

A.P.T. # 15-137-20644-0000

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.  
LEASE Esslinger Ranch, Inc. # 3-27  
FIELD Wildcat  
LOCATION 2000' FNL + 1480' FEL  
SEC 27 TWSP 3S RGE 22W  
COUNTY Norton STATE Kansas

ELEVATION  
KB 2359'  
DF 2357'  
GL 2351'  
Depths Measured From  
Log KB Drilling KB

CONTRACTOR W.W. Drilling Rig #12  
SPUD 4-11-13 COMP 4-17-13  
SAMPLES SAVED FROM 3300' TO R.T.D.

CASING  
Surface 8 5/8" @ 262'  
Production None  
ELECTRIC LOGS  
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM E. 129	A	B	C	D
				●	●		
Anhydrite	2039	2038	+ 321	+ 320	+ 319		
Base Anhydrite	2068	2068	+ 291	+ 292	+ 288		
Topeka	3351	3351	- 992	- 987	- 987		
Heebner	3557	3557	- 1198	- 1190	- 1195		
Toronto	3583	3583	- 1224	- 1216	- 1220		
Lansing	3600	3600	- 1241	- 1234	- 1239		
Base Kansas City	3788	3788	- 1429	- 1418	- 1424		
Marmaton	3824	3824	- 1465				
Arbuckle	3854	3854	- 1495	- 1487	- 1489		
Wea Granite	3962	3962	- 1603	- 1572	- 1579		
Total Depth	3988	3988	- 1629	- 1601	- 1621		

REFERENCE WELLS

- A Baird Oil Co. Inc., Esslinger Ranch, Inc. # 2-27, 2015' ESL + 2235' EWL Sec 27
- B Baird Oil Co. Inc., Esslinger Ranch, Inc. # 1-27, 735' ESL + 2545' FEL Sec 27
- C 3.5-22W
- D





REMARKS  
 This well ran 2 to 7 feet lower on the Lansing top than the reference wells.  
 Due to the low structural position and unfavorable test results, it was decided  
 the well should be plugged and abandoned.  
 Richard G. Bell  
 4/17/13

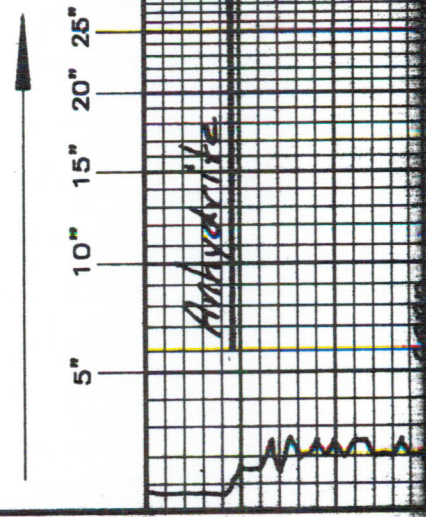
7502

LEGEND

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

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
2030			
2050			
			OIL SHOWS

