

APT # 15-137-20602-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY <u>Baird Oil Company, LLC</u>	ELEVATION
LEASE <u>Esslinger Ranch, Inc. #1-26</u>	KB <u>2354'</u>
FIELD <u>Wildcat</u>	DF <u>2352'</u>
LOCATION <u>910' FSL + 1635' FEL</u>	GL <u>2349'</u>
SEC <u>26</u> TWSP <u>3s</u> RGE <u>22w</u>	Depths Measured From
COUNTY <u>Norton</u> STATE <u>Kansas</u>	Log <u>KB</u> Drilling <u>KB</u>
CONTRACTOR <u>UW Drilling Rig #8</u>	CASING
SPUD <u>4-12-12</u> COMP <u>4-18-12</u>	Surface <u>8 5/8" @ 254'</u>
SAMPLES SAVED FROM <u>3300'</u> TO <u>R.T.D</u>	Production <u>5 1/2" @ 3899'</u>
	ELECTRIC LOGS <u>Superior Well Services</u>

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM ft. log	A	B	C	D
				●	●		
Anhydrite	2029	2029 +	325	+ 322	+ 331		
Base Anhydrite	2058	2057 +	297	+ 292	+ 302		
Topeka	3350	3349 -	995	- 992	- 987		
Heebner	3550	3550 -	1196	- 1191	- 1184		
Taranta	3576	3576 -	1222	- 1216	- 1211		
Lansing	3591	3591 -	1237	- 1233	- 1228		
Base Kansas City	3784	3784 -	1430	- 1423	- 1414		
Marmaton	3815	3815 -	1461	- 1451	- 1443		
Quartzite	3856	3856 -	1502	- 1479	- 1463		
Granite	3870	3870 -	1516				
Total Depth	3900	3900 -	1546	- 1488	- 1483		

REFERENCE WELLS

- A Baird Oil Co. Esslinger Ranch, Inc. #3-35, 445' FNL + 2585' FNL, Sec. 35-35-22w
- B Baird Oil Co. Esslinger Ranch, Inc. #5-35, 120' FNL + 2120' FEL, Sec. 35-35-22w
- C
- D Part Collar @ 2053'

REMARKS

This well ran 4 to 9 feet lower on the Lansing top than the reference wells. It was decided production casing would be cemented to further test the well. The interval from 3847' to 3855' should be tested.

