

APT # 15-137-20601-00-00

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY <u>Baird Oil Company, LLC.</u>	ELEVATION
LEASE <u>Esslinger Ranch, Tract #1-22</u>	KB <u>2332'</u>
FIELD <u>Wildcat</u>	DF <u>2330'</u>
LOCATION <u>2080' E5L + 2075' FWL</u>	GL <u>2327'</u>
SEC <u>22</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>WW Drilling Rig #8</u>	CASING
SPUD <u>4-6-12</u> COMP <u>4-11-12</u>	Surface <u>898' @ 212'</u>
SAMPLES SAVED FROM <u>3260'</u> TO <u>R.T.D.</u>	Production <u>none</u>
	ELECTRIC LOGS
	<u>Superior Well Services</u>

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>to log</u>	●			
<u>Anhydrite</u>	<u>1987</u>	<u>1986</u>	<u>+ 346</u>	<u>+ 322</u>			
<u>Base Anhydrite</u>	<u>2014</u>	<u>2014</u>	<u>+ 318</u>	<u>+ 292</u>			
<u>Tapoka</u>	<u>3290</u>	<u>3290</u>	<u>- 958</u>	<u>- 992</u>			
<u>Heebner</u>	<u>3492</u>	<u>3493</u>	<u>- 1161</u>	<u>- 1192</u>			
<u>Toronto</u>	<u>3517</u>	<u>3518</u>	<u>- 1186</u>	<u>- 1216</u>			
<u>Lansing</u>	<u>3531</u>	<u>3531</u>	<u>- 1199</u>	<u>- 1233</u>			
<u>Base Kansas City</u>	<u>3722</u>	<u>3723</u>	<u>- 1391</u>	<u>- 1423</u>			
<u>Marmaton</u>	<u>3759</u>	<u>3760</u>	<u>- 1428</u>	<u>- 1451</u>			
<u>Arbuckle</u>	<u>3776</u>	<u>3776</u>	<u>- 1444</u>				
<u>Granite</u>	<u>3835</u>	<u>3837</u>	<u>- 1505</u>				
<u>Total Depth</u>	<u>3855</u>	<u>3856</u>	<u>- 1524</u>	<u>- 1498</u>			

REFERENCE WELLS

A	<u>Baird Oil Co., LLC, Esslinger Ranch, Tract #3-35, 445' E5L + 2585' FWL, Sec. 35-35-22W</u>
B	
C	
D	

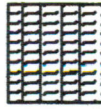
REMARKS

This well was 34 feet higher on the Lansing top than the reference well. All oil shows were drill stem tested with unfavorable results. It was decided this well should be plugged and abandoned.

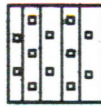
Richard B. Bell  
9-12-12

7502

LEGEND



Anhydrite



Salt



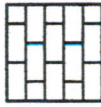
Sandstone



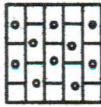
Shale



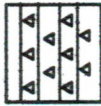
Carb sh



Limestone



Ool. Lime



Chert



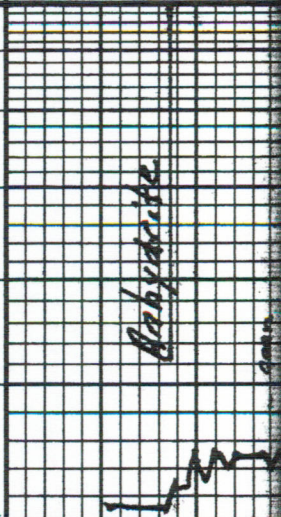
Dolomite

DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration Decreases



5" 10" 15" 20" 25"