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration Decreases



LOG 7710



2070

3150

60

80

3200

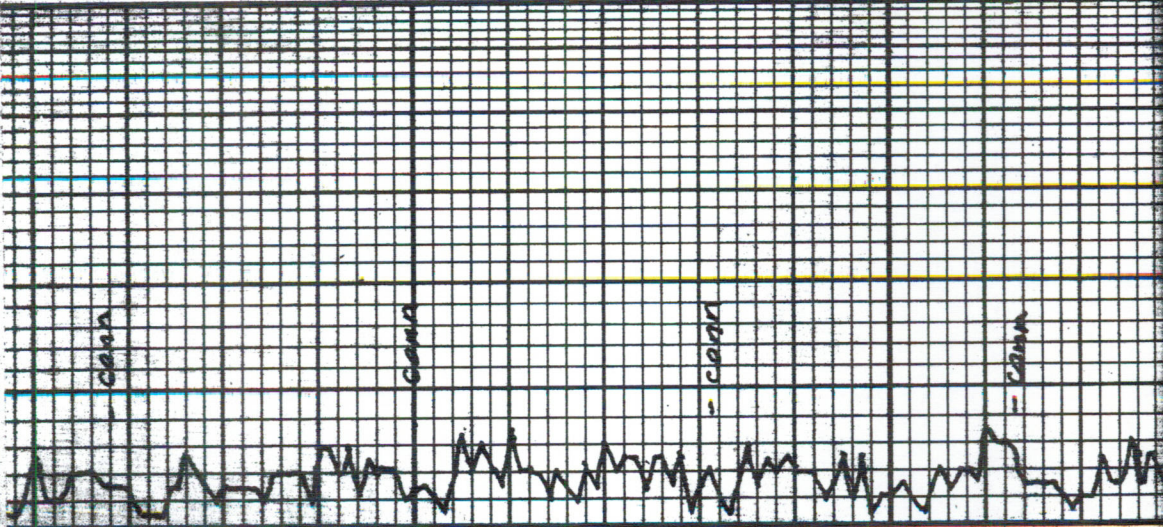
Base Anhydride

-CANN

CANN







20

40

60

80

3300

20



LS: wh-fn-ht-gry v. cky-  
fals. dms. also.

sh: brn sily

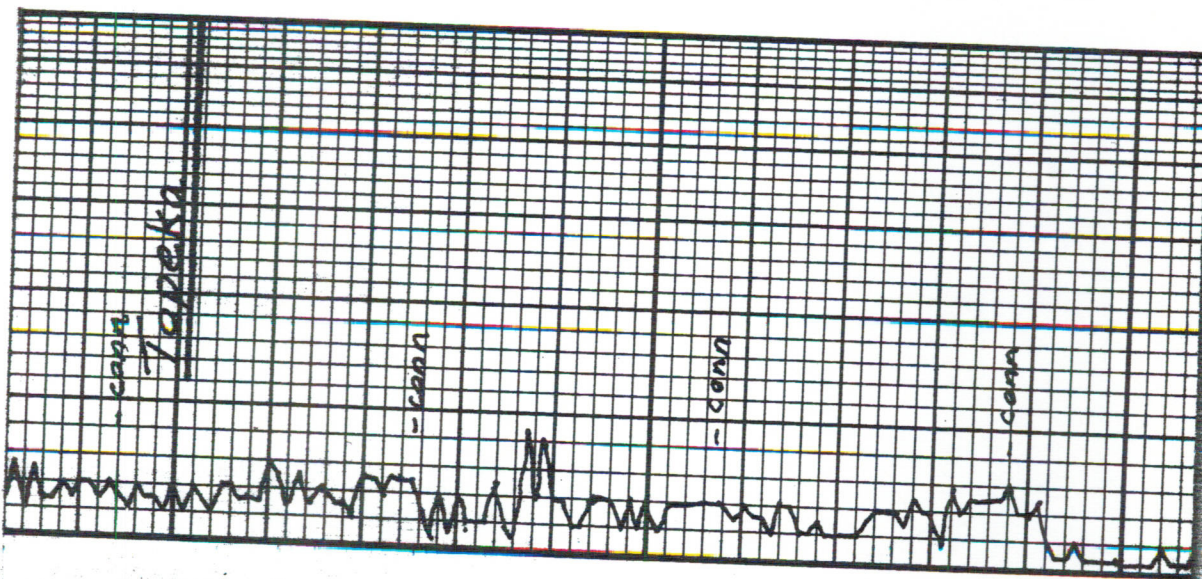
LS: tp-gry fcln-sli. fslf  
dms. also.

sh: brn, gry

LS: wh-fn-gry cky-Blf  
No vis. ⌀ N.S.O.