Richard R. Bell
4-18-12

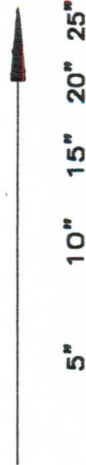
7502

LEGEND

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

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



LOG 7710

DEPTH

2020

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

Samples are logged
good samples

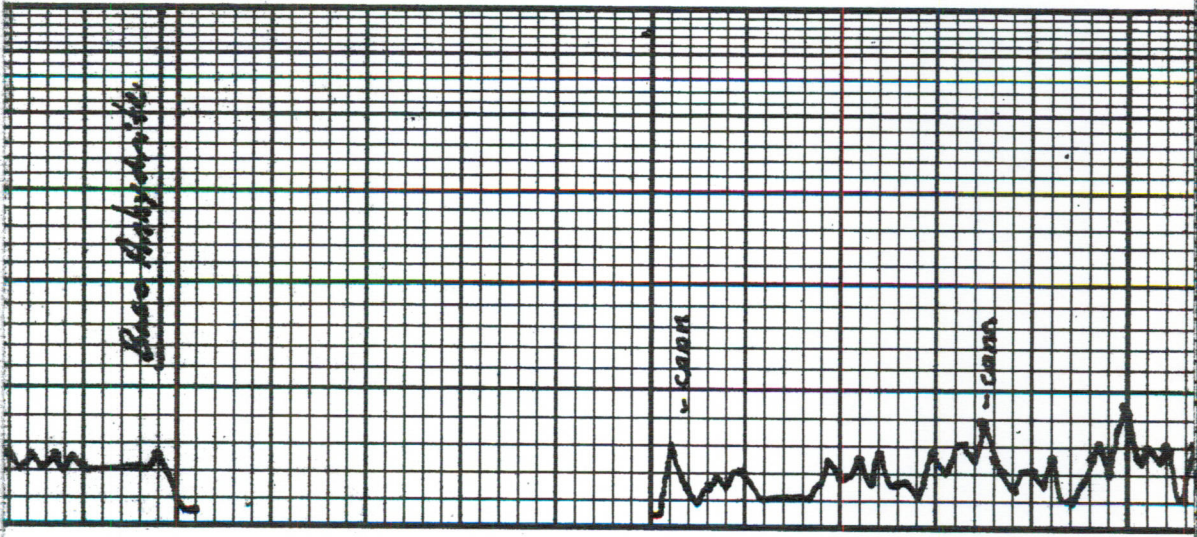


2060

3200

20

40



Base Hydroside

- CAMH

- CAMN

60

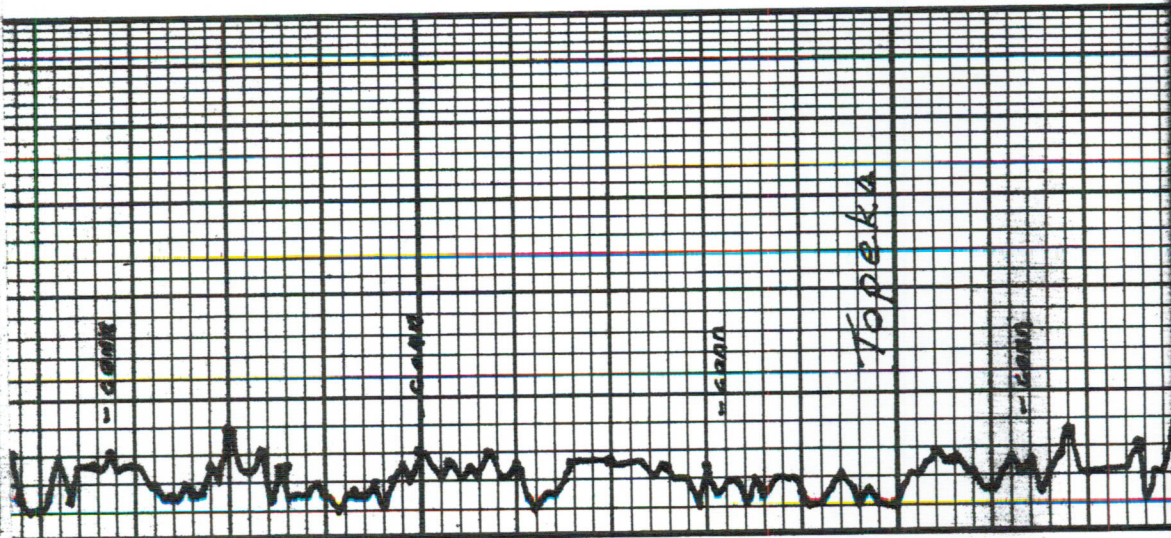
80

3300

20

40

60



Sh-gry, loc

Ls: wh-tn-gry fslf das
N.S.O.

Ls: wh-tn-cky-feln das N.S.O.

Sh-brn slty

Ls: wh-tn-cky-feln tr. sli-fslf
Tr. insla ϕ N.S.O.

Ls: wh-tn-gry-fsln das Tr
pyrite spks N.S.O.

Ls: tn-fslf das N.S.O.

Sh-brn slty

Ls: wh-tn-cky-fslf das
N.S.O. Tr Δ tn

Ls: wh-tn-cky-feln insln ϕ
N.S.O.

Ls: wh-tn-cky-fsln tr. sli-fslf
Tr. insln ϕ N.S.O.

Ls:tn-gry fsk das

Sh:brn + gry

Ls:wh:tn cky-fsln öl igort
N.S.O. Δtn

Ls: a inor. Δ wh:tn
Sh:brn, gry

Ls:wh:tn v. cky-fsln öl
pr. inprt N.S.O. Δtn

Ls:wh:tn. ~~kt gry~~ slicky-fsln
das

sh: gry, brn

inor. sh: brn stty

V-sh:brn stty

Ls:wh:tn cky-fsln sl. öl -
sub öl pr. pp N.S.O.

