

APT# 15-137-20670-0000

GEOLOGICAL REPORT  
DRILLING TIME AND SAMPLE LOG

COMPANY Baird Oil Company, L.L.C.  
 LEASE Velma Lowry # 2-34  
 FIELD Wildcat  
 LOCATION 1840' FNL & 1675' FNL  
 SEC 34 TWP 3s RGE 22w  
 COUNTY Norton STATE Kansas

ELEVATION  
 KB 2325'  
 DF 2323'  
 GI 2317'  
 Depths Measured From  
 Log KB Drilling KB

CONTRACTOR Wild Drilling Rig #12  
 SPUD 9-30-13 COMP 10-6-13  
 SAMPLES SAVED FROM 3300' TO R.T.D.

CASING  
 Surface 8 5/8" @ 222'  
 Production None  
 ELECTRIC LOGS  
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM E. Log	A	B	C	D
				•			
Anhydrite	2010	2009	+ 316	+ 315			
Base Anhydrite	2041	2039	+ 286	+ 289			
Topeka	3315	3315	- 990	- 983			
Heebner	3525	3524	- 1199	- 1192			
Taranta	3551	3550	- 1225	- 1219			
Lansing	3569	3568	- 1243	- 1235			
Base Kansas City	3750	3750	- 1425	- 1420			
Marmaton	3785	3785	- 1460	- 1457			
Arbuckle	3820	3820	- 1495	- 1486			
Total Depth	3840	3839	- 1514	- 1611			

REFERENCE WELLS

A. Baird Oil Co., Velma Lowry # 1-34, 1110' FNL & 2600' FNL Sec. 34-35-22W  
 B.  
 C.  
 D.



REMARKS

This well ran 8 feet lower on the Lansing top than the reference well. After evaluating all pertinent information it was decided no further testing was warranted. The well was plugged and abandoned.

Richard B. Bell  
10-6-13

7502

LEGEND

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

DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration Decreases



5" 10" 15" 20" 25"



DEPTH

2000

20

LITHOLOGY

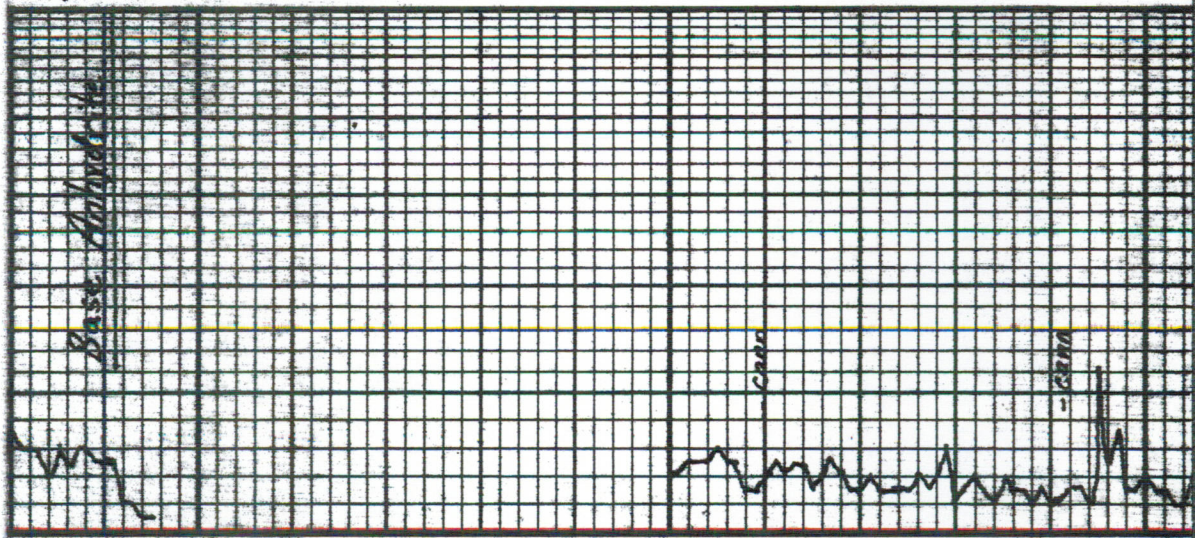
SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

