

GEOLOGIC
REPORT
LOG

API: 15-153-21005-00-00

COMPANY The Bill Bowman
Oil Company

WELL Simminger SW #1

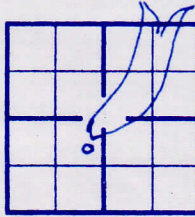
FIELD Wicke

LOCATION _____

SEC. 17 TWP. 1s RGE. 32w

COUNTY Rawlins

STATE Kansas



PRODUCTION Oil

ELEVATION KB 2954

DF _____

GL 2949

Drilling Measured From: Relly Bushing

Samples Saved From 3250 To: TD

Drilling Time From 3250 To: TD

Samples Examined From: 3250 To: TD

Geological Supervision From 3300 To Total Depth

Wellsite Geologist Roger L. Moses

Electrical Surveys Porosity

Dual Induction

Micro

Pioneer Energy Services

OPERATOR The Bill Bowman Oil Co

CONTRACTOR White Knight Drilling LLC

COMM: 5-24-2014 COMP: 5-31-2014

CASING RECORD

SURF: 8 5/8" @ 261' PROD: 5 1/2" @ 4431'

TOTAL DEPTH DRILLERS: 4458'

TOTAL DEPTH LOG 4456'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
<u>Anhydrite</u>	<u>2724 (+230)</u>	<u>2724</u>	<u>(+230)</u>	
<u>Base/Anhydrite</u>	<u>2768 (+188)</u>	<u>2766</u>	<u>(+188)</u>	
<u>Neva</u>	<u>3295 (-341)</u>	<u>3292</u>	<u>(-338)</u>	<u>N/A</u>
<u>Foraker</u>	<u>3422 (-468)</u>	<u>3416</u>	<u>(-462)</u>	<u>+12</u>
<u>Tarkio</u>	<u>3511 (-557)</u>	<u>3507</u>	<u>(-553)</u>	<u>+1</u>
<u>Topeka</u>	<u>3700 (-756)</u>	<u>3709</u>	<u>(-755)</u>	<u>+1</u>
<u>Heebner</u>	<u>3820 (-876)</u>	<u>3822</u>	<u>(-868)</u>	<u>+6</u>
<u>Lansing</u>	<u>3857 (-903)</u>	<u>3859</u>	<u>(-905)</u>	<u>+7</u>
<u>Base/Kansas City</u>	<u>4130 (-1176)</u>	<u>4126</u>	<u>(-1172)</u>	<u>+7</u>
<u>Cherokee</u>	<u>4350 (-1396)</u>	<u>4346</u>	<u>(-1392)</u>	<u>N/A</u>
<u>Arbuckle</u>	<u>4434 (-1480)</u>	<u>4428</u>	<u>(-1474)</u>	<u>N/A</u>

REFERENCE WELL FOR STRUCTURE Argosy Petroleum Company

H.J. Wicke #1, SE-SW, Section 17-1s-32w

Rawlins County, Kansas

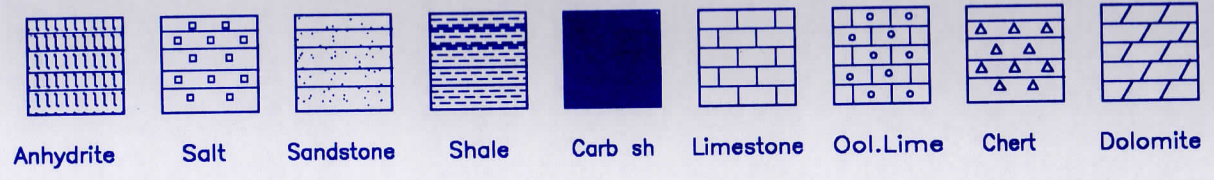
DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH	RECOVERY
		NO DST'S RAN					

REMARKS AND RECOMMENDATIONS Based on position structurally
and shows 5 1/2" production casing was
set @ 4431 and cemented in