Sh:brn, gry

Ls:tn-gry fsk das Δtn
Fr. blk carb. sh

3400

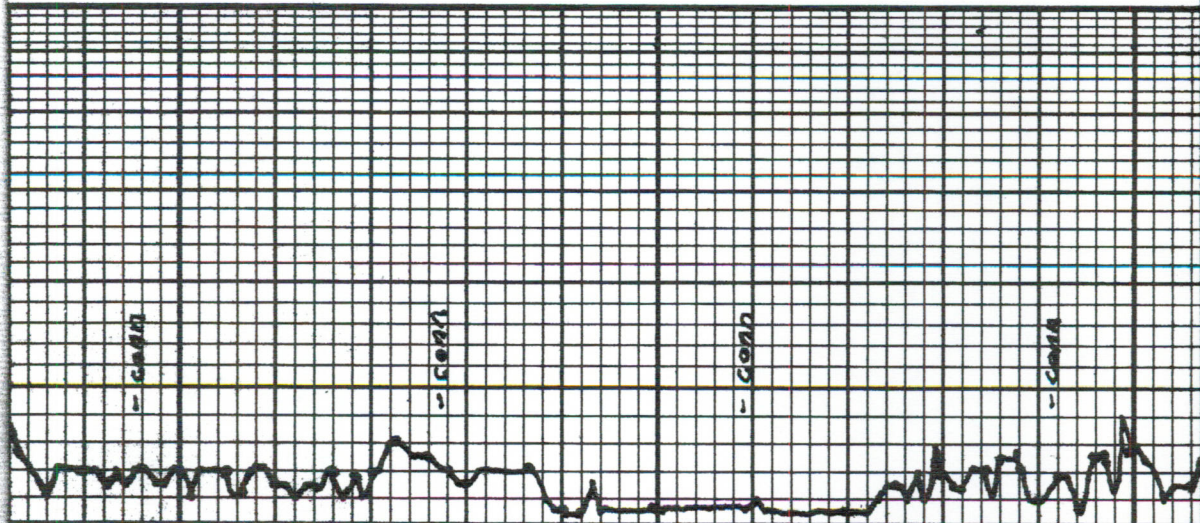
20

40

60

80

3500



LS: tr. gryfolt ans

LS: wh. tr. chy-feln ööl Stl.
pass inclus. in part of NSA

Sh: brn, grey

LS: wh. tr. chy-feln tr. ööl
Mostly feldns NSA

LS: wh. tr. wh. gry sl. chy-feln
Tr. Sl. felf dms NSA

Sh: blk Carb

Sh: grey slty
St: fine: grey

Sh: brn slty

LS: wh. tr. chy-feln Tr. fely ööl
pp of fr. vgt NSA

Sh: brn, grey

LS: wh. tr. sl. chy-feln ööl pp
R.T. M. O. sat. Lt. sptd Ostr
TIPP F.O. on crushing
ft adol