1980

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710



60

80

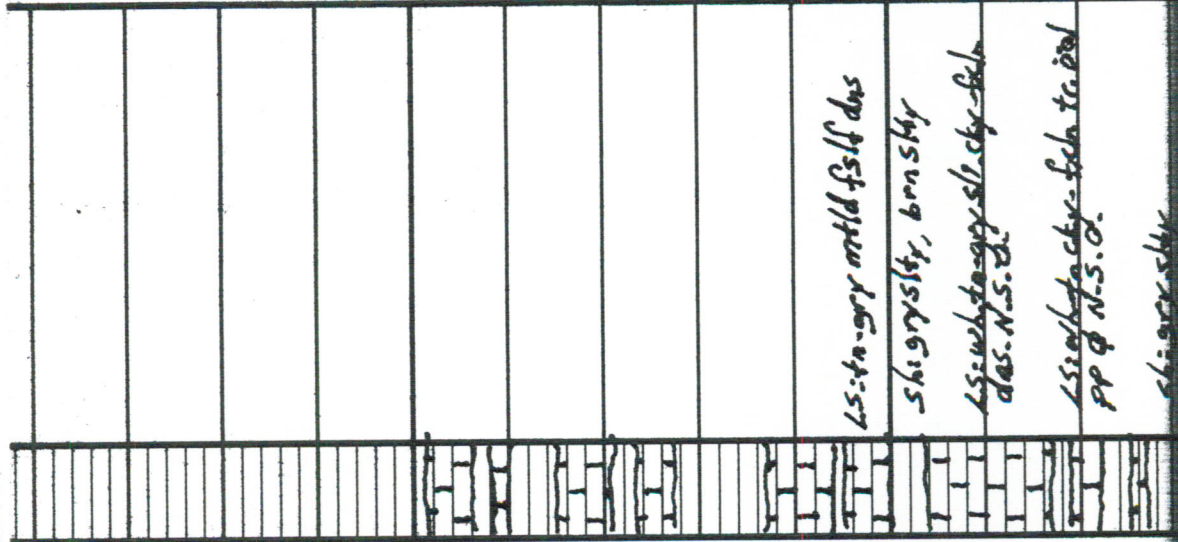
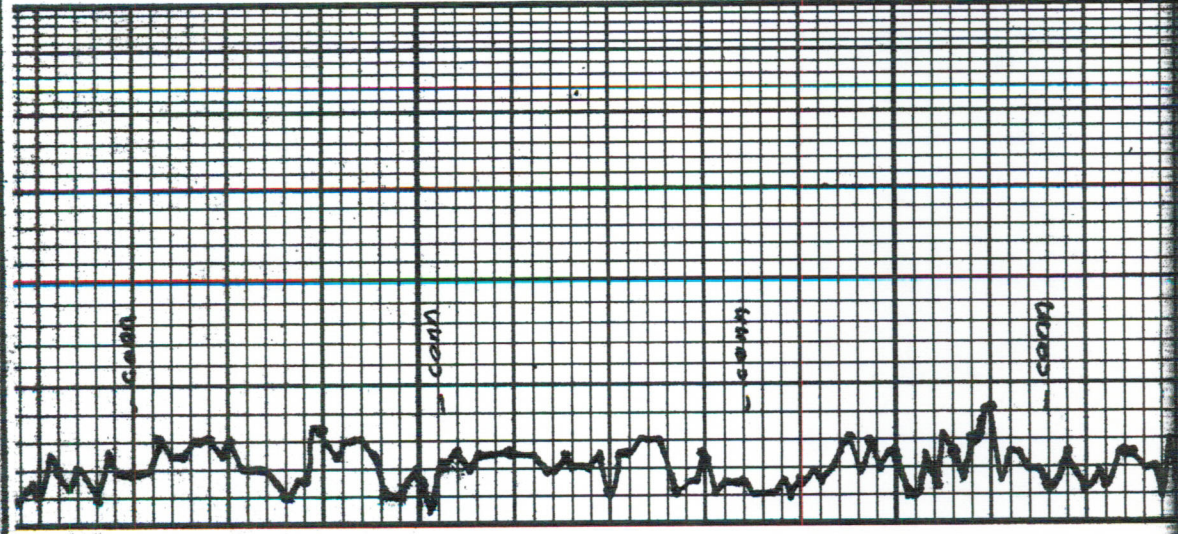
3200

20

40

60

80



LS: ta-gry mtd fslf dms

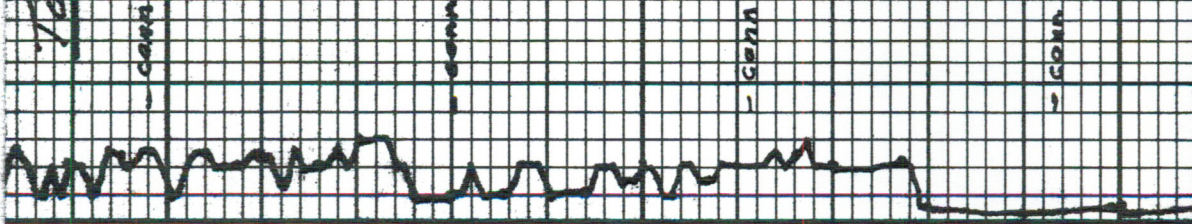
shigrystr, brn str

LS: wh-sta-gry slr chr fsh  
das. N.S. D.

LS: wh-sta-chr-fsh tr. ed  
PP & N.S. D.