Samples are 1/2 gged  
good samples





40

60

80

3400

20

40

LS: aa

Sh: gry, brn

LS: wh-ta-sli, yel cky-feln  
-fs lf pp N.S.A

aa

Sh: brn, gry

LS: wh-ta cky-feln pp  
N.S.A-

Sh: brn, gry

SS: wh-gry V. fn. gn Consol.  
ingran N.S.g  
Sh: brn sky

LS: wh-ta cky-feln oal pp  
N.S.A

LS: aa, becoming more dns  
Δxy wh-tr

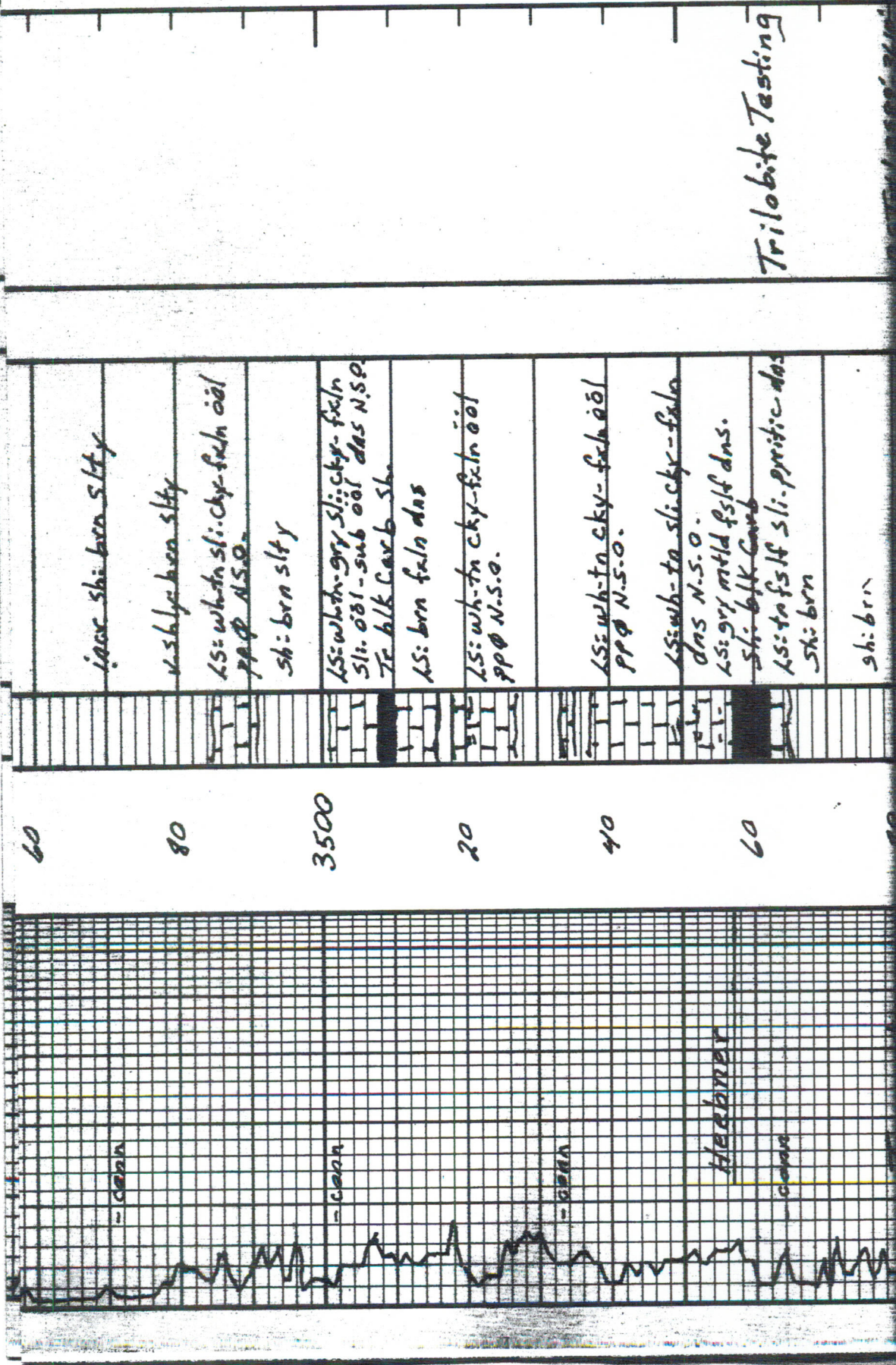
LS: wh-ta cky-feln oal pp  
N.S.A. Δ wh-tr

LS: wh-ta-gry sli-cky-feln  
das sli. glauē spk3

Tr SS: gry V. fn. gn.  
Consol. ingran N.S.A.