LS: wh. tr. sl. chy-feln dms

V. Sh: ly: brn slty

20

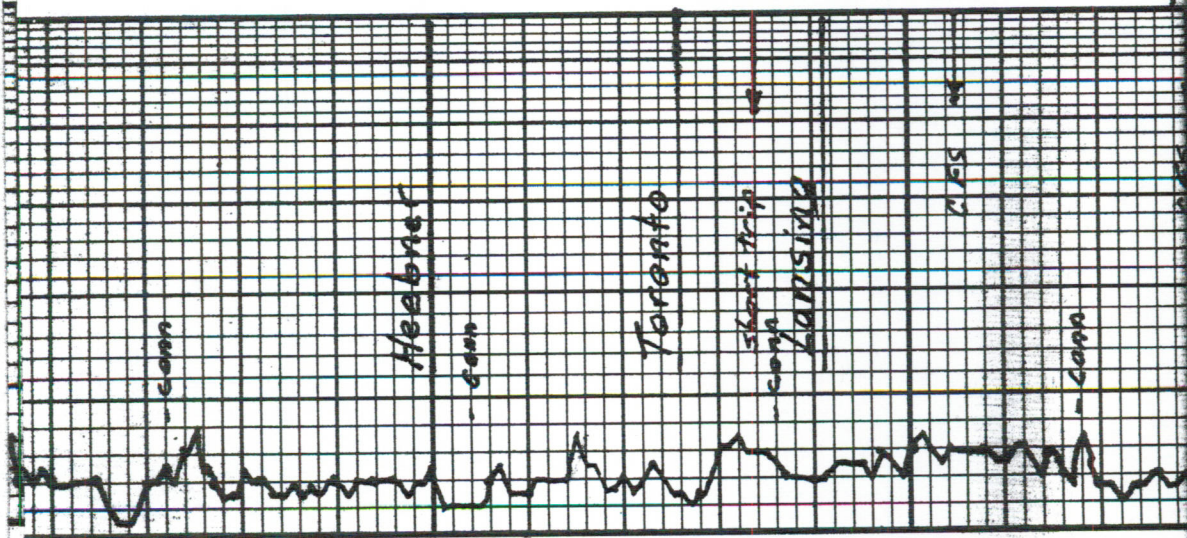
40

60

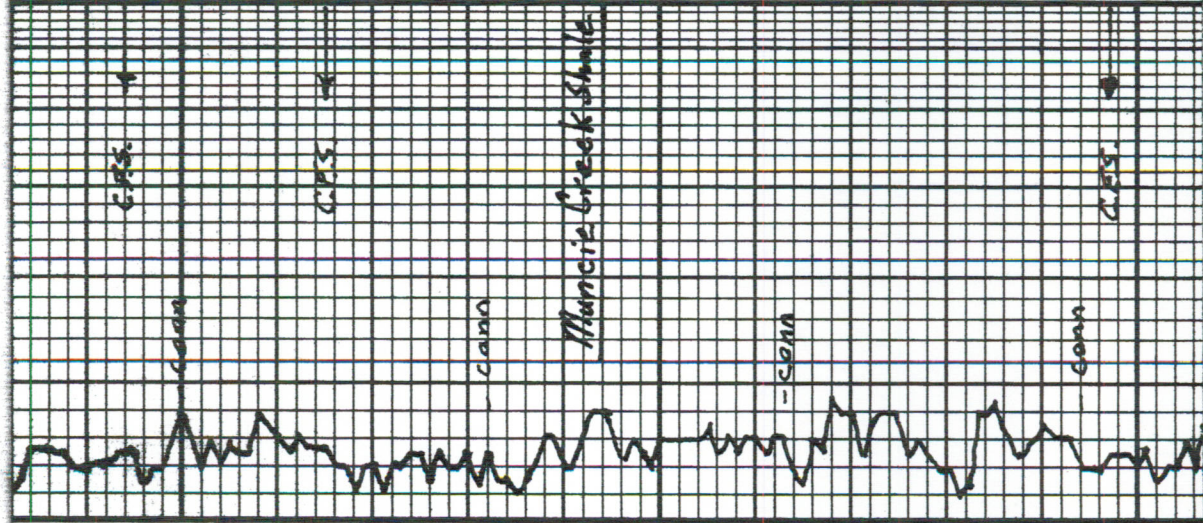
80

'A'
3600

20



DST # 1-228-3644
45-45-90-45
D. J. ...



① 40
C
D
60
E
F
80
G
3700
H
20
I
40
J



LS: wh-tr. sli. cky. fch. fslf
oal w'foss inclus lt. O. 5 at
lt. sptd a str. Tr. floatng. O.
No odor Δ gry

LS: wh-tr. ht. gry fch. dms
Sh: brn, gry

LS: wh-tr. fch. dms Tr. iso. Vugs
Tr. sptd edge. Str. N.F.O.
a.a.

LS: wh-tr. fch. oal. Tr. oalca
Sli. pyrite Tr. ht. sptd a str

Tr blk Carb. Sh.

