

APT. # 15-137-20614-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.
LEASE Ksm Ranch # 1-36
FIELD _____
LOCATION 765'FNL + 415'FWL
SEC 36 TWSP 35 RGE 22W
COUNTY Norton STATE Kansas

ELEVATION
KB 2283'
DF 2281'
GL 2278'
Depths Measured From
Log KB Drilling KB

CONTRACTOR WW Drilling Rig # 8
SPUD 9-8-12 COMP 9-14-12
SAMPLES SAVED FROM 3250' TO R.T.D.

CASING
Surface 8 5/8" ID 218'
Production None

ELECTRIC LOGS
Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>2709</u>				
<u>Anhydrite</u>	<u>1952</u>	<u>1952 +</u>	<u>331</u>	<u>+ 325</u>	<u>+ 325</u>		
<u>Base Anhydrite</u>	<u>1983</u>	<u>1983 +</u>	<u>300</u>	<u>+ 297</u>	<u>+ 296</u>		
<u>Topeka</u>	<u>3281</u>	<u>3280 -</u>	<u>997</u>	<u>- 995</u>	<u>- 996</u>		
<u>Wheeler</u>	<u>3480</u>	<u>3480 -</u>	<u>1197</u>	<u>- 1196</u>	<u>- 1196</u>		
<u>Toronto</u>	<u>3503</u>	<u>3503 -</u>	<u>1220</u>	<u>- 1222</u>	<u>- 1221</u>		
<u>Lansing</u>	<u>3520</u>	<u>3520 -</u>	<u>1237</u>	<u>- 1237</u>	<u>- 1238</u>		
<u>Base Kansas City</u>	<u>3715</u>	<u>3715 -</u>	<u>1432</u>	<u>- 1430</u>	<u>- 1429</u>		
<u>Marmaton</u>	<u>3743</u>	<u>3743 -</u>	<u>1460</u>	<u>- 1461</u>	<u>- 1460</u>		
<u>Granite Wash</u>	<u>3767</u>	<u>3767 -</u>	<u>1484</u>				
<u>Total Depth</u>	<u>3813</u>	<u>3812 -</u>	<u>1529</u>	<u>- 1546</u>	<u>- 1502</u>		

REFERENCE WELLS

- ^a Baird Oil Co., Esslinger Ranch, Inc. #1-26, 410' FSL + 1635' FWL Sec. 26-35-22W
- ^b Baird Oil Co., Esslinger Ranch, Inc. #7-35, 1115' FNL + 550' FWL Sec. 35-35-22W
- ^c
- ^d

REMARKS

This well ran flat to 1 foot higher on the casing top than the reference well. After reviewing the open hole log, it was decided no further testing was warranted. The well was plugged and abandoned.

