

API# 15-065-24042-00-00

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, LLC.  
 LEASE David Worcester # 2-24  
 FIELD Wildcat  
 LOCATION 900' ENL + 2195' FEL  
 SEC 24 TWP 7s RGE 22W  
 COUNTY Graham STATE Kansas

ELEVATION  
 KB 2163'  
 DF 2161'  
 GL 2155'  
 Depths Measured From  
 Log KB Drilling KB

CONTRACTOR WW Drilling Rig #12  
 SPUD 5-19-14 COMP 5-25-14  
 SAMPLES SAVED FROM 3100' TO R.T.D.

CASING  
 Surface 8 5/8" @ 221'  
 Production 5 1/2" @ 3772'

ELECTRIC LOGS  
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
				•			
Anhydrite	1783	1781	+ 382	+ 392			
Base Anhydrite	1816	1812	+ 351	+ 362			
Topeka	3157	3154	- 991	- 985			
Heebner	3367	3363	- 1200	- 1195			
Toronto	3388	3385	- 1222	- 1216			
Lansing	3402	3399	- 1236	- 1231			
Base Kansas City	3591	3588	- 1425	- 1419			
Arbuckle	3684	3681	- 1518	- 1522			
Total Depth	3729	3727	- 1564	- 1535			
T.D. after logging	3780						

REFERENCE WELLS

A Baird Oil Co.; David Worcester #1-24, 1880' ENL + 1360' FEL Sec. 24-7s-22W  
 B  
 C  
 D Part Collar @ 1790'



REMARKS

This well ran 5 feet lower on the Lansing top and 4 feet higher on the Arbuckle top than the reference well. Encouraging D.S.T. results warranted the cementing of production casing to further test the well. The following zones should be tested; 3695-3706, 3681-3686 and 3472-3478

