

API # 15-137-20637-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
 LEASE Anna # 2-15
 FIELD Wildcat
 LOCATION 330' FSL + 8.35' FEL
 SEC 15 TWSP 4S RGE 21W
 COUNTY Norton STATE Kansas

ELEVATION
 KB 2190'
 DF 2188'
 GL 2182'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WWD Drilling Rig #12
 SPUD 3-16-13 COMP 3-22-13
 SAMPLES SAVED FROM 3150' TO R.T.D

CASING
 Surface 8 5/8" @ 218'
 Production 5 1/2" @ 3762'
 ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>4. / log</u>				
<u>Anhydrite</u>	<u>Missing</u>			<u>+ 335</u>	<u>+ 354</u>		
<u>Base Anhydrite</u>	<u>Missing</u>			<u>+ 304</u>	<u>+ 323</u>		
<u>Topeka</u>	<u>3177</u>	<u>3181</u>	<u>- 991</u>	<u>-1001</u>	<u>- 987</u>		
<u>Heebner</u>	<u>3381</u>	<u>3385</u>	<u>-1195</u>	<u>-1194</u>	<u>-1183</u>		
<u>Taranto</u>	<u>3405</u>	<u>3409</u>	<u>-1219</u>	<u>-1221</u>	<u>-1209</u>		
<u>Lansing</u>	<u>3421</u>	<u>3425</u>	<u>-1235</u>	<u>-1236</u>	<u>-1229</u>		
<u>Base Kansas City</u>	<u>3619</u>	<u>3623</u>	<u>-1433</u>	<u>-1422</u>	<u>-1417</u>		
<u>Marmaton</u>	<u>3658</u>	<u>3662</u>	<u>-1472</u>				
<u>Arbuckle</u>	<u>3697</u>	<u>3701</u>	<u>-1511</u>				
<u>Total Depth</u>	<u>3760</u>	<u>3764</u>	<u>-1574</u>	<u>-1495</u>	<u>-1597</u>		

REFERENCE WELLS

- ^A Baird Oil Co.; Anna #1-15, 100' FNL + 460' FEL, sec. 15-4S-21W
- ^B Baird Oil Co.; Adee #1-14, 1210' FSL + 1080' FNL Sec. 14-4S-21W
- ^C
- ^D Port Collar @ 1841'

REMARKS

This well ran 1 foot higher to 6 feet lower on the casing top than the reference wells. Encouraging results on D.S.T. #1 warranted the cementing of production casing to further test the well. The zone from 3456'-3461' should be tested.

Richard B. Bell
3-23-13

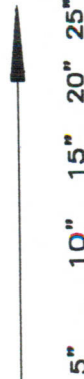
7502

LEGEND

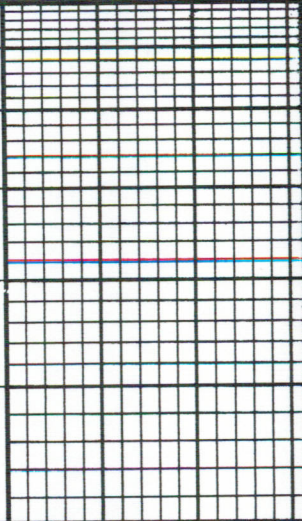
- 
Anhydrite
- 
Salt
- 
Sandstone
- 
Shale
- 
Carb sh
- 
Limestone
- 
Ool. Lime
- 
Chert
- 
Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



DEPTH



LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

Anhydrite is missing
on this well

LOG 7710

good samples

Drilling time has
to be adjusted down
4ft. to match open
hole log depths.

