

APR 15-137-20612-00-00

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.  
LEASE Jacobson # 1-25  
FIELD \_\_\_\_\_  
LOCATION 2145' FSL & 480' FWL  
SEC 25 TWSP 3S RGE 22W  
COUNTY Norton STATE Kansas

ELEVATION  
KB 2344'  
DF 2342'  
GL 2339'  
Depths Measured From  
Log KB Drilling KB

CONTRACTOR WW Drilling Rig # 8  
SPUD 8-30-12 COMP 9-7-12  
SAMPLES SAVED FROM 3300 TO B.T.D.

CASING  
Surface 8-59" @ 259'  
Production 5-50" @ 3917'

ELECTRIC LOGS  
Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>2.100</u>				
<u>Anhydrite</u>	<u>2031</u>	<u>2032</u>	<u>+</u>	<u>312</u>	<u>+ 325</u>	<u>+ 315</u>	
<u>Base Anhydrite</u>	<u>2060</u>	<u>2060</u>	<u>+</u>	<u>284</u>	<u>+ 297</u>	<u>+ 288</u>	
<u>Tapeka</u>	<u>3348</u>	<u>3348</u>	<u>-</u>	<u>1004</u>	<u>- 995</u>	<u>- 999</u>	
<u>Heebner</u>	<u>3548</u>	<u>3548</u>	<u>-</u>	<u>1204</u>	<u>- 1196</u>	<u>- 1199</u>	
<u>Taranta</u>	<u>3574</u>	<u>3574</u>	<u>-</u>	<u>1230</u>	<u>- 1222</u>	<u>- 1225</u>	
<u>Lansing</u>	<u>3590</u>	<u>3589</u>	<u>-</u>	<u>1245</u>	<u>- 1237</u>	<u>- 1241</u>	
<u>Base Kansas City</u>	<u>3780</u>	<u>3779</u>	<u>-</u>	<u>1435</u>	<u>- 1430</u>	<u>- 1430</u>	
<u>Marmaton</u>	<u>3807</u>	<u>3804</u>	<u>-</u>	<u>1461</u>	<u>- 1461</u>	<u>- 1457</u>	
<u>Granite</u>	<u>3879</u>	<u>3878</u>	<u>-</u>	<u>1524</u>	<u>- 1516</u>	<u>- 1529</u>	
<u>Total Depth</u>	<u>3920</u>	<u>3993</u>	<u>-</u>	<u>1549</u>	<u>- 1546</u>	<u>- 1554</u>	

REFERENCE WELLS

- A Baird Oil Co. LLC, Kisslinger Ranch, Tract # 1-26, 910' FSL & 1135' FWL Sec 26-35-22W  
B Baird Oil Co. LLC, Kisslinger Ranch, Tract # 2-26, 2265' FSL & 330' FWL Sec 26-35-22W  
C \_\_\_\_\_  
D Port Collar @ 2030'

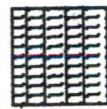
REMARKS

This well ran 4 to 8 feet lower on the casing top than the reference wells. Results on DST #7 encouraged cementing of production casing to further test the well. Good sample shows from 385' to 387' have low resistivity and were tested. They could be perforated and tested again. The following zones should be tested; 3805'-3813' 3663'-3669'.