Respectfully
 Roger L. Moses

LEGEND



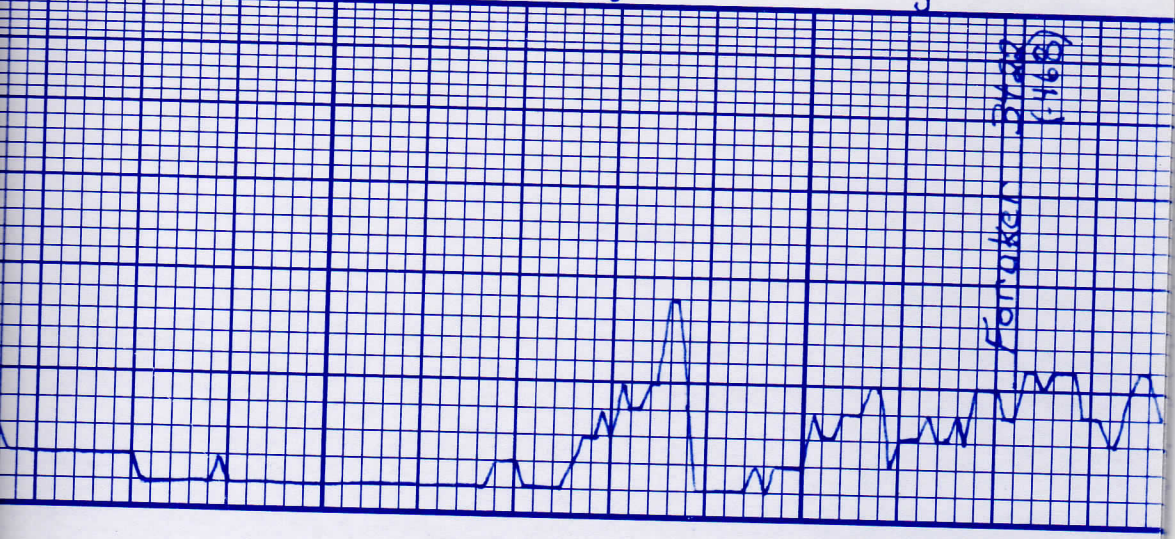
	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases 	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
LOG 7710		3250	c			
		60				
		70				
		80	c	LS: wht, fxn		
	Neva	90		sl: gry-brn		
	3295 (341)	3300		LS: wht-gry, f med xln paleofid, soft nodos		Geo Onsite @ 3:45 pm 5/28/14
		10				

Dev Survey
@ 2430' 1/2°

VIS 50
WT 910

SH: vari. clrd. med	
SH: vari. clrd. p. lty	
LS: wlt. f. med xln, intxln, NO NIS	
LS: 5 a/a	
LS: gry, f. med xln, barren	
SH: gry, med	
LS: wlt-gry, intxln, soft barren	
LS: s. a/a	

20
30
40
3350
60
70
80
90
3400
10
20
30



VIS 52
WT 8.9

	SH: gry-red, med
	SH: dk gry, soft, waxy
	LS: wlt-gry, fxl, inter Xla & Fw ss/sls NS
	LS: wlt-tan gry, foss,
	LS: s a/a
	LS: wlt-brn, dms, f-med xln in xln @, sls, NO NS