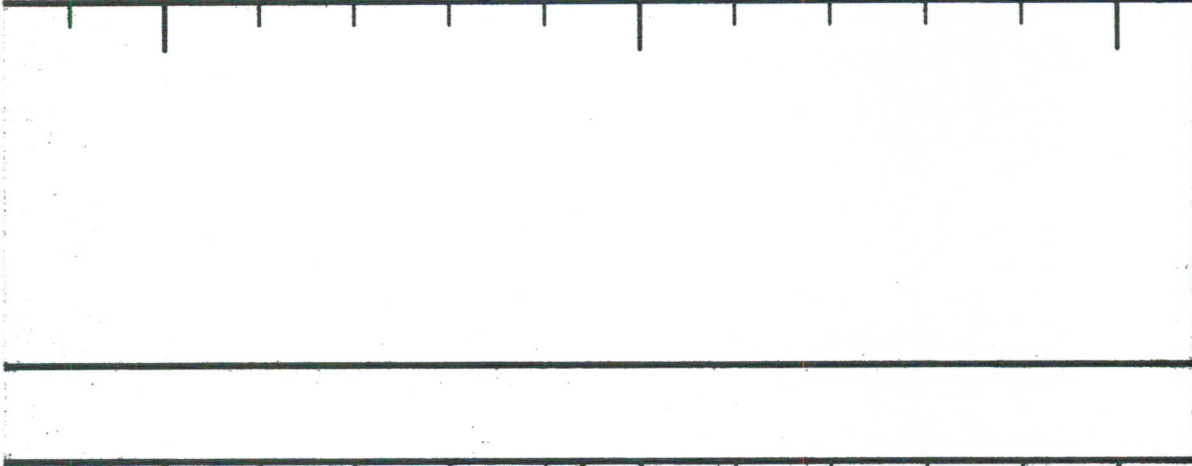
shigrystr

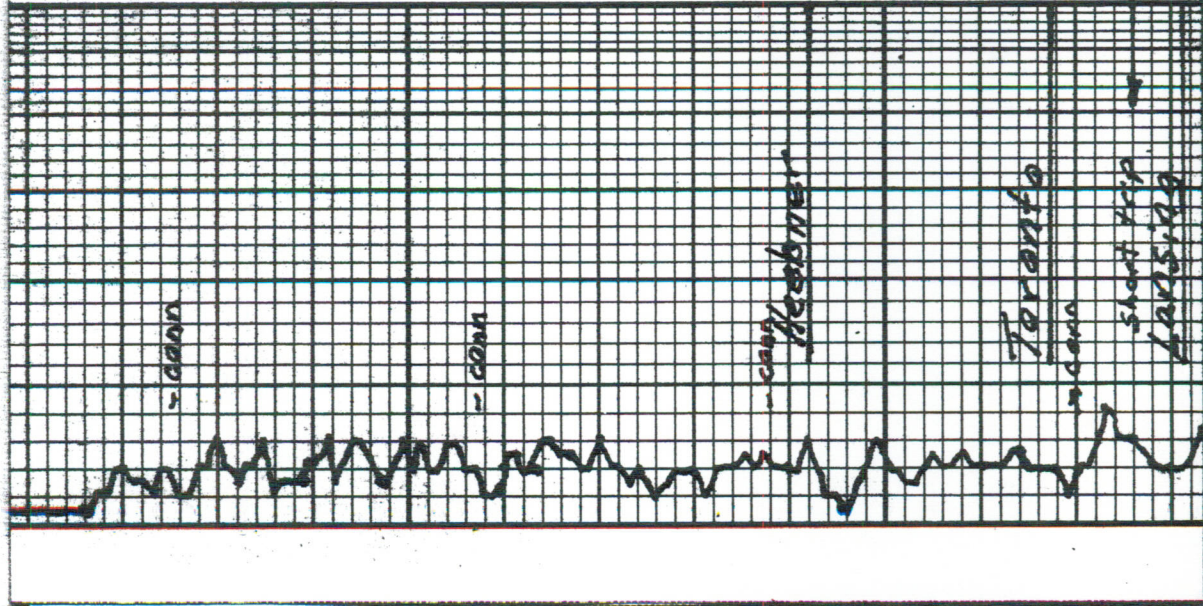
Terephthal



3300  
20  
40  
60  
80  
3400

Shibren slty	LS: wh- to- yel chy- fahn vs: Bst pr. PP @ N.S.O.
	LS: wh- to- chy- fahn Ts: slt. ool pr. PP @ N.S.O.
	LS: a a
	Sh: brn, gry
	LS: wh- to- chy- slt- sue- fahn Ts: slt. ool PP @ N.S.O.
	LS: wh- to- gry chy- fahn ool in part @ N.S.O.
	LS: to- gry fahn das
	Sh: stone: to, gry, brn





20	LS: wh-to cty-faln ool impact P N.S.O.
40	Sh: brn, gry LS: wh-to cty-faln ool PP P N.S.O.
60	LS: wh-to cty-faln ool N.S.O. sh: gry, brn
80	LS: wh-to cty-faln-sli-fs/f Pr-PP P N.S.O.
3500	Sh: Blk Carb. LS: to sli-fs/f das Sh: brn silty, gry
20	LS: wh-to cty-faln ool N.S.O. P A vel-or Sh: brn