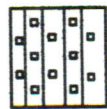
Richard B. Bell  
9-7-12

7502

LEGEND



Anhydrite



Salt



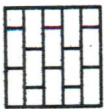
Sandstone



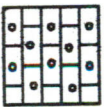
Shale



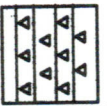
Carb sh



Limestone



Ool. Lime



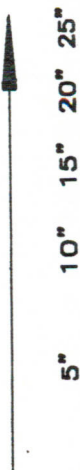
Chert



Dolomite

DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration Decreases



2020

40

LITHOLOGY

SAMPLE DESCRIPTIONS

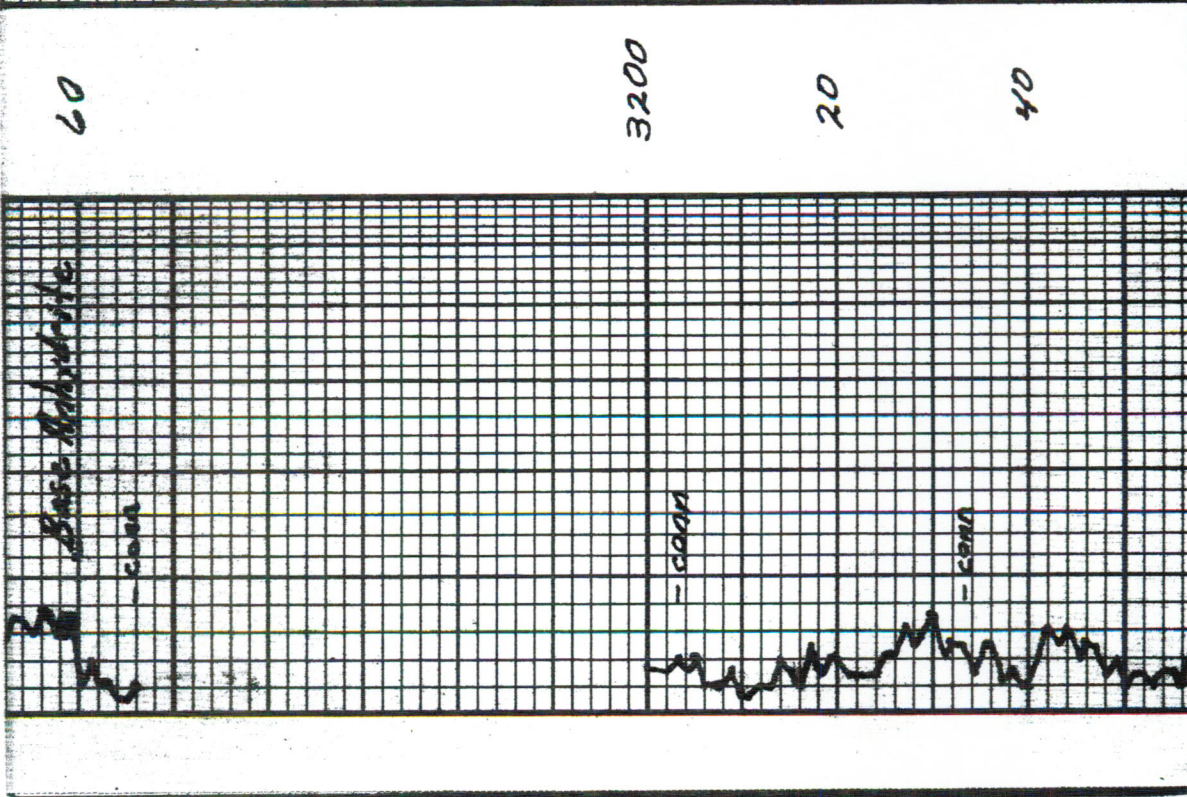
OIL SHOWS

REMARKS

LOG 7710

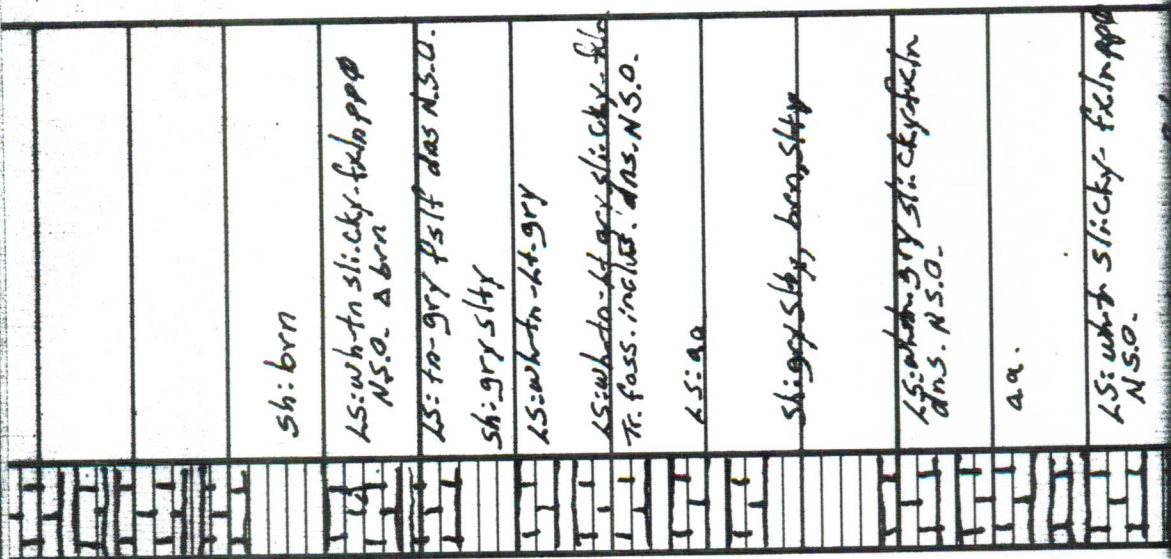
60 3200 20 40

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Samples are lagged

Good Samples



60

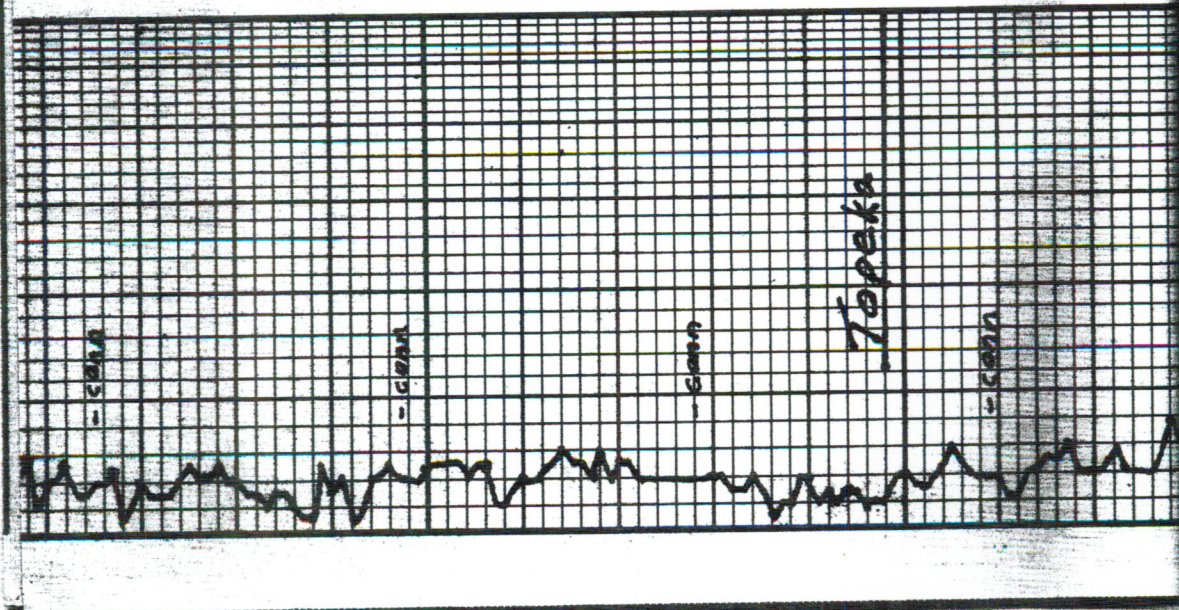
80

3300

20

40

60



Topeka

- Elev

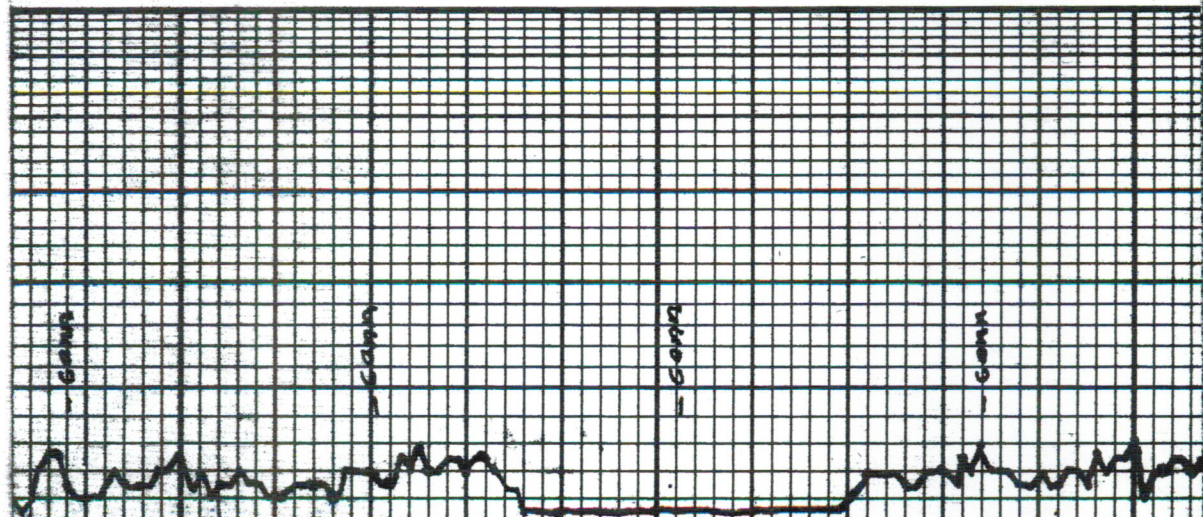
- Elev

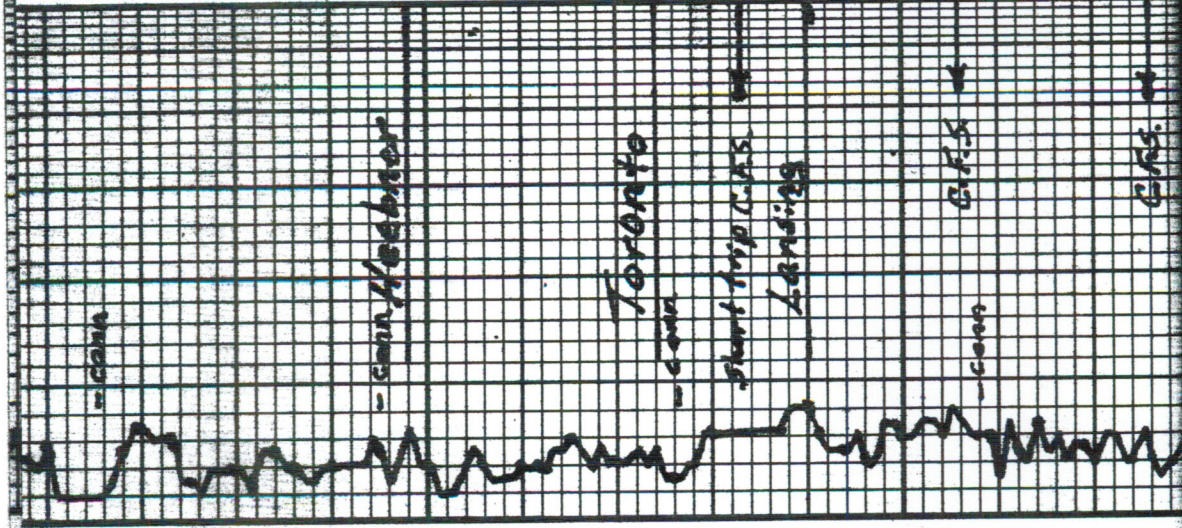
- Elev

- Elev

pp φ N.S.D.	sh-brn slty, gry slty
LS: wh. to - lt. gry v. cky - fcln oil w/ fass. - incl. us. pp φ - in part φ friable N.S.D.	
LS: wh. to - lt. gry sl. cky - fcln das Tr Δ tr	
Sh: gry, brn Tr SS v. fr. gn consol. in grand N.S.D.	
SS. a.a. incr Sh: brn slty	
V. slty: brn slty	
LS: wh. to cky - fcln oil pp φ N.S.D.	
LS: wh. to - lt. gry cky - fcln oil lot fass. - incl. us. pp φ Sh: brn, gry, Tr blk sand. LS: wh. to - brn cky - fcln incl. us.	