Richard B. Ball  
5-25-14

7502

LEGEND

- Anhydrite  

- Salt  

- Sandstone  

- Shale  

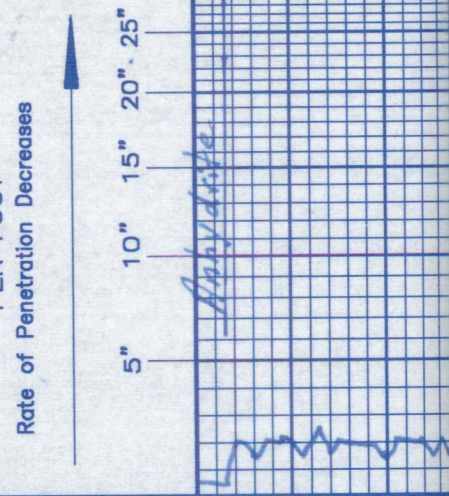
- Carb sh  

- Limestone  

- Ool. Lime  

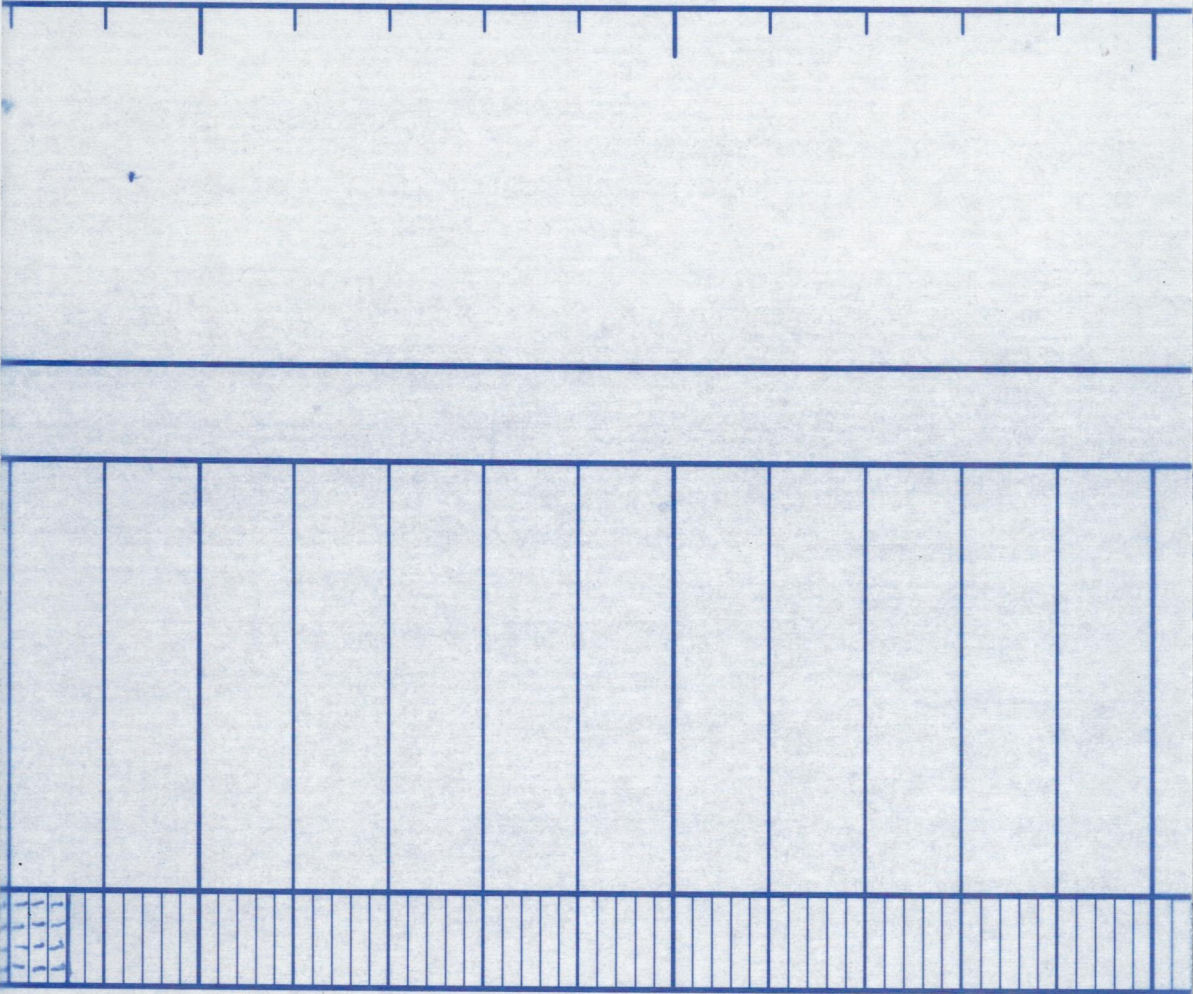
- Chert  

- Dolomite  


DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
<p>DRILLING TIME IN MINUTES PER FOOT</p> <p>Rate of Penetration Decreases</p> 	<p>1780</p> <p>1800</p>		
		OIL SHOWS	