LOG 7710





40

2400

20

40



Sh: brnshty, Tr gry + Torq:

sh: brn slty

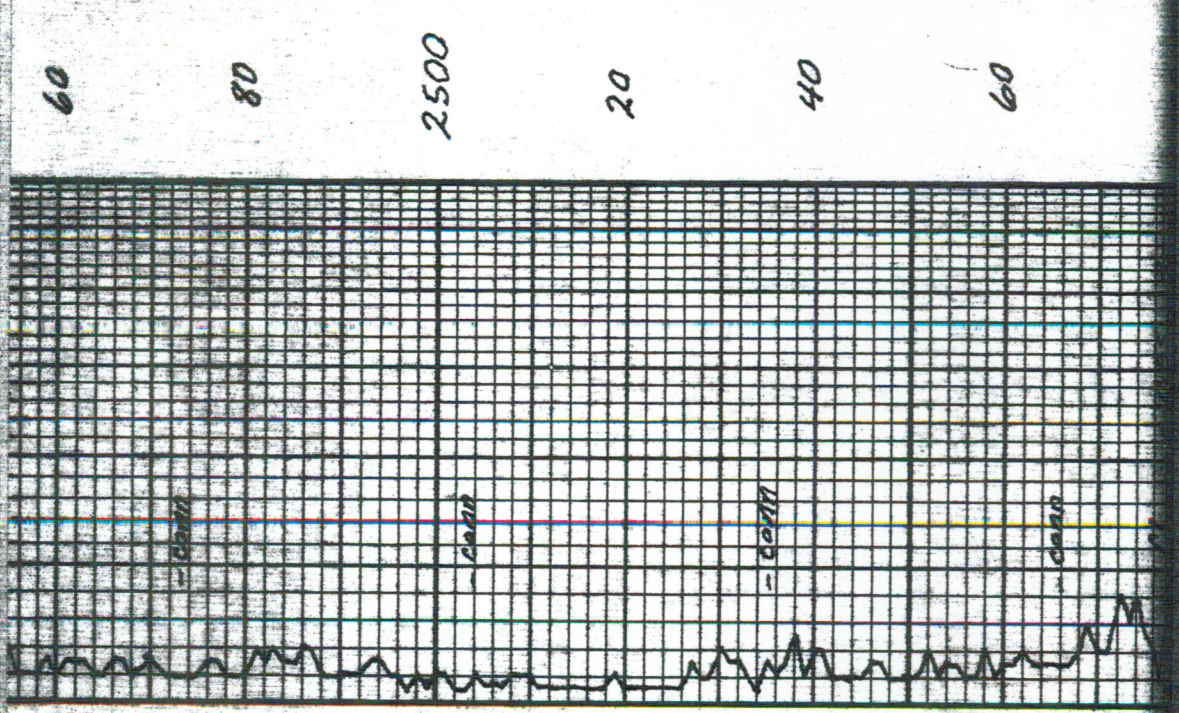
same Tr Pol: brn fcdns

5.5.14.14 to 5.9.90  
in ground N50

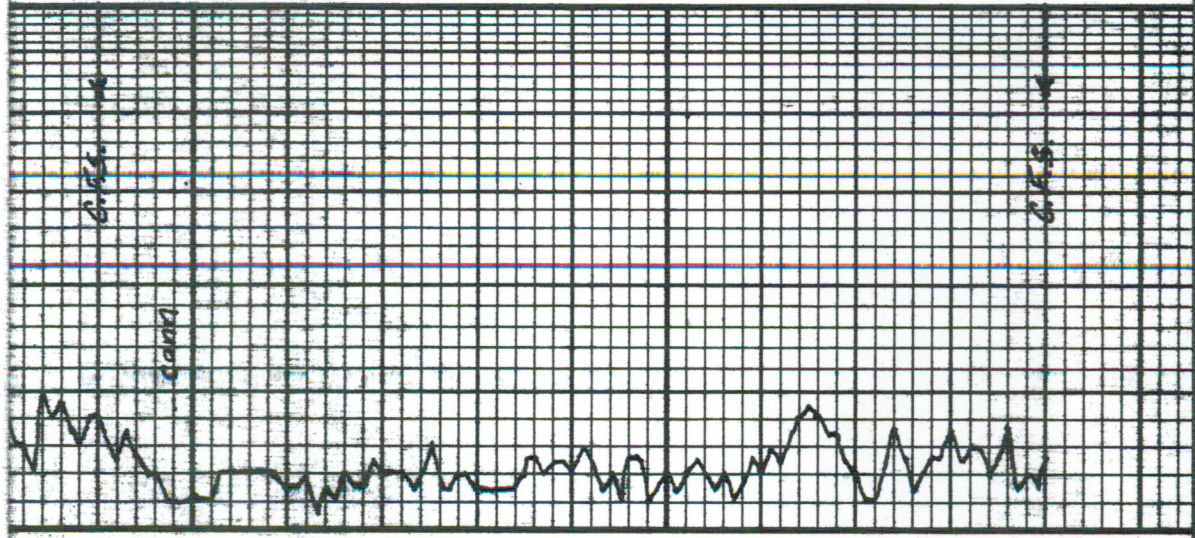
Samples are lagged  
good samples



sh:brn sly	60
sh:brn sly	
sh:brn R.T. Dol to fish das R.T. 50: 79 Sn-grn Consol inglen @ N.S.O.	80
sh:brn sly, Tr-gry sly	
"	2500
"	
"	20
sh:brn sly Tr ss: to-gry fin gr. Consol, ingren @ N.S.O. Tr Dol: to fish das N.S.O.	40
sh:brn sly, gry sly	
sh:brn sly	60
Tr. Dol: gry fish das	

