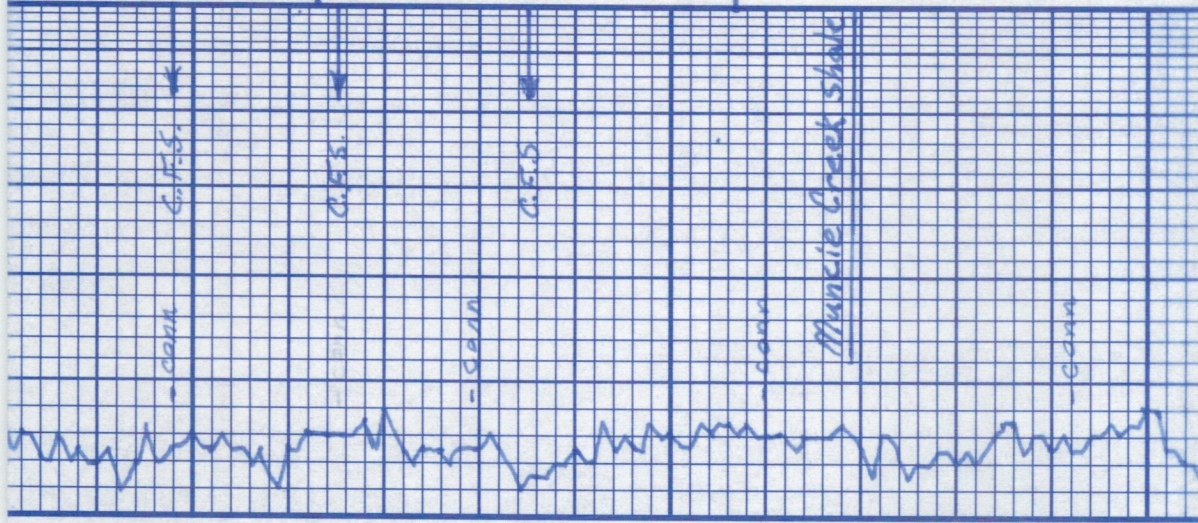
Heebner

- conn.

Toronto

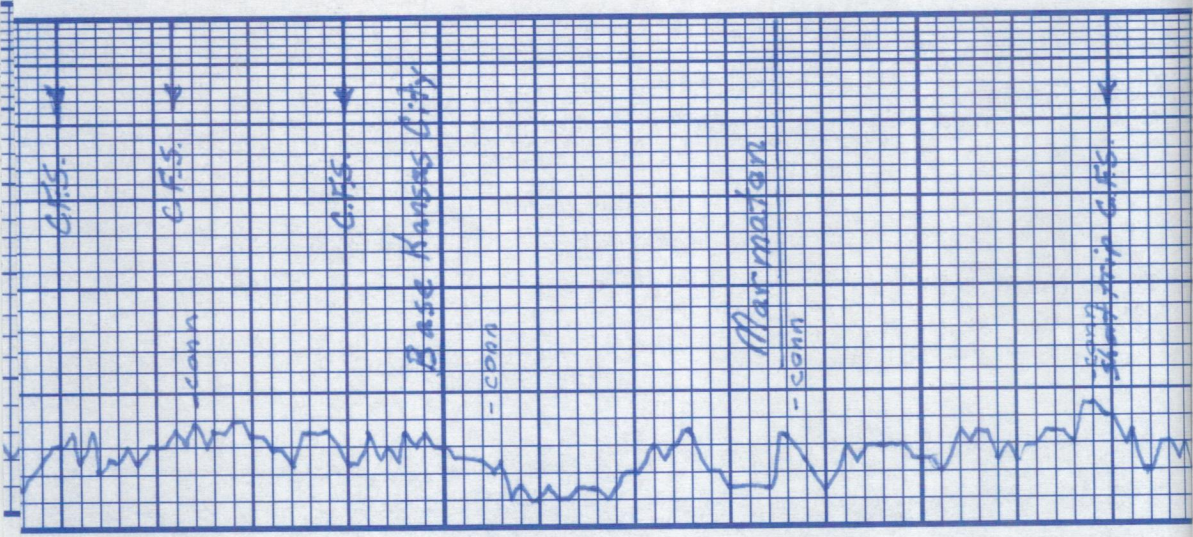
Lansing

- conn.