LOG 7710



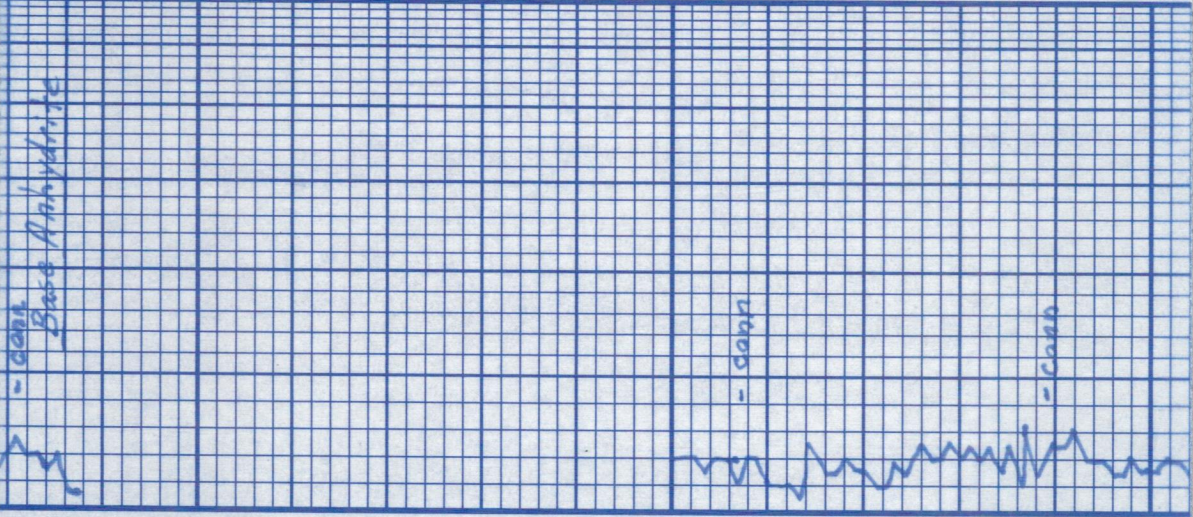


1820

3000

20

40

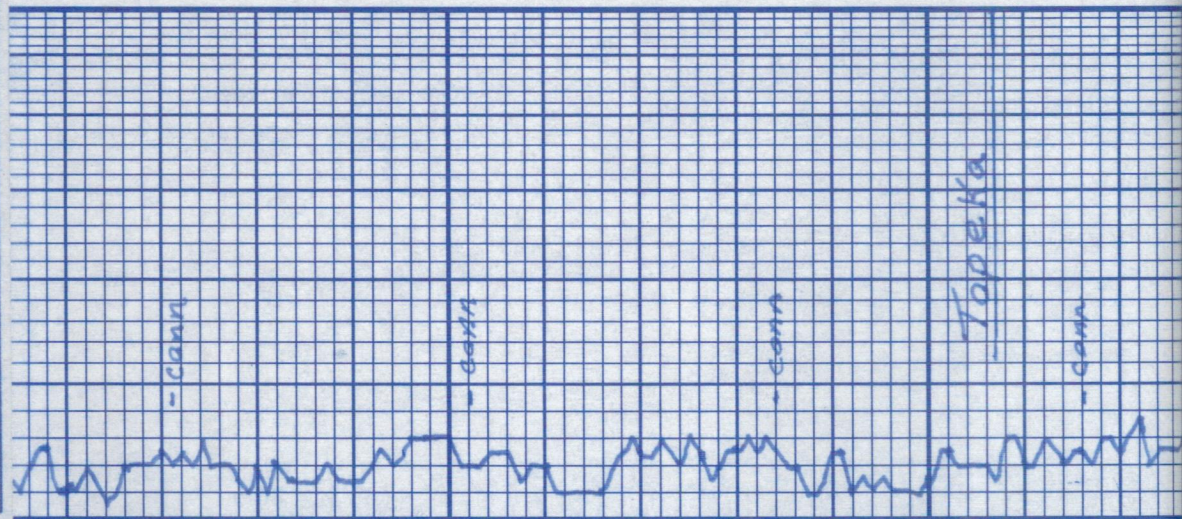


-cont.  
Base Anhydrite

-cont.

-cont.