3400  
20  
40  
60  
80  
3500

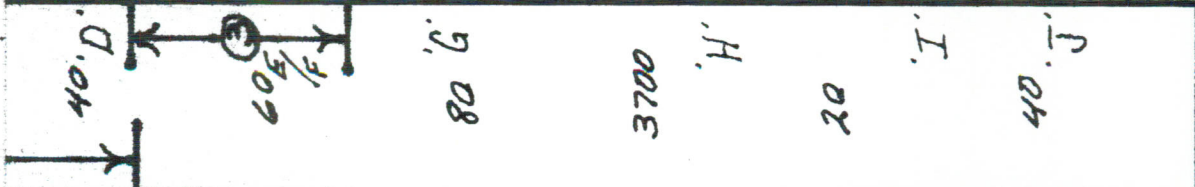
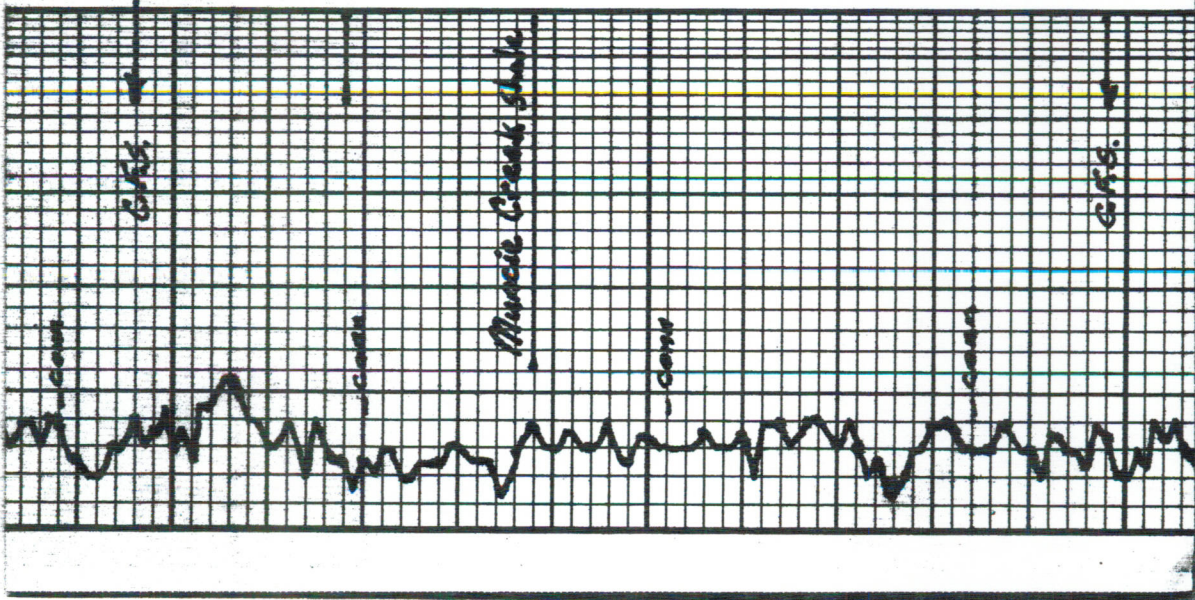