40
50
60
70
80
90
3500
10
20
30
40
50
60



VIS 53
WT 9.0

VIS 60
WT 9.3

LS: tan-cr, dng, Fxn.
poor intxn Ø barren

LS: wht-gr, few mth, blk.
F-med xln, int xln Ø Foss

LS: tan, F-med xln, dng
No NS Foss LS PP Ø

LS: Saja
SH: gry, red, grn

LS: wht-lt pink, few blk
F-med xln, poor intxn
Ø NO NS

SH: gry-brn, earthy

70

80

90

3600

10

20

30

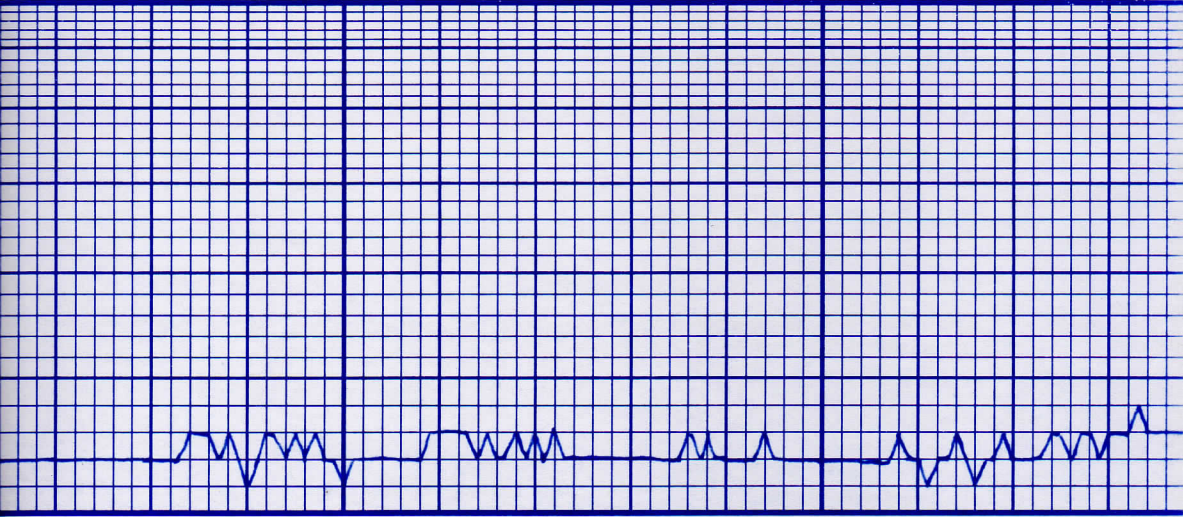
40

50

60

70

80



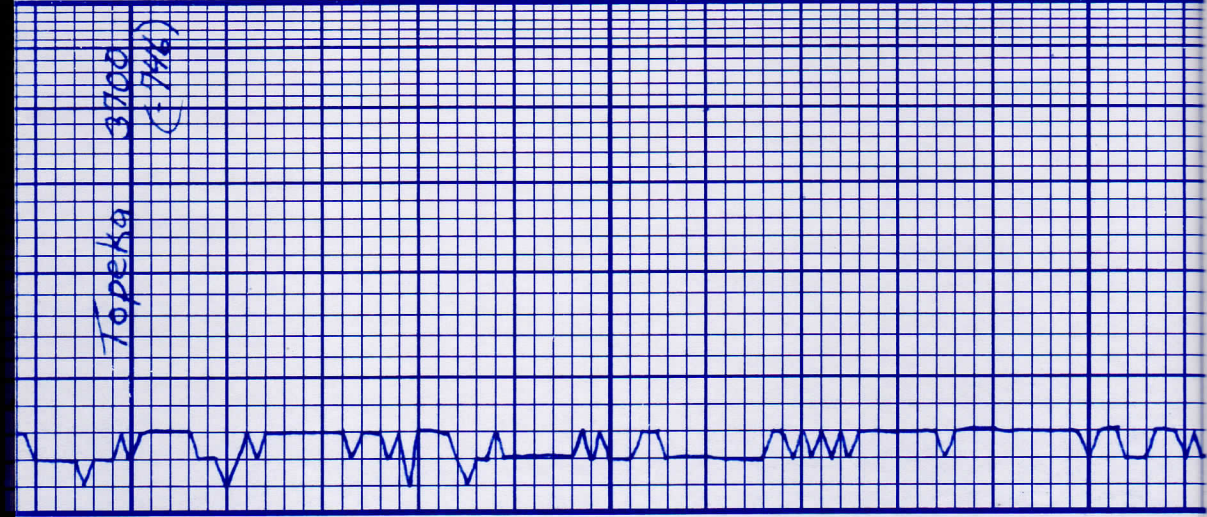
VIS 61
WT 9.2

VIS 62
WT 9.2
2 1/2 LCM

LS: Wn - lt gray, f-med xln dns, Fe# ND NS
LS: gry-wolt, f-med xln. foss, barren
LS: 5 a/a
LS: gry-yell, f-med xln chky, PP# NO NS
LS: CRM-wnt, f-med xln chky, foss Fe# barren
SH: vari. clrd, med, plty
LS: CRM-wnt, foss LS. f-med xln, int xln, PP#
LS: lt gry-bee, f-med xln. dns, few chky ps. NO NS
LS: lt gry- SR f-med xln int xln, NO NS



c 90
3700
10
20
30
40
50
60
70
80
90
3800
10



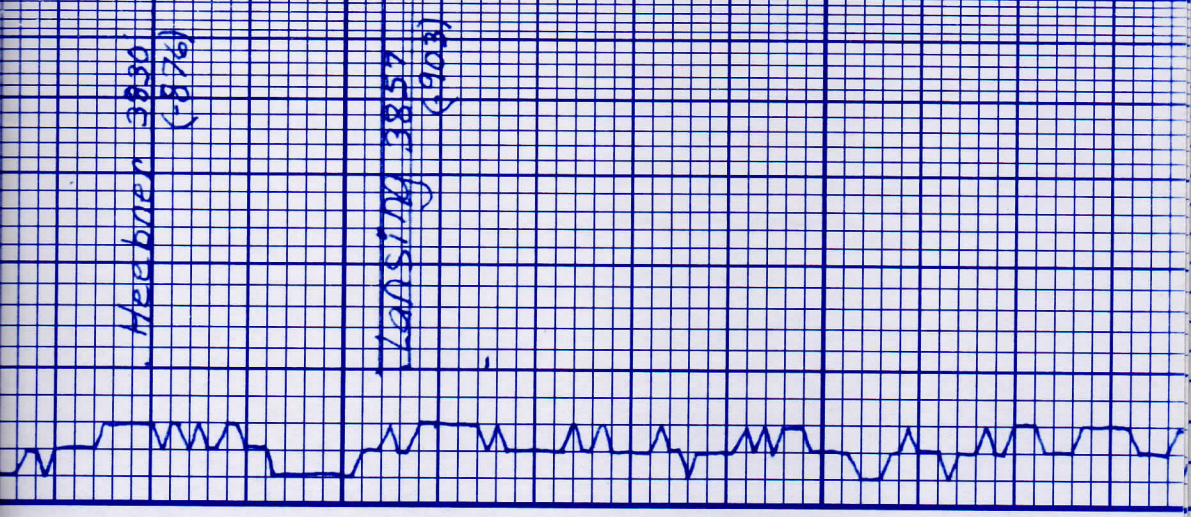
Topeka
3700
(1996)