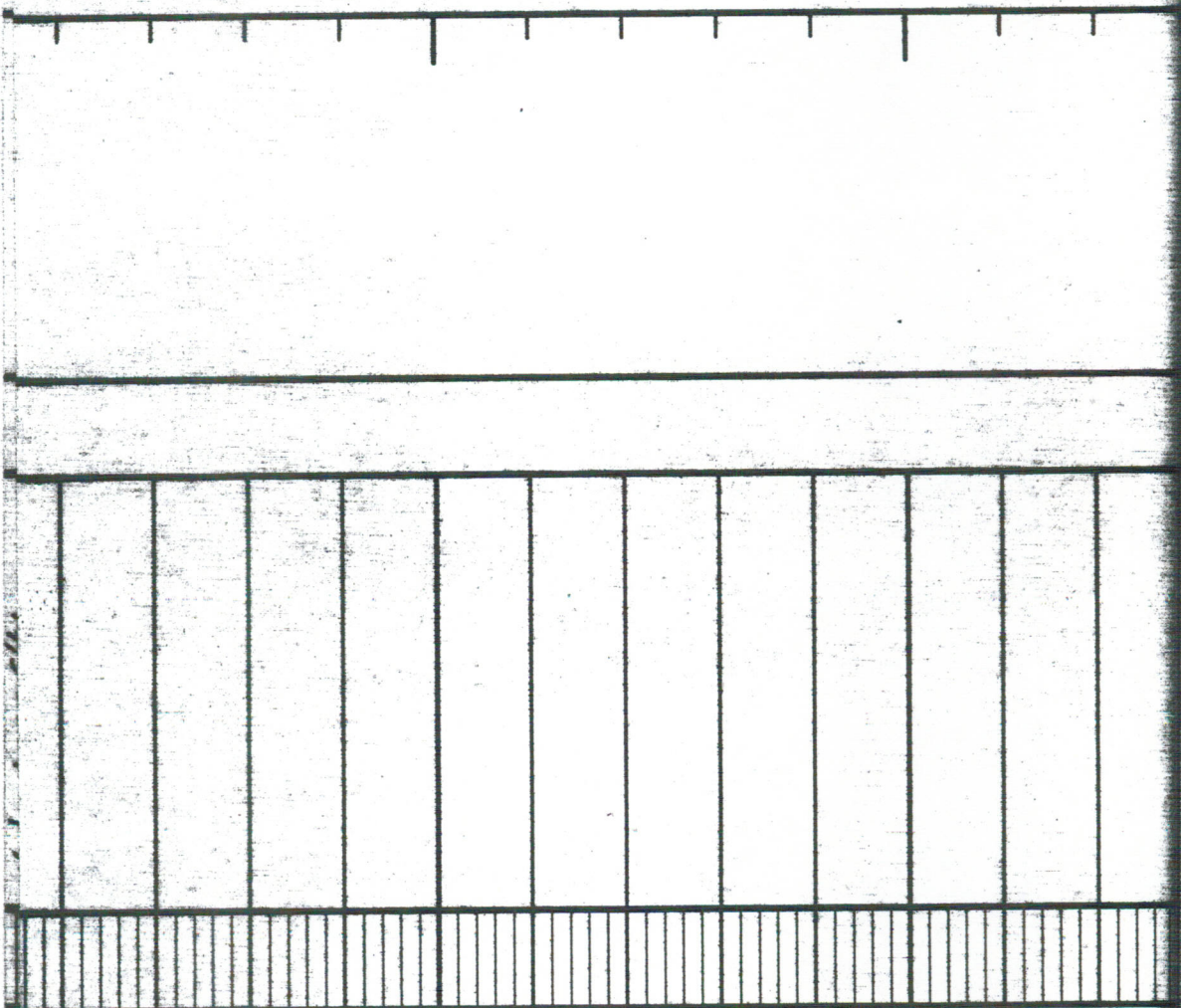






2600	Diagonal lines	Dol: tn-gry fxl n dms N.S.O. No cut
20	Vertical lines	SS: fn-ht-gry fn gn Consol. ingrah & N.S.O. sh:brn
40	Horizontal lines	sh:brn stky " "
60	Diagonal lines	sh:brn stky S.S.: wtk-ht-gry v-fn-gn-Consol. ingrah & N.S.O.
80	Diagonal lines	Dol: tn-brn-gry fxl n dms N.S.O. No cut Tr Δ wtk
2700	Diagonal lines	Dol: tn-ht-gry fxl n dms N.S.O. No cut SS: gry dolio-fn gn Consol. ingrah & N.S.O.