60

80

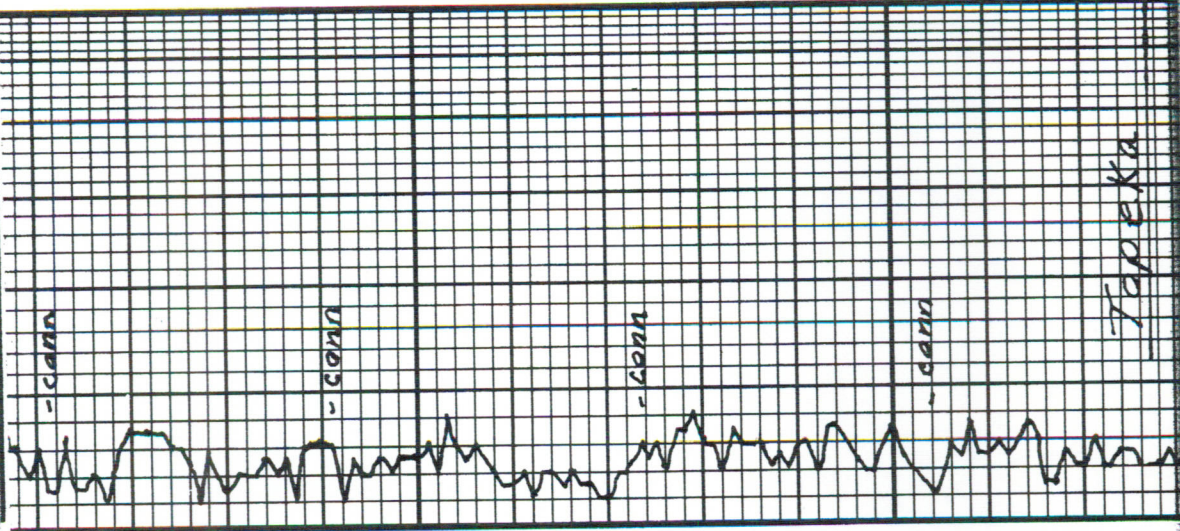
3100

20

40

60

80



sh:brn & gry

ls:tn-gry fs/f dns.

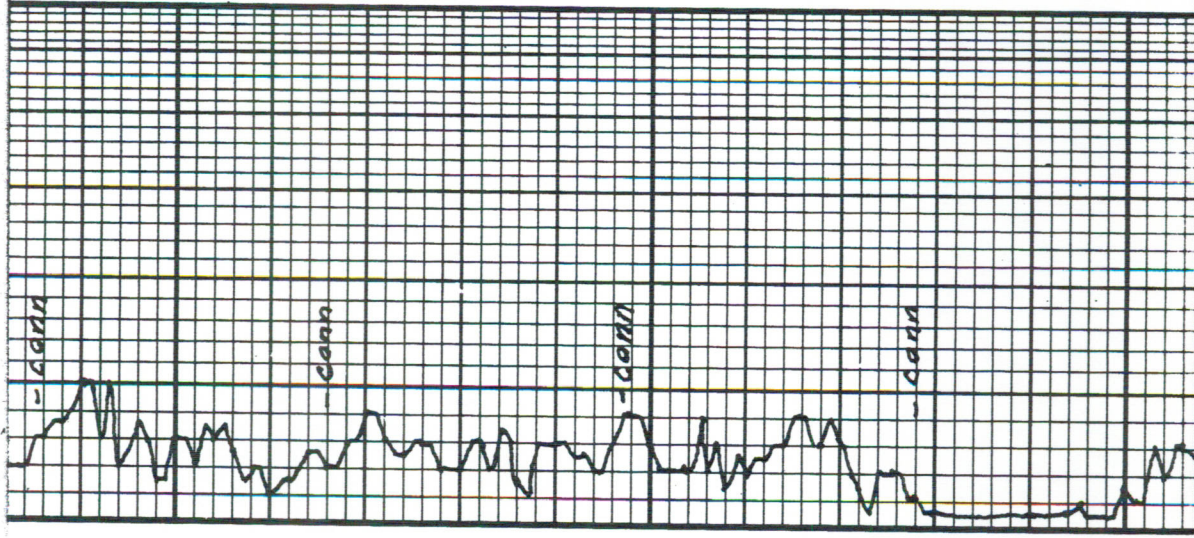
ls:tn-gry fs/f dns

sh-brn, gry

ls:gry-ark gry fs/f dns

sh:brn, gry

ls:tn-gry fs/f dns



LS: th fxln - sli. fslf dns	LS: th - gry fxln - sli. fslf dns	LS: wh - th - gry fxln - sli. fslf dns	LS: wh - th - gry fxln - sli. fslf dns	LS: th - gry fslf dns	LS: th - gry fslf dns	Sh: brn slty Tr: ss: brn v. fr: ga Consol. ingrand N.S.O.	Sh: brn slty, gry
-----------------------------	-----------------------------------	----------------------------------------	----------------------------------------	-----------------------	-----------------------	-----------------------------------------------------------	-------------------