SS. aa Sh: brn sky





60

80

3500

20

40

60

iacc. sh: brn slty

vshly: brn slty

ls: wh-tn sl: cky-feln öl  
ppø N.S.O.

sh: brn slty

ls: wh-tn gry sl: cky-feln  
sl: öl - sub öl das N.S.O.  
Fe blk Carb sh

ls: brn feln das

ls: wh-tn cky-feln öl  
ppø N.S.O.

ls: wh-tn cky-feln öl  
ppø N.S.O.

ls: wh-tn sl: cky-feln  
das N.S.O.

ls: gry mtd fsif dns.  
sh: blk Carb

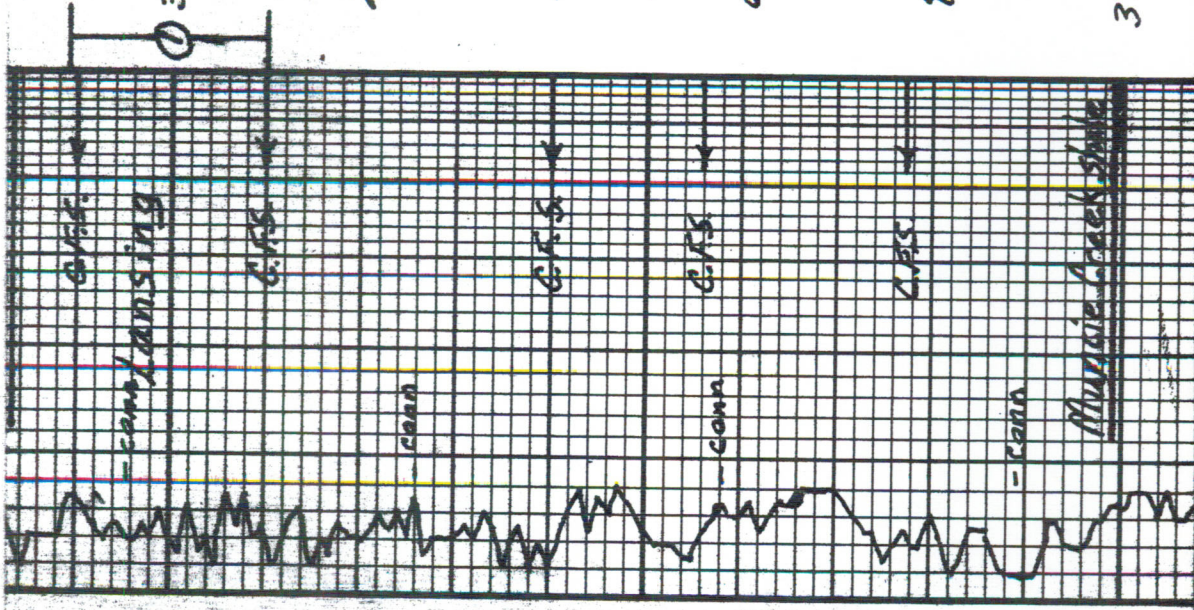
ls: tn fsif sl: pyritic das  
sh: brn

sh: brn

Heckmeter

Trilobite Testing





3600	✓	LS: wh-fn sl. chky-faln sl. oil-sub. oil pp φ ns. φ
20	✓	sh: brn + gry LS: wh-fn faln oil / sl. foss. inclus. pp φ-in part φ ns. φ stn pp faln fr-stk odor
40	✓	LS: wh-fn sl. chky-faln dns sh: brn, gry, grn LS: wh-fn sl. chky-faln fr. pp φ NSP-Δ wh-lt. gry, brn, gr
60	✓	sh: brn slty, gry, grn LS: wh-fn chky-faln pp φ - sl. v. gry, dk brn spid stn thick stringy oil floating f.o. no odor Δ wh. LS: lt. gry faln-sl: slty dns sh: brn, gry, grn
80	✓	LS: wh-fn chky-faln sl. pyritic sl. oil pp φ fr. spid fr floating f.o. no odor LS: wh-fn chky-faln pp φ NSP-Δ +y tn- gry
3700		sh: blk carb sh: gry slty

45-45-45-45  
IF: wh blow incr. to 1/4"  
decr. to 3/4"

FF: wh blow 1/4"  
Recovery: 20' NMM  
10% W 90% M  
NHD: 1773-1715 #  
FP: 11-23 / 25-35 #  
BHP: 104-1034 #  
BHTemp: 89°F

Strap 3627.05  
Board 3626.37  
Diff. .68  
Incline @ 3610' 3/4"



DST# 2 3725-3757  
 30-30-0-0  
 IF: wk blow  
 Recovery: 5' Mud  
 Hyd: 1879-1834#  
 FP: 9-12#  
 BHP: 40#  
 BHTemp: 89°F.