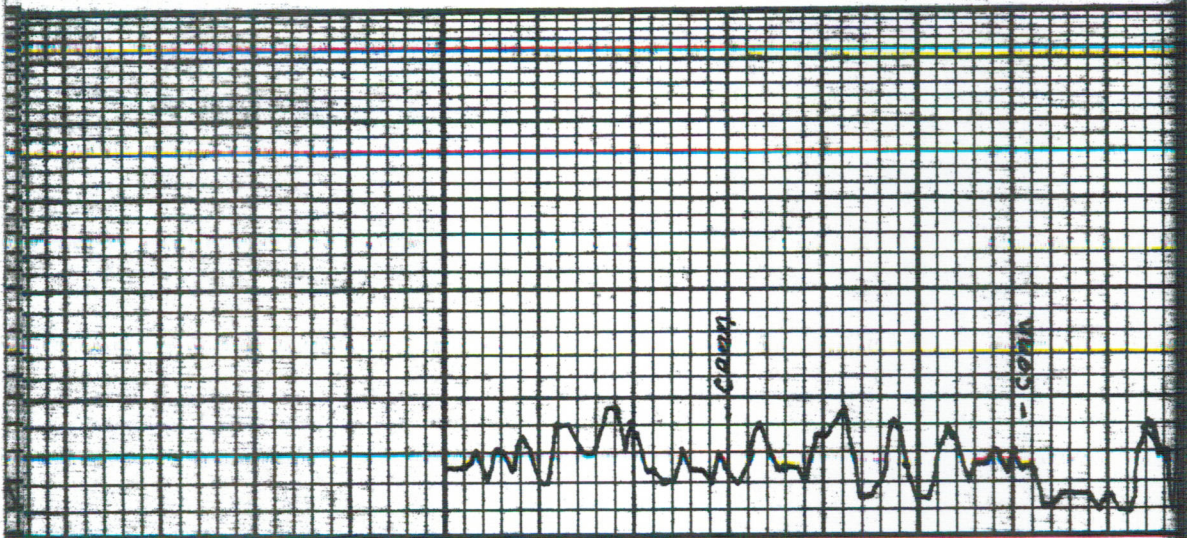


3100

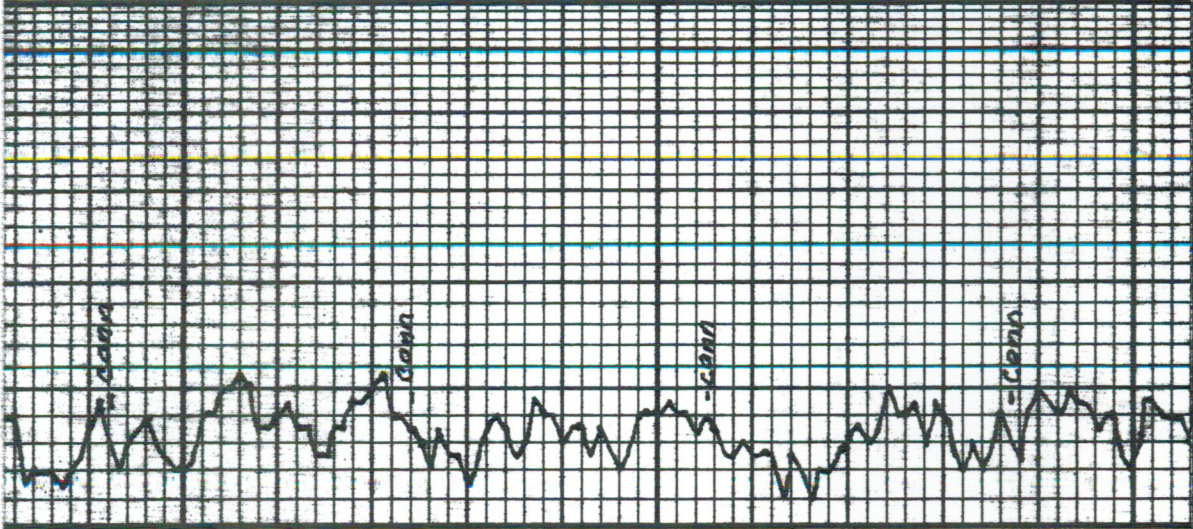
20

40

60







3200

20

40

60

80

3300

LS: frequency fwhm - si. 9.518 dms.  
MSQ

sh. 9.94  
LS: fwhm - frequency fwhm - 9.518 dms.  
dms. - MSQ



sh:brn slyt:gr
15:wh-tk sly:ck-fsh dms
sh:brn sly
15:wh-tk sly:ck-fsh dms
15:wh-tk fsh dms N.S.O.
15:wh-tk sly:ck-fsh -sly fsh Tr. pr. pp N.S.O.
sh:brn sly
To 15:wh
sh:brn sly
15:wh-tk sly:ck-fsh sly:ck pp N.S.O. by wh-tk
15:wh-tk sly:ck-fsh sly:ck pp N.S.O. by wh-tk
15:wh-tk sly:ck-fsh dms 15:gr sly:ck-fsh dms
sly:ck-fsh:brn