3200

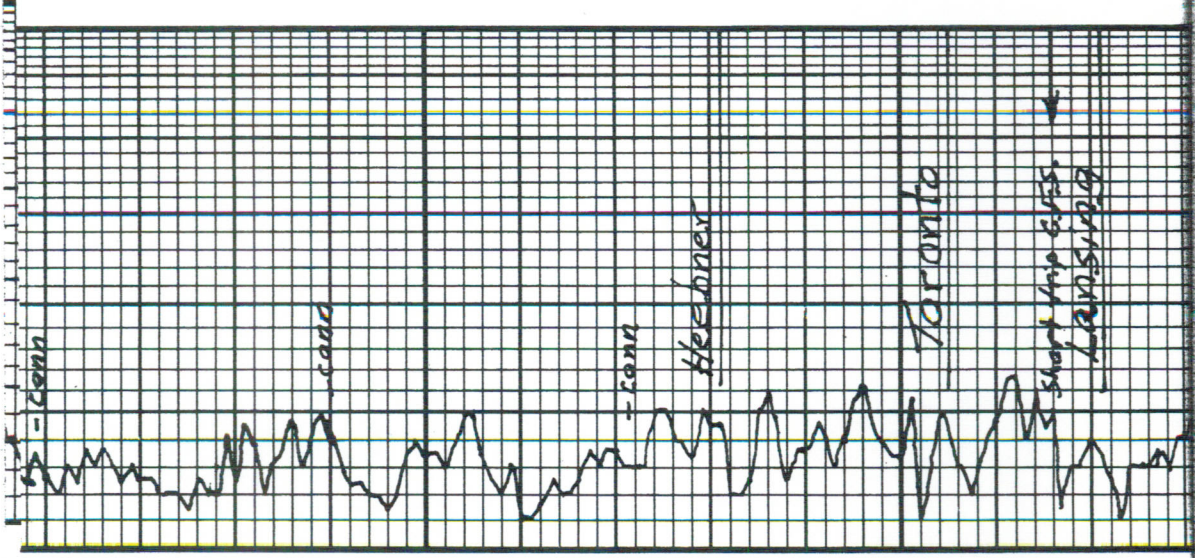
20

40

60

80

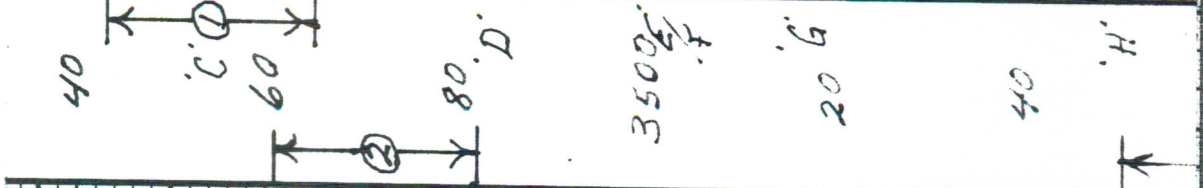
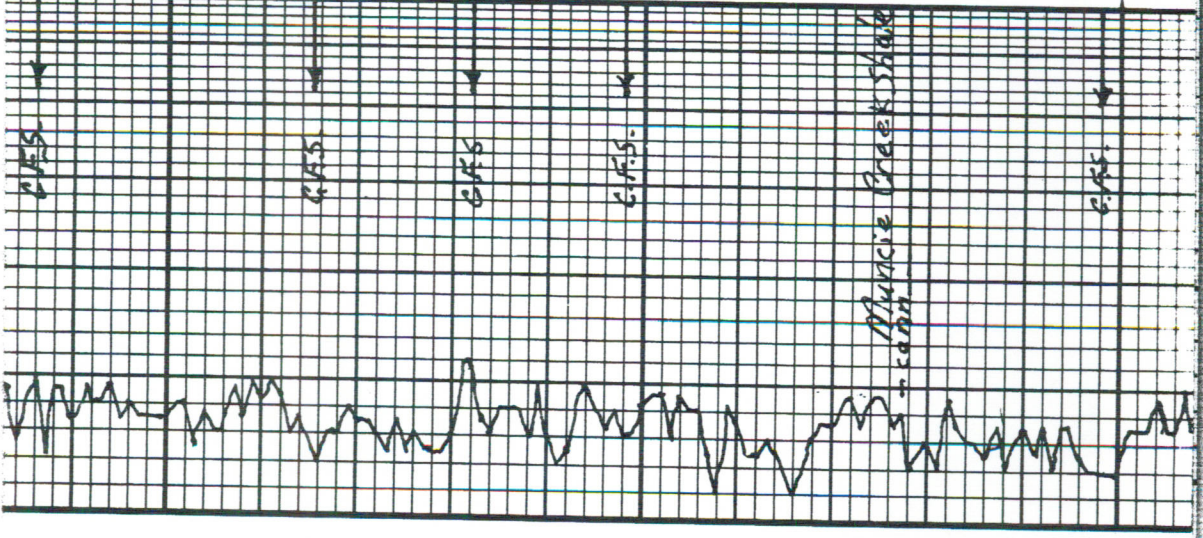
3300