20  
40  
60  
80  
3600  
20. C

ms.v.	LS: wh-tn cky-fxln ool gd. in part φ NSO	LS: wh-tn cky-fxln ool in part φ NSO	a.e. mostly dns	Sh: Btk carb- LS: tn-gry fsif dns	Sh: gry slty, brn	LS: wh-tn cky-fxln ool friable pp φ NSO-Δ tr	Sh: brn slty	LS: wh-tn cky-fxln ool pxitic pr. pp φ - Tr: in part φ Lt. Spd osh. Tr: pp floating F.O. fr. odor	Sh: brn, gry, grn	LS: wh-tn fsif pp φ Lt. Osh Δ wh-tr. Tr: pp F.O. no odor
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strap 3611.80'  
Board 3608.83'  
Diff. 2.97'  
Incline @ 3606' 3/4°  
Trilobite Testing  
DST #1 3582-3606'  
30-30-0-0  
IF: No blow, flush tool  
No blow  
Recovery: 5' OSM  
HYD: 1806-1765#  
FP: 18-20#  
BHP: 79#  
DST #2 3606-3646'  
45-45-45-45  
IF: B.O.B. in 21 min.  
FSI: wk blow in cr. to 14"  
FF: B.O.B. in 27 min.  
FSI: No blow  
Recovery: 44.5' Total  
10' OSM W 70% U, 30% M



LS: wh to cky-fch. oil pp Fr. vgy & abund. fr. O.S.H. pp floating. F.O. fr. odor Δ wh. bk. gry	Sh: gry, grn
LS: wh to ht. gry fch n dns LS: wh to v. cky-fch. sli oil Fr. scat vgy & ht. fr. sptd Str. 12 pp F.O. fr. odor Δ v. gry	
LS: wh to fch. spl. pcs oil ht. str. F.O. no odor mostly dns	
Tr. Blk Carb. Sh	
Shly gry sty	
LS: wh to cky-fch. Tr. sub oil pp also	
Sh: brn	
Tr. ls to ggy fch dns	
v. shly ht. brn sty, drk brn sty	
LS: wh to v. cky-fch R.T. sli. oil drk brn edge str Tr. pp F.O. no odor	
Sh: brn sty, gry sty	

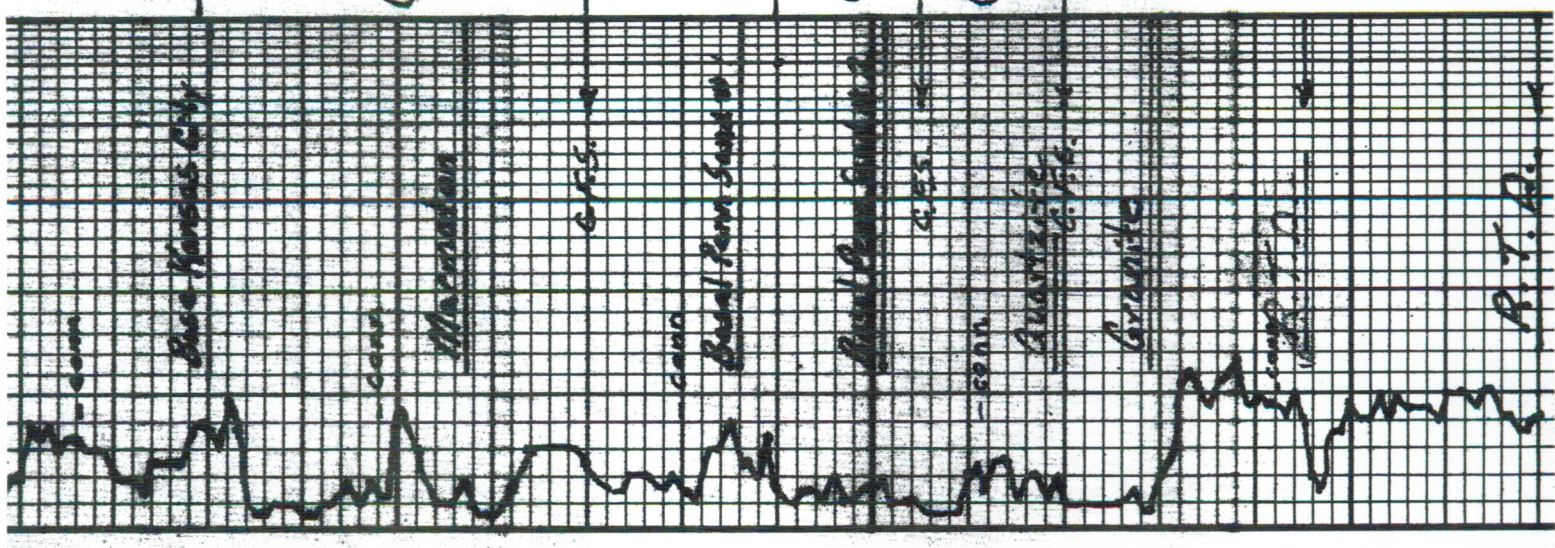
183' MW 95% w 5% m  
HYD: 1828-1806#  
FP: 23-148/164-243#  
BHP: 1175-1233#  
BHTemp: 98°F.  
Chlorides: 73,000 ppm