Sh: gry sly

LS: wh-tr. ht. gry fch. dms
N.S.A

Sh: brn sly

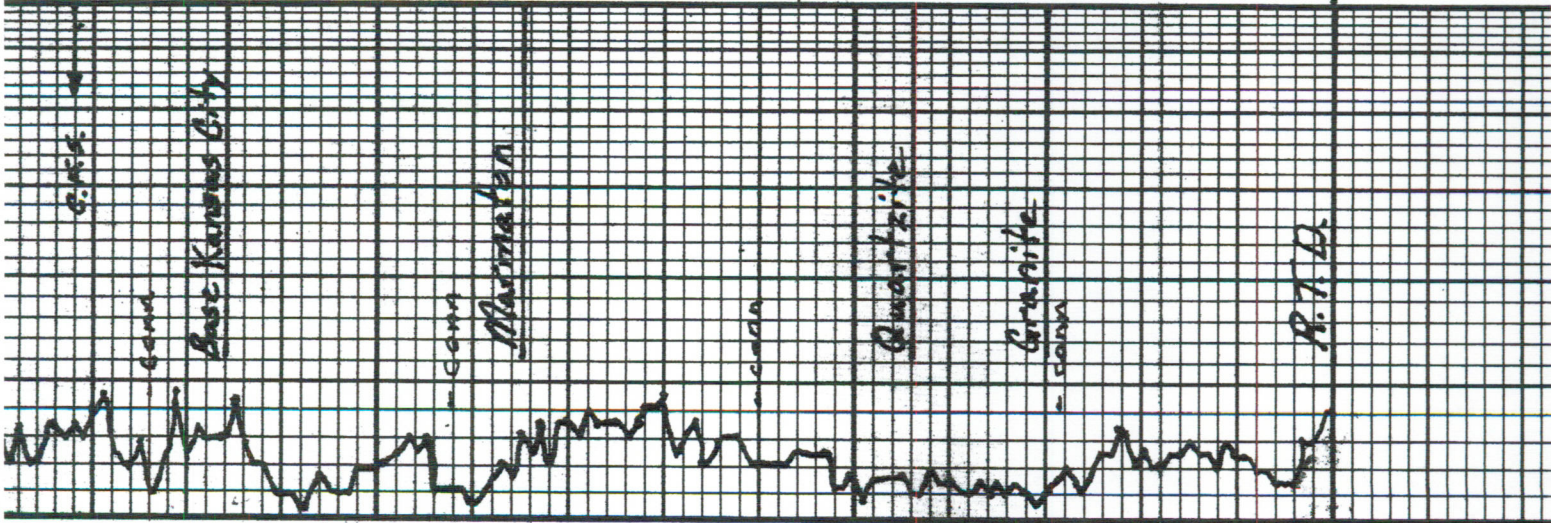
LS: tr. sli. yel fslf dms N.S.A

Sh: brn sly

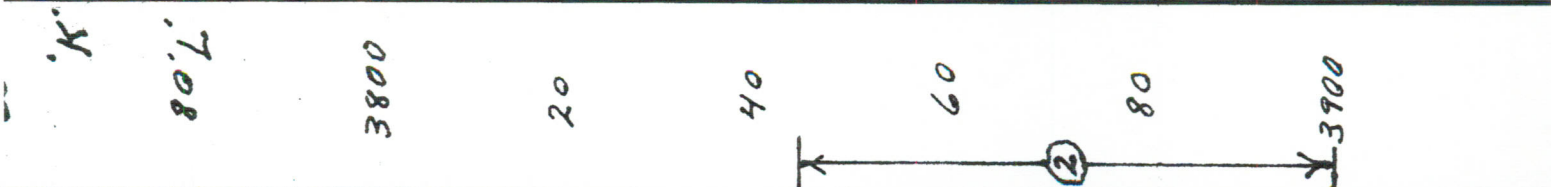
LS: wh-tr. fch. oal w'foss
includ in part of ark O. 5 at
P.F.O. No odor
sh: brn, gry

✓
✓
✓
✓
✓
✓
✓
✓

tool plugged
Inclinc 1/2 @ 3644'



Shiborn clay LS: w/ th. city-fels. das RT. sta from above?	Shiborn, grey LS: w/ th. fels. das N.S. & O.	Shiborn	LS: w/ th. sh. city-fels. das	Shiborn	LS: w/ th. sh. city-fels. das F.O. an crushing	Shiborn	LS: w/ th. sh. city-fels. prpp trasp. spn	Shiborn	LS: fels. w/ small crystals of Calcite, Tr qtz. sd embedded at thick & sat floating F.O. strong odor	Quartz, w/ biotite - spks St. fracted ang. sli. rnd	Quartz, biotite, feldspar	Quartz, biotite, feldspar
--	---	---------	-------------------------------	---------	---	---------	--	---------	---	--	---------------------------	---------------------------



DST #2 3844-3900
45-45-45-45
IF w/ blow incr. to 4 1/4"
LSI: No blow
FFI: w/ blow incr. to 5 1/2"
FSS: No blow
Recovery: 170' Total
50' C.O.
60' OCWM 30% O, Tens. W
70% M
60' OCWM 15% O, Tens. W
85% M
NFD: 1800-1875 #
FP: 47-69/76-83 #
BNP: 974-928 #
BH Temp: 96°F.
Gravity: 19° A.P.I.