LS: wh-tn-ckx-sli-ööl- sub ööl ppø N.S.O.	20	LS: wh-tn-ckx-sli-ööl ppø N.S.O.
LS: tn-yel-grx fsf dns		
Sh: brn, gry		
LS: wh-tn-ckx-fxln sli. ööl ppø N.S.O.	40	Tr: BIK Carb sh LS: tn-fxln dns
LS: wh-tn-ckx-fxln Tr ppø N.S.O.		
LS: wh-tn-ckx-fxln ööl ppø N.S.O.	60	LS: tn-fxln dns
LS: tn-fxln dns		
Sh: BIK Carb	80	LS: tn-grx fsf dns
LS: tn-grx fsf dns		
Sh: brn, gry		
shly: sd brn shly Lm brn	3400	LS: wh-tn-ckx-fxln tr ppø mostly dns N.S.O.
LS: wh-tn-ckx-fxln tr ppø		
LS: wh-tn-ckx-fxln tr ppø mostly dns N.S.O.	20	Tr shly LS: sh-brn
LS: wh-tn-ckx-fxln tr ppø Sub ööl w/ fass inclus dns N.S.O. No cut	'A'	

Incline @ 3465' 3/4°

Strap 3470.41
 Board 3465.75
 Diff 4.66
 Board Correction .91
 Strap long 3.75
 Trilobite Testing