60

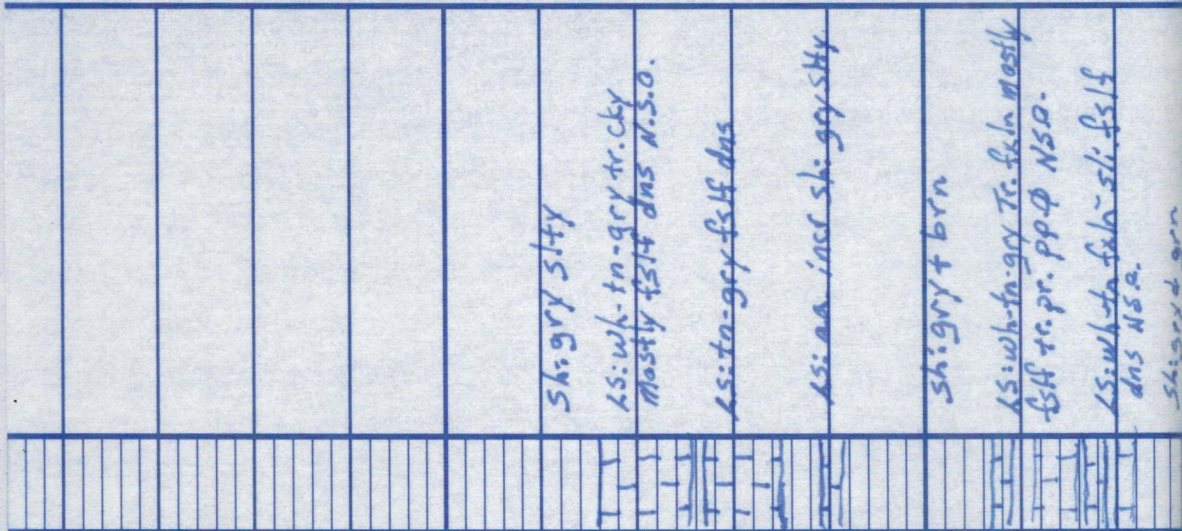
80

3100

20

40

60



sh. gry sity

ls: wk. tn - gry tr.cky  
Mostly flint dms N.S.O.

ls: tn - gry flint dms

ls: aa. iacc sh. gry sity

sh. gry t brn

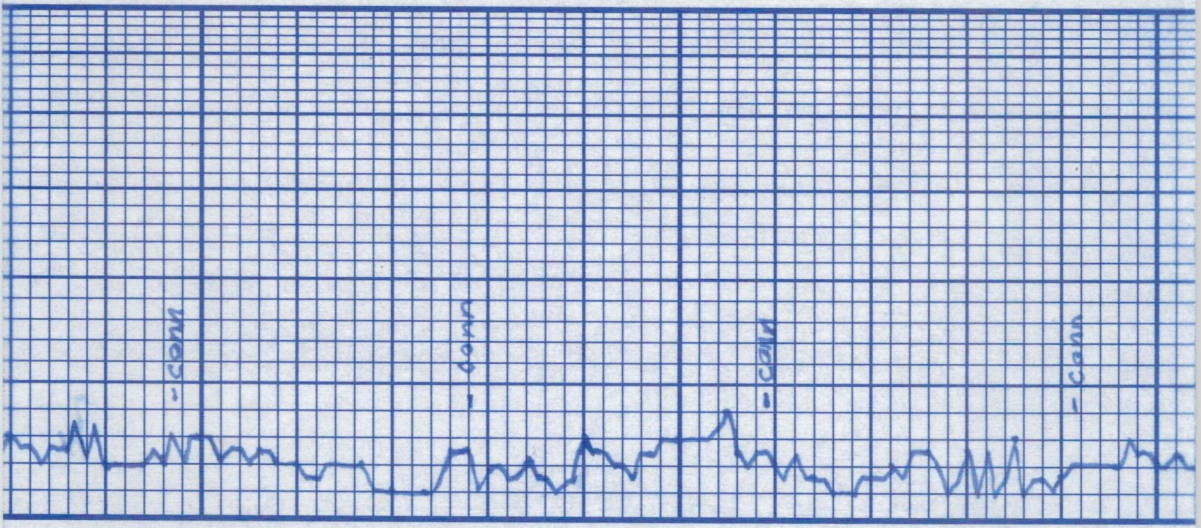
ls: wh. tn - gry tr. flint mostly  
sh tr. pr. pp φ NSA.

ls: wh. tn. flint sh. flint  
dms NSA.