20

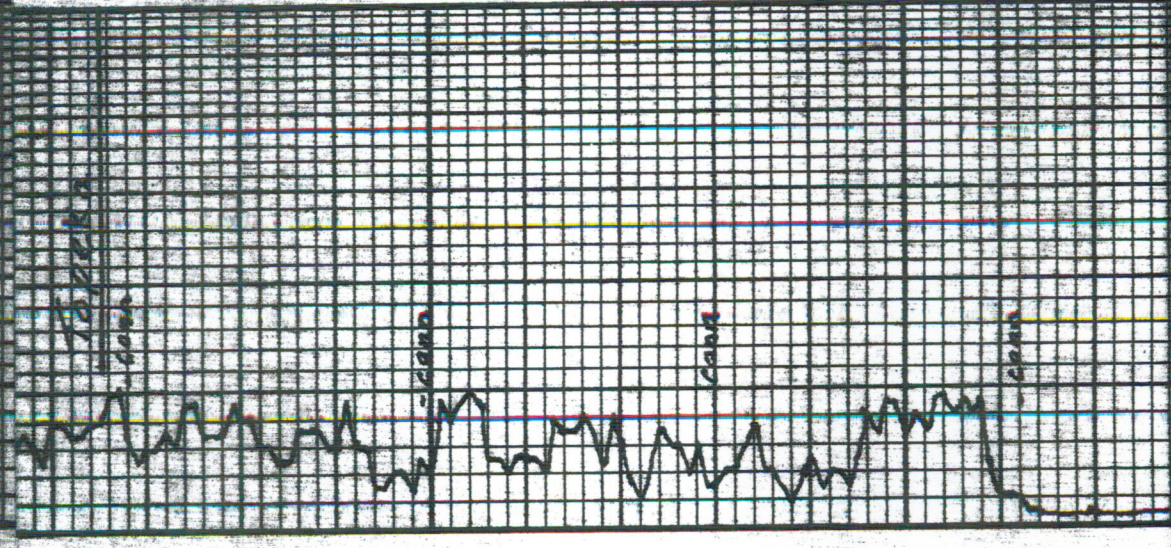
40

60

80

3400

20





40

60

80

3500

20

40

v. sh. brn

LS: wh. to fcln pv-pp @ N.S.O.

sh: brn slty

LS: wh. to cky-fcln sl. @ N.S.O.

Tr. blk Carb Sh.

LS: to-fcln dns

LS: wh. to-brn sl: cky-fcln

Tr. pp @ N.S.O.

sh: brn & gry

LS: wh. to cky-fcln ool-sub

LS: to-lt. gry fx/dns

Sh: B/K Carb.

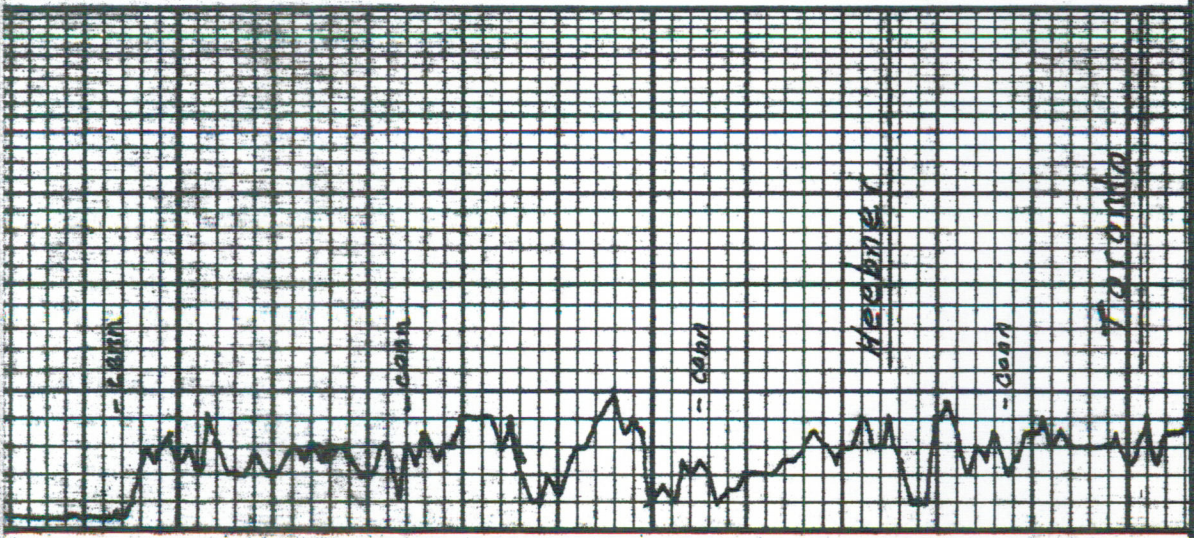
LS: to-lt. gry B/K dns

sl: stone-gry + brn

LS: wh. to fcln dns N.S.O.