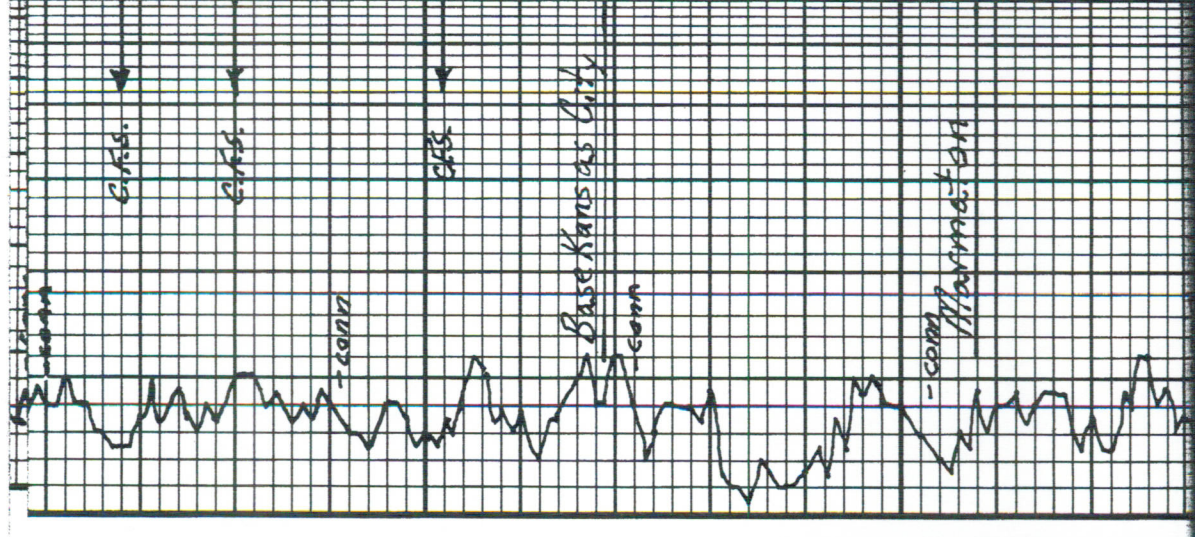


LS: wh-tn fckn dns n.s.o.	LS: wh-tn fckn-fs lf oil w/above foss. inclus. pp @ Lt. o. stn. PP F.O. on crushing fr. odor	LS: wh-tn slicky-fckn dns sli. foss. inclus. fr. fnly oil pp @ Lt. O. stn N.F.O.	LS: wh-tn slicky-fckn dns oil pr. pp @ Lt. Lt. sptd o. stn N.F.O. No odor	LS: wh-tn cky-fckn dns d wh	LS: wh-tn v. cky-fckn oil pp @ n.s.o.
sh: brn, gry	sh: brn, gry	sh: brn	sh: brn	sh: blk carb brn	sh: brn gry
FSI: No blow	FSI: No blow	FSI: No blow	FSI: No blow	FSI: No blow	FSI: No blow
Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total	Recovery: 195' Total
5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m	5' Oil 95% 27G, 37m
69' OCW 2370, 172G, 762m	69' OCW 2370, 172G, 762m	69' OCW 2370, 172G, 762m	69' OCW 2370, 172G, 762m	69' OCW 2370, 172G, 762m	69' OCW 2370, 172G, 762m
61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m	61' W40CM 33% 52G, 20% W, 427m
60' OCWM 620, 62G, 432W 452m	60' OCWM 620, 62G, 432W 452m	60' OCWM 620, 62G, 432W 452m	60' OCWM 620, 62G, 432W 452m	60' OCWM 620, 62G, 432W 452m	60' OCWM 620, 62G, 432W 452m
HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#	HYD: 1694-1695#
FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#	FP: 21-85/90-96#
BHP: 559-546#	BHP: 559-546#	BHP: 559-546#	BHP: 559-546#	BHP: 559-546#	BHP: 559-546#
BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F	BH Temp: 102°F
Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API	Gravity: 29.8° API
Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm	Chlorides: 18,000ppm

DST #1 3443-3465
 45-45-45-45
 IF: wt blow incr. to 10"
 ISF: surface blow
 FF: wt blow incr. to 6"
 FSI: No blow
 Recovery: 195' Total
 5' Oil 95% 27G, 37m
 69' OCW 2370, 172G, 762m
 61' W40CM 33% 52G, 20% W, 427m
 60' OCWM 620, 62G, 432W 452m
 HYD: 1694-1695#
 FP: 21-85/90-96#
 BHP: 559-546#
 BH Temp: 102°F
 Gravity: 29.8° API
 Chlorides: 18,000ppm

DST #2 3461-3482
 30-30-0-0
 IF: wt blow died in 22 min
 FF: No blow pulled too!
 Recovery: 145' Mad
 HYD: 1711-1686#
 FP: 82-85#
 BHP: 126#
 BH Temp: 96°F

DST #3 3550-3602
 30-30-30-30-14"
 30-30-30-30-14"



60 'J'
 80 'J'
 Y3600K
 20
 40
 60
 80

Sh: brn, gry Ls: tn-fxln dns NSD.	NSD
Ls: wh-tn-fxln-sli-fsif Tr. pp on edges fr. Spd 0.5tn Tr. pp floating F.O. ft odor Tr. asph stn	✓
Sh: brn, gry Ls: wh-tn-cky-fxln-sli-ool w/ foss. incl. Tr. pp pp Tr. fr. O. 5tn N.F. O. No odor	✓
Ls: yel fsif dns	
Ls: tn-yel-fxln-fsif dns N.S.O.	
Sh: gry, brn	
Ls: wh-tn-slicky-fxln sub ool Tr. pp pp N.S.O.	
Sh: brn, gry	
Ls: yel-brn fsif dns	
Ls: wh-tn-slicky-fxln dns	

LT: wh-tn
 FF: No blow
 Recovery: 30' Mud
 w/ Trace of water
 HYD: 1777-1744#
 FP: 12-20/23-27#
 BHP: 1195-1162#
 BHTemp: 99°F