Richard S. Bell
9-15-12

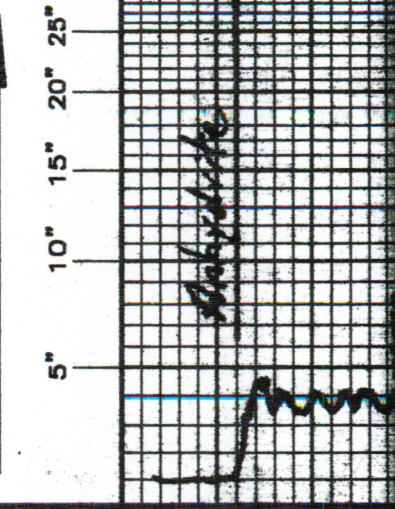
7502

LEGEND

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

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



1940

60

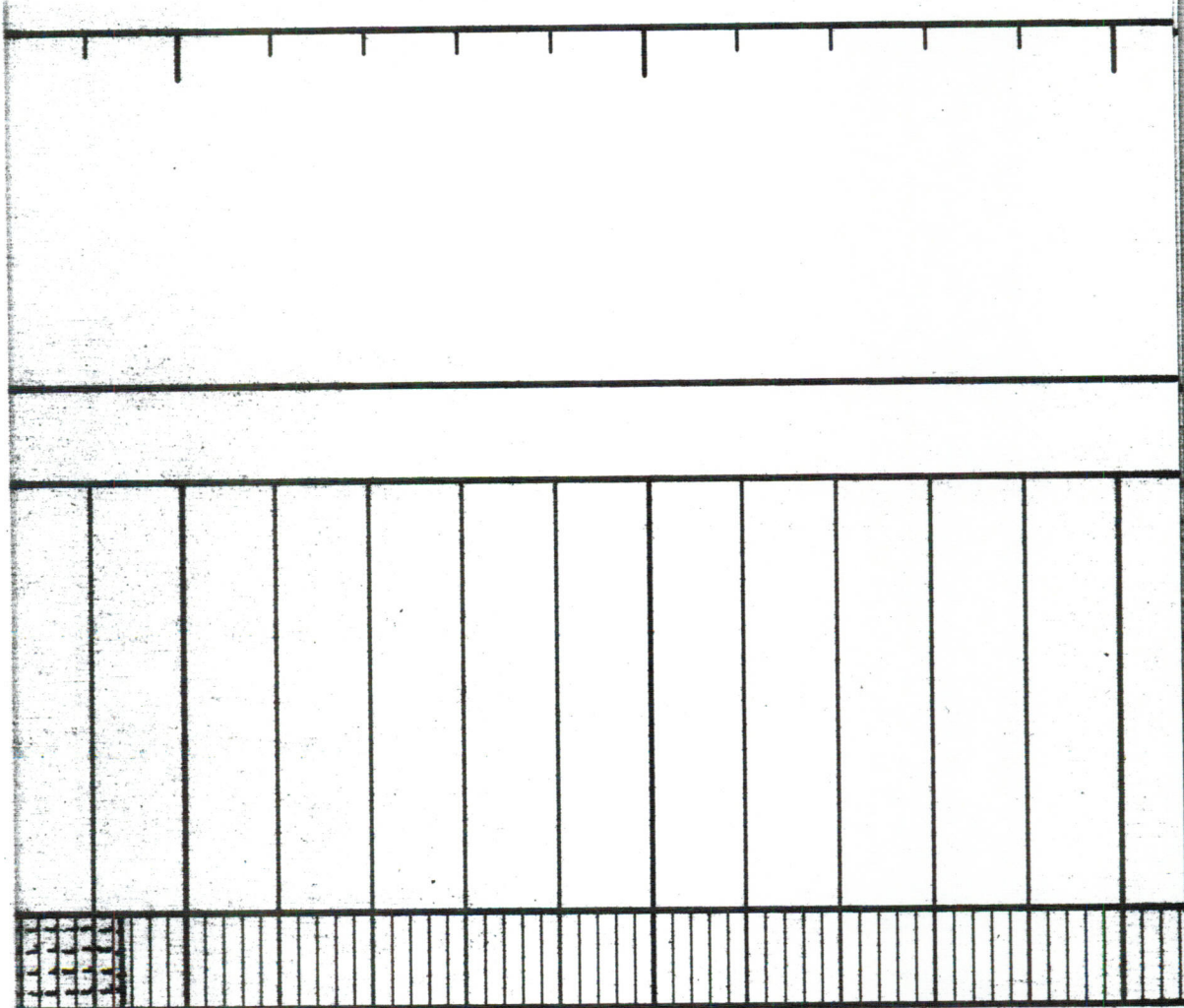
LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