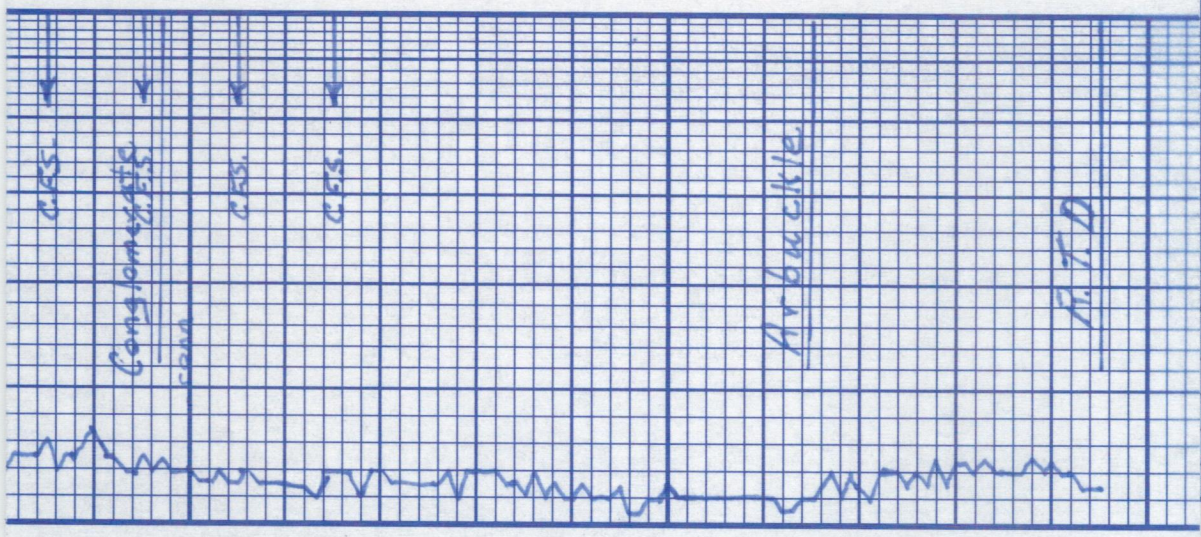


LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns	LS: wh-tn cky-fxln SL: gry fslf dns
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Trilobite Testing
 Test interval corrected to Rotary depths
 DST # 1 3460'-3504'
 Straddle Test
 45-30-45-30
 IF: wk blow incr. to 2 3/4"
 FF: 1/4" blow
 Recovery: 120' wcm
 10% w, 90% m
 HYD: 1742-1707 #
 FP: 15-43 / 48-70 #
 BHP: 867-854 #
 BHTemp: 107°F



790 pr 49 stn. 79. pp floatin F.G. V. fr odor	60	I	LS: wh-tn sli. cky-fxln Tr pr. Fr & pr. LS. Sp. 0.5tn Tr Small pp F.O. No odor
Sh: brn + gry	80	J	LS: wh-tn sli. cky-fxln RT. sli. ool. dns drk blk sp. d 0.5tn N.F.O. No odor
LS: wh-tn sli. cky-fxln dns	3600	K	Sh: brn sity
Sh: brn sity	20		Sh: brn sity
LS: wh-tn cky-fxln dns N.S.O.	40		LS: wh-tn fxln sub ool. dns N.S.O.
Sh: brn sity	60		SS: cir-frosted th. gn. Concol ingran & Tr drk 0.5tn N.F.O. sky LS: wh-tn fxln sli cky in part of Tr pr 44 0.5tn Sh: brn + gry, & or, wh-brn
LS: wh-tn fxln dns	80		



Sh: brn, yel, gry		
Sh: a. tr Δ tn-ye.		
V. Δ tv wh-tr	Δ Δ	
Δ + wea. Δ wh-yel-frost asph stn N.F.O. No odor	Δ Δ	
Sh: brn + gry	Δ Δ	
Δ + wea Δ wh-yel-brn dec. asph stn	Δ Δ	
Sh: brn slty decr Δ	Δ Δ	
Sh: brn + gry Tr. S. tn fcln drs N.S.O.		
Dol: wh-tr fcln-mxln incln φ N.S.O.	///	
Dol: wh-tr fcln-mxln incln φ N.S.O.	///	
Dol: wh-tr fcln-mxln incln φ Tr vgy φ N.S.O.	///	
Glauc Spds Tr. pyrite Spds	///	

3700
20
40
60
80
3800

C.S.S.
C.S.S.
C.S.S.
C.S.S.

Conglomerate

Arbuckle

R.T.D

✓