Windy. No Pipe Strap  
Incline @ 3580' 1/2°

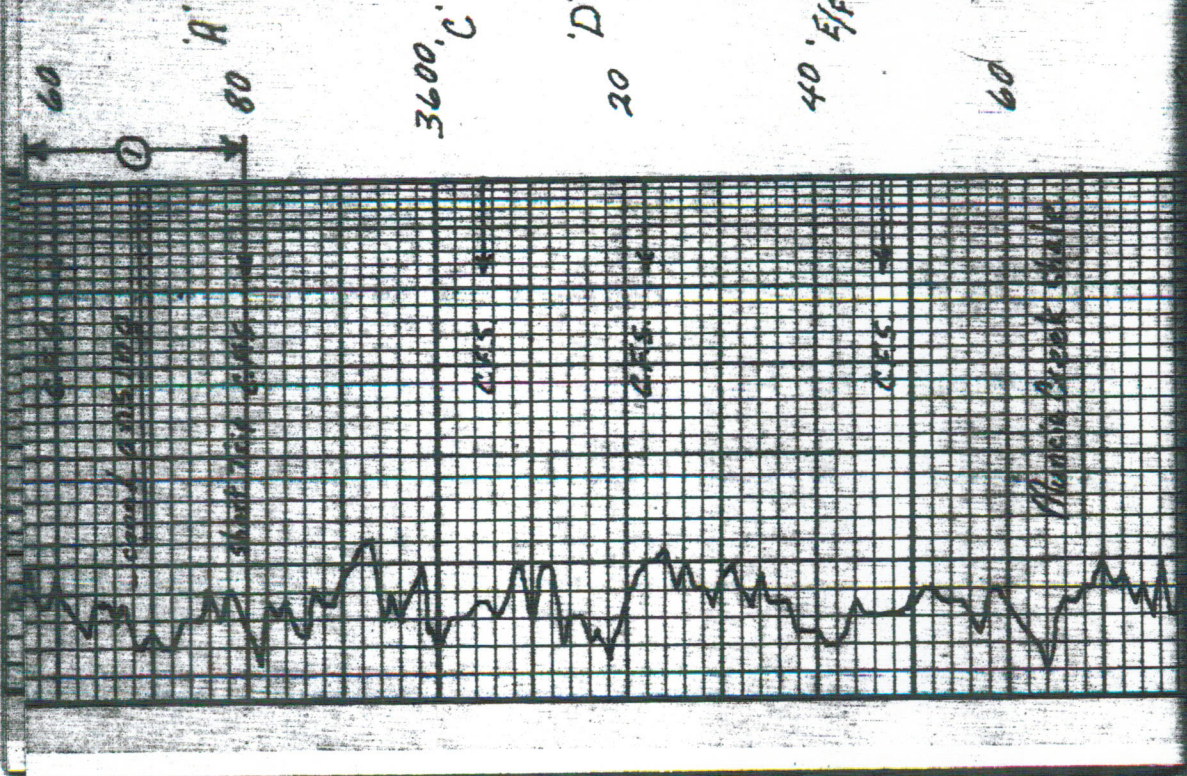
DST # 1 3557-3580'