DST# 3 3755-3790  
 45-45-45-45  
 IF: wk blow incr. to 2 1/4"  
 FF: wk blow incr. to 2 3/4"  
 Recovery: 62' Total  
 S. C. O.  
 57' MCO 50% O, 50% M  
 Hyd: 1905-1897#  
 FP: 12-26/29-40#  
 BHP: 1024-905#  
 BHTemp: 89°F.

LS: wh-fn cky-fxn -  
 sh: slt. brn s/s

AS: aa-

sh: slt. brn s/sly

LS: th. lt. gry-brn fxn  
 No v.s. N.S.O.

sh: brn, gry

LS: wh-fn fxn sat pp  
 sl: vgyd lt. - fr O sat. pp  
 F.O. Rainbow S.O. No odor

sh: brn, gry

LS: wh-fn fsif pp - vgyd  
 At. rainbow S.O. pp F.O.  
 No odor

sh: brn

LS: wh-fn cky-fxn - fr. slt.  
 fsif das N.S.O.

sh: brn

sh: brn

sh: brn s/sly

sh: gry s/sly

LS: wh-fn-brn cky-fxn -  
 das N.S.O.

20' H

40' I

J

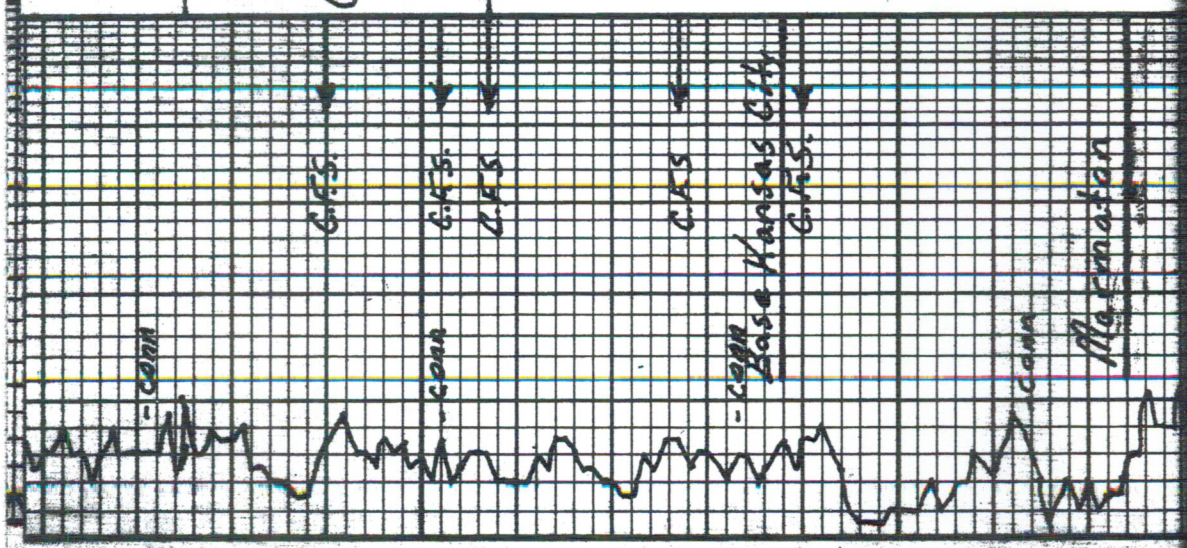
60

'K' ③

80' I

3800

20





40	LS: wh-fn cky - fxlh sl: oöl w/5d embed. asph. Taryo
60	Dol: wh-fn Dol: wh-fn mch inda-ingran N.S.O. glauc spks
80	Dol: wh-fn-brn fxlh - mch inda 51: vgy N.S.O. glauc. spks.
3900	Dol: wh-fn-brn-yel fxlh - mch inda vgy glauc. spks
20	a.a. sk: brn
40	Dol: tn, yel. - brn fxlh - mch inda vgy glauc spks
60	Qtz w/biot spks unconsol. cl: frast. ang - Tr sub rd N.S.O.
80	Qtz a.a. incr sub rd N.S.O.
4000	Quartz, biotite, feldspar Incr. Qtz, biot. felds a.a. sub. felds