sh. gry d. orn

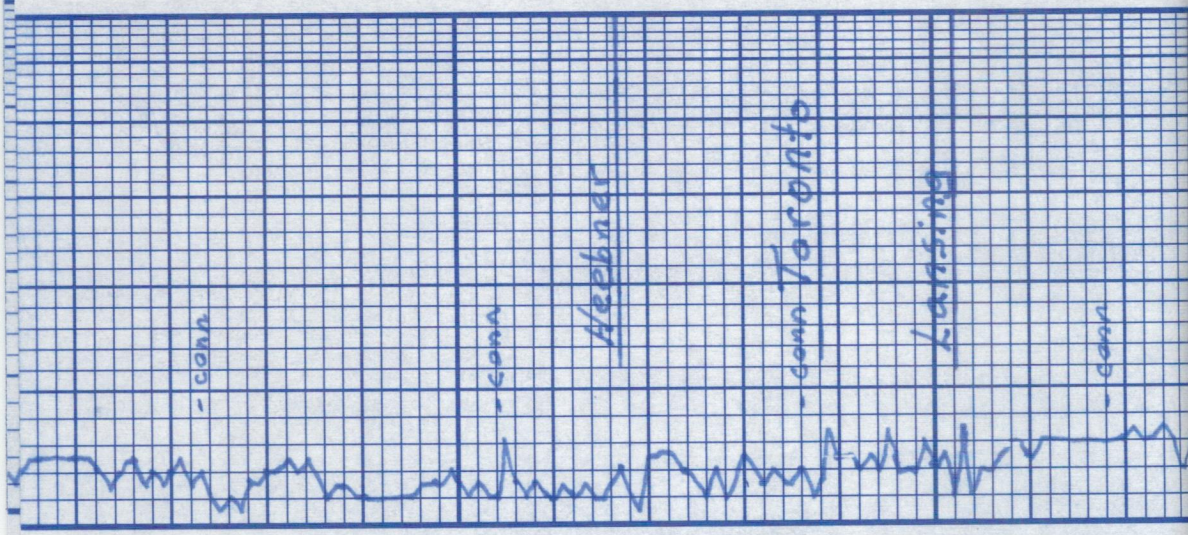
Samples are lagged  
good samples





80	-conn	LS: tn-gry fslf das
3200	-conn	LS: whn sli-cky-fsff das shi-brn
20	-conn	LS: whn-tn-cky-feln-sli-fsff pp φ N.S.O. LS: a-a Δ x whn-tn-ky-gry
40	-conn	LS: gry fsff das LS: whn-tn-cky-fsff pp φ in part φ N.S.O. Δ whn-tn
60	-conn	LS: whn-tn-feln das N.S.O. LS: tn-hi-gry mtld fsff das Shi: blk Carb
80	-conn	Shi: gry t-brn Tr. 55 gry V. fn gn. Consol. in part φ N.S.O. shi: brn Sity
3300	-conn	LS: whn-tn-feln-sli-fsff pp φ N.S.O. in part-cky shi: gry t-brn





LS: tn - lt. gry tn - sli: sli dns	LS: tn - gry fs/f dns	LS: tn - lt. gry tn - sli: sli dns
LS: tn fs/f ppφ - in part φ N.S.O. Δ tn	LS: wh-tn fxl - sli: fs/f sli: ool w/ abunt foss incl ppφ - in part φ N.S.O. Δ wh-tn	LS: wh-tn fxl - sli: sli dns Δ tn - lt. gry
LS: wh-tn fs/f Tr. Vgy φ N.S.O. Δ wh-tn sh: brn & gry	Sh: blk Carb LS: tn - gry mtd fs/f dns	LS: wh-tn fxl - sli: fs/f dns N.S.O. Tr Δ wh fs/f incr Δ wh-tn
Sh: brn, gry, grn	LS: wh-tn fxl sli: ool gd ppφ N.S.O. Δ wh-tn	LS: wh-tn fxl dns
		LS: gry fs/f dns

Vis. dropped from heavy rainfall poor samples for 4 samples

Board 3479.70  
Strap 3478.92  
Diff .78  
Incline @ 3460' 4°

Trilobite Testing  
DST #1 3440-3460

20

40

60

80

3400

'A'