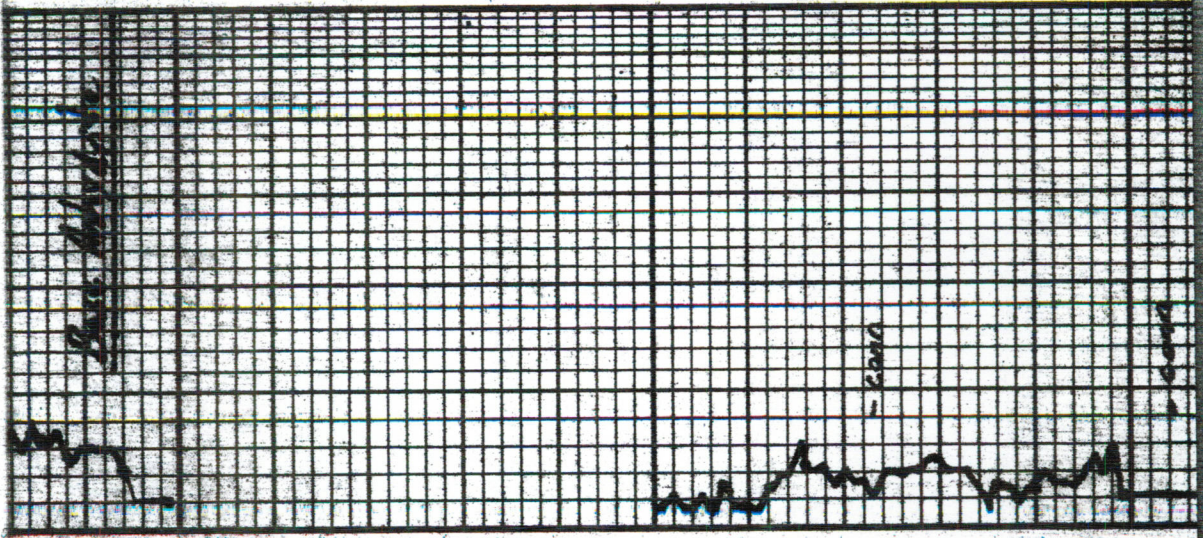
LOG 7710



80

3150

3200



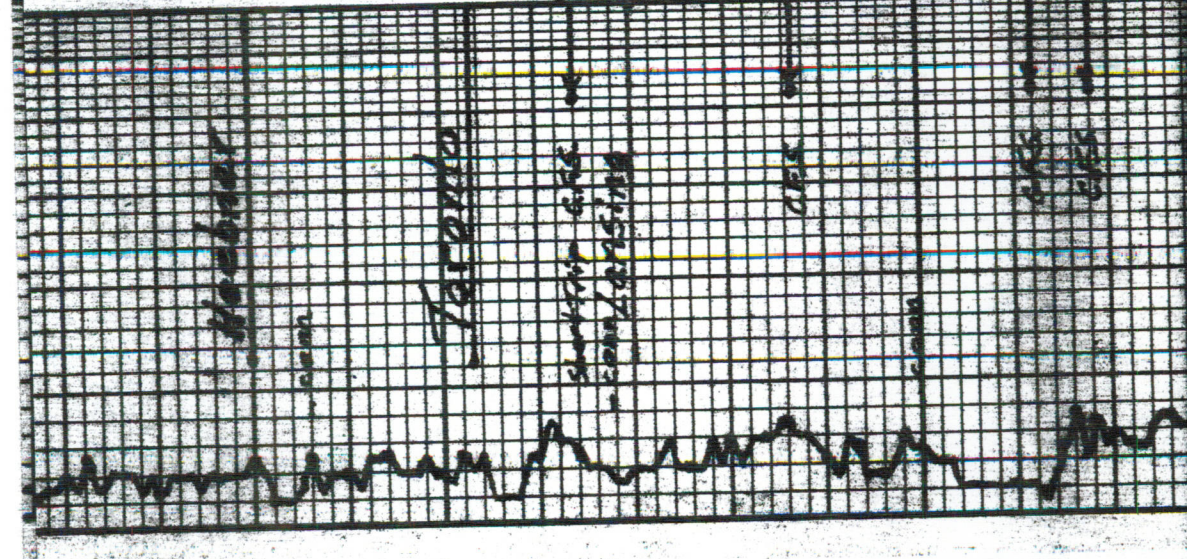
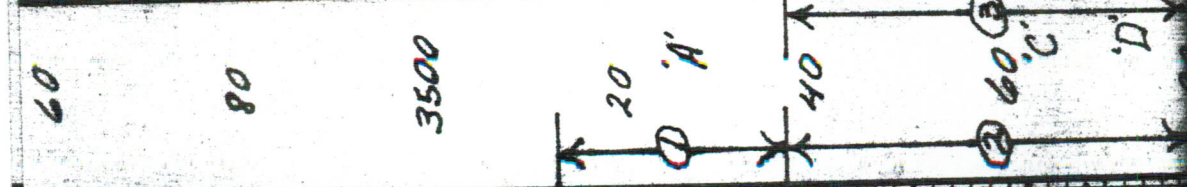
Board 3550.11'
 Strap 3549.78'
 Diff. .33'
 Incline $1\frac{1}{2}^\circ @ 3537'$

DST #1 3513'-3537'
 45-45-45-45
 IF: wk blow incr. to 2"
 PF: wk blow incr. to $\frac{1}{2}$ "
 Recovery: 126' wtr.
 3" F.O.
 Hyd: 1735-1718#
 FP: 1276/71-91#
 BHP: 804-108#
 BHTemp: 96°F.
 Test tool out sync.
 PSI. is not right.