Strap 3584.72

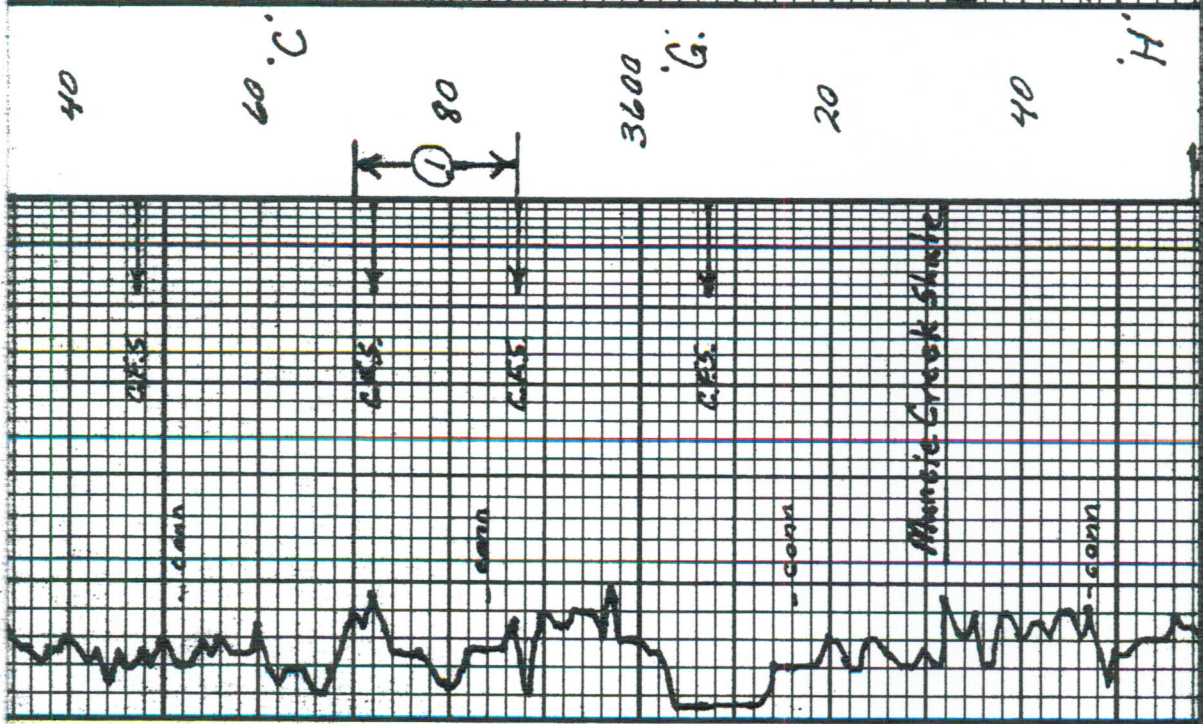
Board 3584.17  
 Diff. .53  
 Incline @ 3587. 3/4°

Trilobite Testing

DST #1 3570-3587  
 30-30-0-0  
 IF: wt blow died in 5 min  
 Recovery: 5' Mud  
 Hyd: 1870-1771#  
 F.P.: 9-12#  
 BHP: 25#  
 BH Temp: 91°F.

DST #2 3668-3672  
 30-30-0-0  
 IF: wt blow died in 3 min.

ls: wh to cky - fine to med ool ppφ N.S. 0 No cut A Δ wt	sh: ly: brn, gry	ls: wh to cky - fine to med N.S. 0. No cut A Δ wt - tr-or	sh: brn stky	ls: wh to cky - fine to med F.V. 1/2 φ R. in bow S.O. - 1/4" thick bleeding F.O. No odor Tr. a sph sp. 5. A. gry	sh: brn	ls: to oolc. oolc φ No show No cut	ls: to - gry fine dns	ls: to - lt. gry fine dns. A f. 1/2 sh: blk carb.	sh: brn, lt. gry stky	ls: wh to cky - fine to med in part φ N.S. 0. mostly dns.
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Munroe Creek Shale

Recovery: 5' Mud  
 MID: 1894-1817#  
 FP: 12-13#  
 BMP: 18#  
 BNTemp: 93°F

sh:brn	LS: sh-yel fslf dns	sh:brn, gry	LS: wh-to fsln oöl ppø Tr. vgy ø. Reibhoy. S.O. ø. f.a. It. Ø sat No other	sh:brn	LS: wh-tocky-fsln R.T. pr. ppø N.S.O.	sh:brn, slty.	LS: wh-tocky-fsln pr. ppø N.S.O.	sh:brn, lav.	LS: sh-fslf dns	sh:brn slty	LS: whit-lav-brn fsln dns N.S.O.	Dol: sh fsln-mxn inxlng- vgy ø N.S.O. No cut ø/lanc. saks
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