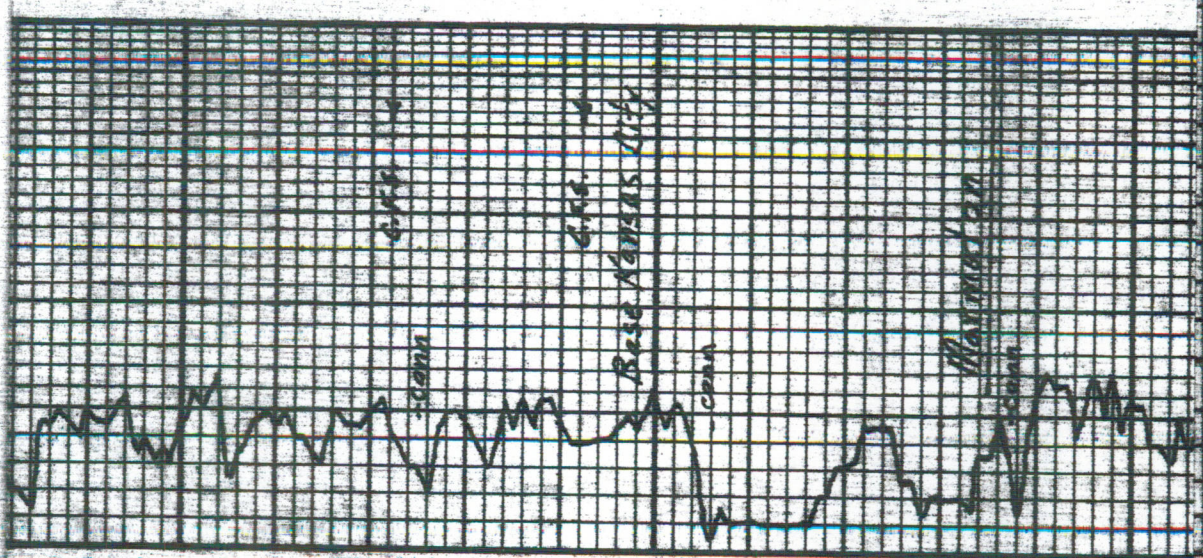


75-75 - 75 T-4  
 If not blow inc. to 5  
 ISI: No blow  
 FF: No blow  
 FSI: No blow  
 Recovery: 122. Total  
 2.01  
 120 MW 60% w, 40% D  
 Hyd: 1951-1798#  
 FP: 16-70/77-100#  
 BHP: 1224-1188#  
 BH Temp: 97°F.  
 Chlorides: 39,000ppm

Sl: brn sly & gry	✓
15: wh-tn sli. cty- fcln dms ppp A.T. spts dms fcl. pp f.c. increasing no odor	
15: wh-tn sli. cty- fcln dms	
15: tn-gry fslf dms sl: brn sly	
15: wh-tn cty- fcln dms N.S.O. - No cut v. d. + wh-tn ov.	
15: wh-tn cty- fcln- sl. fslf ppp N.S.O. No cut ov. pty	
15: gry fcln dms 15: sl. brn fslf dms	
sl: brn, gry, gr	
sl: brn sly	
15: yet fslf dms - 15: wh-tn sl: cty- fcln dms N.S.O. sl: brn & gry	
15: wh-tn fcln sub. ool. sli. fslf dms N.S.O.	
15: wh-tn sli. cty- fcln dms A.T. wh-tn gry	
15: blk carb. sh 15: gry fslf dms	







	H	J	K	L				
	3700	20	40	60	80	3800		
ans. N.S.O.								
LS: wh-tu.cky-fxln das								
v. slly: brn slty								
v. slly: brn slty								
LS: wh-tu.cky-fxln pr. ppp 14-fr. a shn fr. pp f.o. ar. adar sh. brn.								
sh. brn								
LS: wh-tu. sl.cky-fxln-sl. fxln. sl. ool w/ fang. sh. wh. The pr. ppp. N.S.O. sh. fr. ppp. f.o. on erushing. It. cut No. adar LS: wh-tu.cky-fxln sub ool das N.S.O.								
sh. brn								
sh. brn slty								
LS: wh-tu.cky-fxln slty. fah das N.S.O.								
sh. brn slty								
LS: wh-tu.cky-fxln das. p.s.o.								
sh. brn. slty								
LS: wh-tu. fah pr. ppp. f.o.								





DRILLING TIME MINUTES/FOOT	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	<p>20</p> <p>40</p>	<p>LITHOLOGY</p>	<p>55' - 60' - 65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'</p> <p>65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'</p>	<p>OIL SHOWS</p>	<p>REMARKS</p>

55' - 60' - 65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'

65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'

65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'

65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'

65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'

65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200'

DRILLING TIME MINUTES/FOOT

Rate of Penetration Decreases

CONTRACTOR \_\_\_\_\_

LEASE \_\_\_\_\_

ELEVATION \_\_\_\_\_

LOCATION \_\_\_\_\_

SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_

COUNTY \_\_\_\_\_ STATE \_\_\_\_\_