DST#3. 3645'-3668'  
30-30-30-30  
IF: wk blowier. to 1/8"  
FF: No blow  
Recovery: 60.05M  
HYD: 1838-1805#  
FP: 18-34/36-49#  
BHP: 1181-1172#  
BHTemp: 95°F.

DST#4 3779-3820'  
15-45-30-45  
IF: B.O.B. in 3min.  
ISI: No blow  
FF: B.O.B. in 5min.  
FSI: No blow  
Recovery: 655' Total  
1' C.O.  
154' OCMW 1020, 402W  
189' OCMW 520, 802W  
15% m  
189' OCMW 292, 120,  
60% w, 102M  
120' OCMW 220, 932W  
5% m

HYD: 1910-1839#  
FP: 131-183/247-331#  
BHP: 1068-995#  
BHTemp: 99°F.

DST#5 3840-3855'  
30-30-30-30



	L.S. wh. lt. gry, brn fcln drk Tr. glauc. spcs. N.S.O.	
	L.S. wh. lt. cky-fcln Tr. sl. 4 wh - gry	
	Tr. S.S. v. fn. gn. consol. in gran. & N.S.O.	
	V. shly: brn	
	L.S. wh. fcln oil sl. S.S. in part to drk O. Sat. Thick drk brn F.O. ff. odor	
	Shly: brn, gry	
	L.S. wh. lt. gry. sl. cky-fcln drk S.S. wh. v. fn. gn. consol. in gran. & F.O. Sat. O. Sat. Tr. fcln drk. F.O. lot of barren	
	L.S. a	
	S.S. wh. gry. fn. md. gn. consol. abun. drk O. Sat. bleedng F.O. Str. odor	
	S.S. wh. - cr. fn. md. gn. consol. cr. frost. rnd. sub rnd. trace spks. deor. str. lot of barren	
	Tr. Quartzite w/ drk O. Sh. floatng F.O.	
	Quartz, biotite - feldspar	
	Trashy, Tr. Quartz,	
	biotite, feldspar	
	atz, biot, felds	

FF: No blow  
 Recovery: 10' 0.5M  
 Hyd: 1931-1880#  
 FP: 22-28/30-35#  
 BHP: 731-562#  
 BH Temp: 98°F.

DST# 6 3855-3870'  
 30-30-0-0  
 FF: wk. blow. in 3 min  
 Recovery: 5' 0.5M  
 Hyd: 1943-1899#  
 FP: 21-44#  
 BHP: 1026#  
 BH Temp: 96°F.

Straddle Test  
 DST # 7 3805-3814'  
 45-45-45-45  
 FF: wk blow incr. to 8 1/4"  
 ISI: wk blow incr. to 2"  
 FF: wk blow incr. to 7 1/8"  
 FSI: surface blow after 35 min  
 Recovery: 180' Total  
 120' C.O.  
 60' OC MW 30% M  
 40% W 30% M  
 Hyd: 1933-1878#  
 FP: 25-68/80-92#  
 BHP: 919-977#  
 BH Temp: 95°F.  
 Gravity: 18° A.P.I.

Original T.D. 3895'  
 Drilled to 3920' after logging.