DST #2 3537'-3580'
 MSTRUN Hit a bridge
 around 2030'

DST #3 3537'-3580'
 30-45-30-45
 IF: wk blow died in 20min
 PSI. No blow

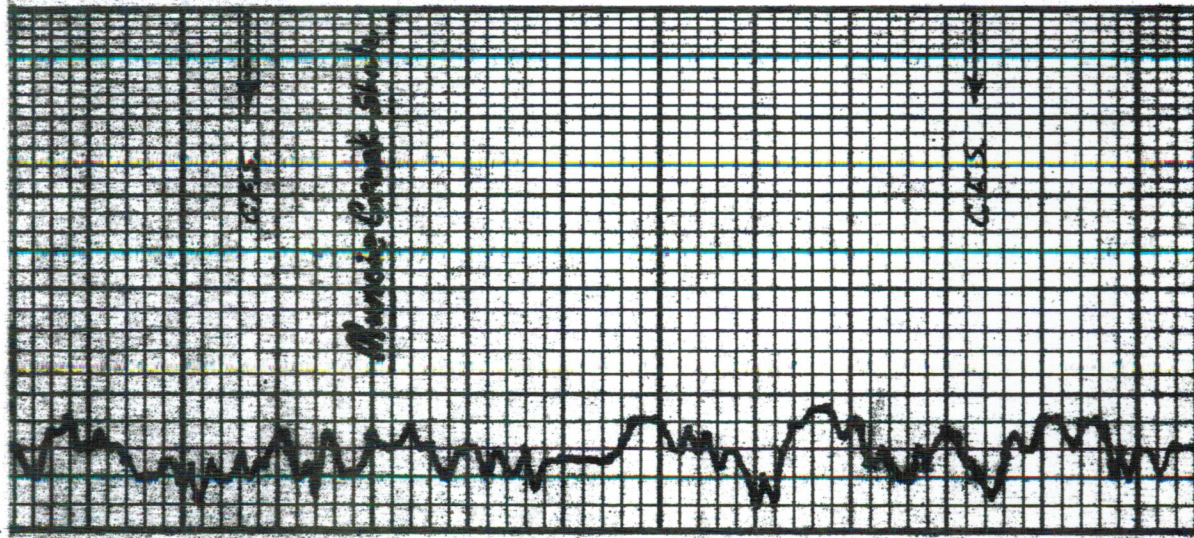
ls: wh-tn cky-fxln ool
 pp N-S.O.
 brn-yel shly ds.
 ls: th-ht-gry sli. cky-fxln
 dns. Fr Δ tn
 Sh: Blk Carb
 ls: tn-lt-gry sli. mald Fr
 pp N-S.O. DTY tn-or
 sh: brn slty, gry, grn
 ls: wh-tn sli. suc.-fxln ool
 pp N-S.O. DTY tn-or
 sh: gry, brn, grn
 ls: wh-tn sli. cky-fxln ool
 w/ pass. inclus. pp Φ -Fr.
 in part Φ fr. o str. pp F.O.
 on reaching, fr-gd odor
 ls: wh-tn fxln dns
 sh: brn, gry, grn
 sh: brn, gry, grn
 ss. cl. fr. brn v. fr. gn conse
 in str. Φ N-S.O.
 ls: wh-tn sli. cky-fxln dns
 N-S.O. a wh-tn
 sh: brn
 ls: wh-tn fxln ool pp Φ -Fr.
 w/ Φ fr. o str. M. rainbow
 ss. cl. pp F.O. fr. odor



No. 1871-1763#
 FP: 20-25/27-28#
 BHP: 317-254#
 BHTemp: 90°F.

15-in-14-gry-fxln dms sh-brn lvs. gen	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	Sh: blk carb 15-in-14-gry-fxln dms	Sh: brn silty	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	Sh: brn	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color	Sh: brn silty, gry	15-in-14-gry-fxln dms pp. fr. 0.5 in pp. fr. a. fr. color
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3600
 'G'
 20
 40 'H'
 60 'I'
 80 'J'
 3700 'K'



Mud's Creek

C.A.S.

DST #4 3735'-3760'
 30-30-0-0
 1st wk blow died in 5 min
 Pulled tool
 Recovery: 5' Mud
 HYD: 1955-1913#
 FP: 18-21#
 BHP: 55#
 BH Temp: 96°F

LS: wh. to cky-feln. dms N.S.O.	Sh: brn slty SS: brn fn gr consol ingran N.S.O.	LS: wh. to cky-feln. oöl lot foss inclus. dms N.S.O.	LS: wh. to sli. cky-feln. oöl ppp - fr. v. g. s. g. fr. ingran ppp brn. s. g. fr. d. u. g. odor Sh: brn, gry	LS: wh. to feln. oöl ppp - v. g. pp bleeding f.o. sdy LS wh. f. g. s. g. fr. ingran ppp s. g. fr. bleeding f.o. fb. odor Qtz. ckr - frusted ang w/ brotite spks. Incr. Qtz. ang - ckr - frusted Sh: brn wea. Qtz, biot. felds arkasio SS incr arkasio SS. (Qtz, biot, felds)
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