20

-conn

-conn

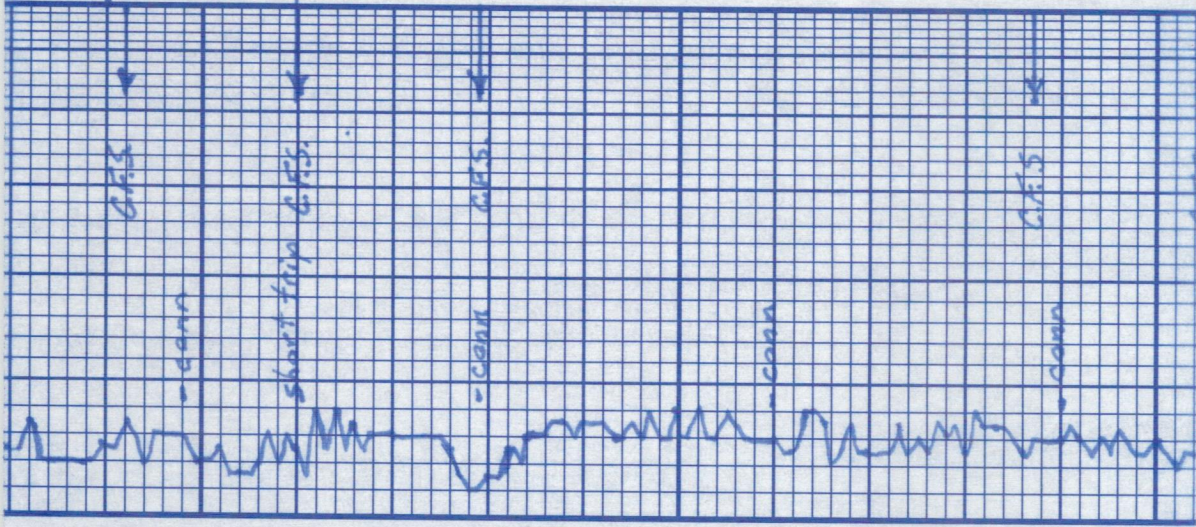
Heebner

-conn Toronto

Laussing

-conn

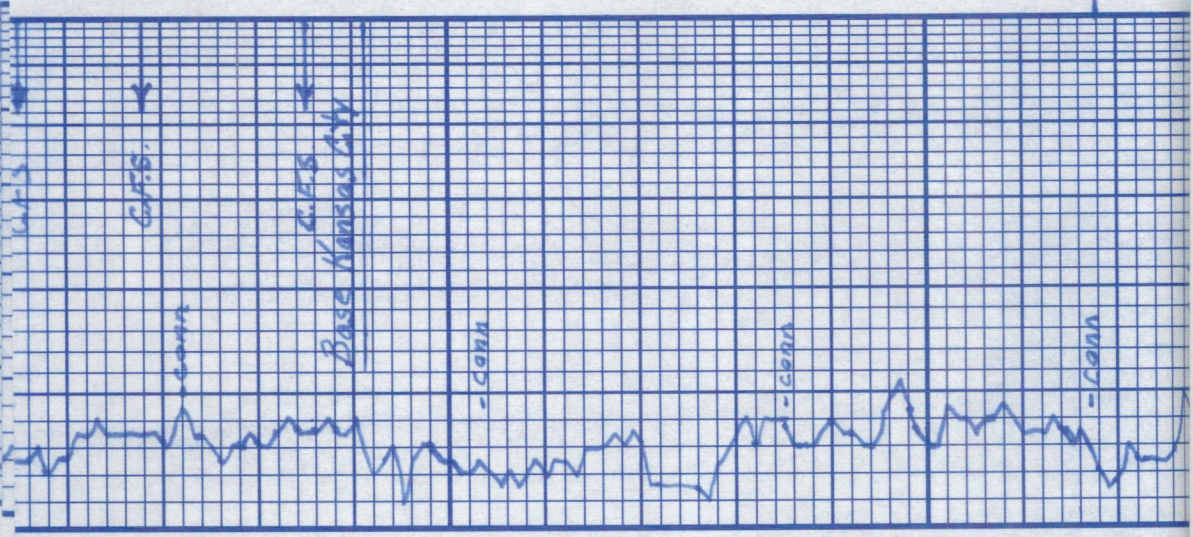




sk: brn, gry, grn  
 LS: wh-ta sli: cky-fxln Tr sli.  
 fsff ppφ Tr. vgy φ Lt. sptd  
 0 Str. N.F.O. fr. adol  
 Δ wh-ta gry  
 Sk: brn + gry  
 LS: wh-ta sli: cky-fxln-sli sup  
 ind φ Seat pos. Lt. sptd Ostr  
 Tr floating Fr. No odor  
 LS: ta-gry fxln dms  
 LS: wh-ta fxln dms N.S.O.  
 LS: wh-ta fxln Seat oil impart  
 φ Tr. vgy φ Pr. Lt. O Str N.F.O.  
 No odor to A wh.  
 LS: wh-ta fxln sli oil pr. ppφ  
 N.S.O.  
 LS: wh-ta fxln dms  
 LS: wh-ta Lt. gry fxln dms  
 Sk: blk Carb.  
 LS: ta-gry mtid fsff dms  
 Siltstone: gry + brn  
 LS: wh-ta sli: cky-fxln Tr.  
 sli: fsff Tr. pr. pp φ pr. Lt.  
 Sptd Ostr N.F.O. No odor  
 LS: ta-gry fxln dms  
 Sk: gry, brn, grn  
 LS: wh-ta fsff Tr. pr. ppφ  
 Tr. pr. Lt. sptd Ostr N.F.O.

15-30-15-30  
 IF: B.O.B. in 10 min  
 ISI: No blow  
 FF: B.O.B. in 12 min  
 FSI: No blow  
 Recovery: 300' MW N.S.O.  
 70% W, 30% M  
 Hyd: 1652-1632 #  
 FP: 27-103/106-152 #  
 BHP: 738-728 #  
 BH Temp: 110°F.  
 DST #2 3469-3479  
 46-45-45-45  
 IF: wk blow incr to 3 1/2"  
 FF: wk blow incr to 1 1/2"  
 Recovery: 100' OCM  
 1520, 852 M  
 Hyd: 1667-1630 #  
 FP: 17-44/46-66 #  
 BHP: 829-819 #  
 BH Temp: 106°F.





60 J	LS: wh-tn fcln - slicky dms Scat Lt. Spth 0 stn V.R.T. PP.F.O. No odor R.T. isal. Vuge
80 K	Sh: brn + gry LS: wh-tn fcln oil slicky stic P.P.P. about Lt. Spth 0 stn Tr. P.P.O. on crushing No odor
L	LS: wh-tn slicky - fcln dms
3600	Sh: gry + brn
	Sh: brn - slty
20	LS: wh-tn slicky - fcln dms N.S.O.
40	Sh: brn + gry LS: sta - yel fcln oil dms N.S.O.
	Sh: brn + gry N.S.O. fr gr consol chr-frost
	LS: wh-tn slicky sdy N.S.O. A or
60	Sh: gry + brn LS: wh-tn slicky - fcln dms shly km tn-brn fcln dms
	Sh: brn + gry

DST #3 ran after logging at 3729' R.T.D. 3727' L.T.D

Test interval corrected drilling time.

DST #3 3666'-3727'  
45-45-45-45  
IF: incr. to 5 1/2" decr. to 1 1/2"  
IF: incr. to 3" decr. to 1/2"  
found a leak on head st.



412' 0:1 25° API  
 60' OCM 30% O 70% M  
 Hvd: 1823 - 1801 #  
 FP: 54-147/159-201 #  
 BHP: 740 - 643 #  
 BH Temp: 112 °F

✓	Lt. Spotted O sea N. no. Dol: wh-tn fxln inxln φ fr O sat fr bleeding Fe ft. odor
✓	Dol: wh-tn fxln - mxln inxln φ fr. O sat p p fca st. decr. in O sat.
✓	Dol: tn-pk fxln dns mostly barren
	Dol: aa
	Dol: wh-tn fxln pr. inxln φ glass spks Thick tary- asph. spks No odor
	Dol: wh-tn fxln dns RT 5ft a.g.
	Dol: wh-tn fxln - fr mxln inc. glass spks inxln φ H.S.O.
	Dol: tn-yel-brn fxln dns