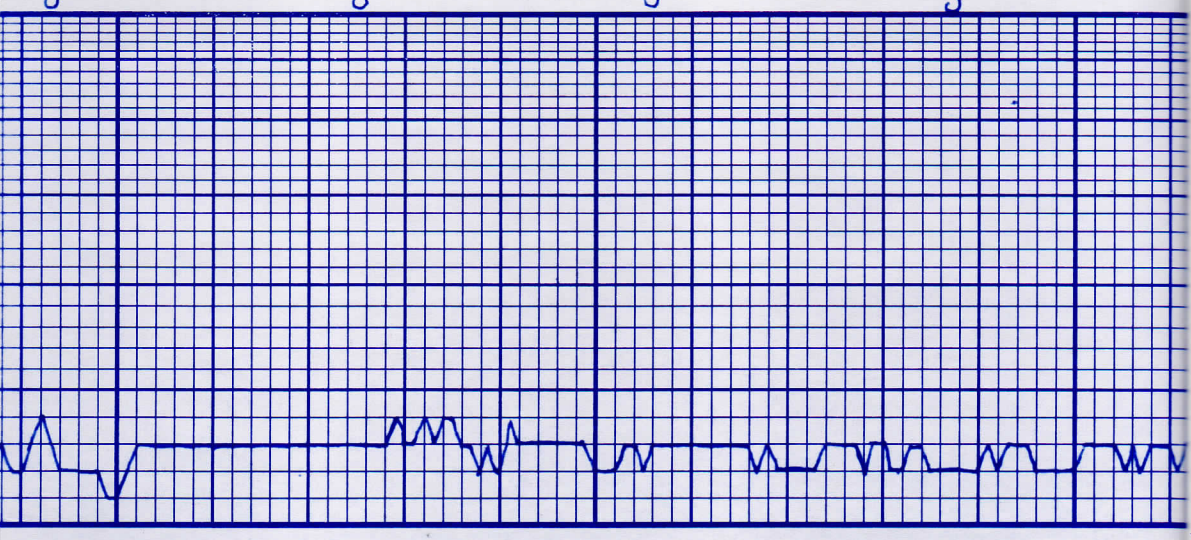
LS: few sawt/char Sl: Odor, G Sho Free Di./	LS: s a/a, sho O.I., Asphaltic	LS: red, r/wat, blk. med	LS: tan, dns, yellow streaks, dns,	LS: w/ht tan, dns, F med xln	LS: w/ht - blk, few grn pp, int xln Good Odor GSFO	LS: s a/a	LS: w/ht, F med xln int xln, few lumpy F-O SI, SFO	LS: w/ht, F xln, pp - vug Fair Odor, SFO	LS: s a/a
--	--------------------------------	--------------------------	---------------------------------------	------------------------------	--	-----------	--	---	-----------

VIS 50
WT 9.5
LCM 2

VIS 45
WT 9.2
LCM 2 1/2

20	30	40	50	60	70	80	90	3800	10	20	30
----	----	----	----	----	----	----	----	------	----	----	----





40
50
60
70
80
90
4000
10
20
30
40
50
100

LS: wnt-tan, Fr xln, dns PPQ w/a GSEQ
LS: wnt-tan, F-med xln dns, PPQ few vug P F-wador Sli SFD LS: S a/a wador Sho.
LS: wnt-tan, F-med xln, pellets bd PPQ, F-wador SFD
SH: varicld.
LS: wnt-butl - few tan. F-med xln, w/xln, PPQ F-wador, v Shisho. LS: S a/a
SH: varicld, med, polty
SH: S a/a
LS: tan, F-med xln, dns F-wador NSbe

VIS 50
WT 9.3
LCM 2 1/2

VIS 51
WT 9.3
LCM 2

VIS 55
WT 9.4
LCM 2 1/2

VIS 45
WT 9.7
LCM 2 1/2

VIS 50

SH: gray-red, med, patty

LS: 5 a/a

LS: WH - buff F med xln
int xln p, p p o s f o

LS: WH - 1 t gray, dns, f xln

SH: dk gray, red, brn, med
patty

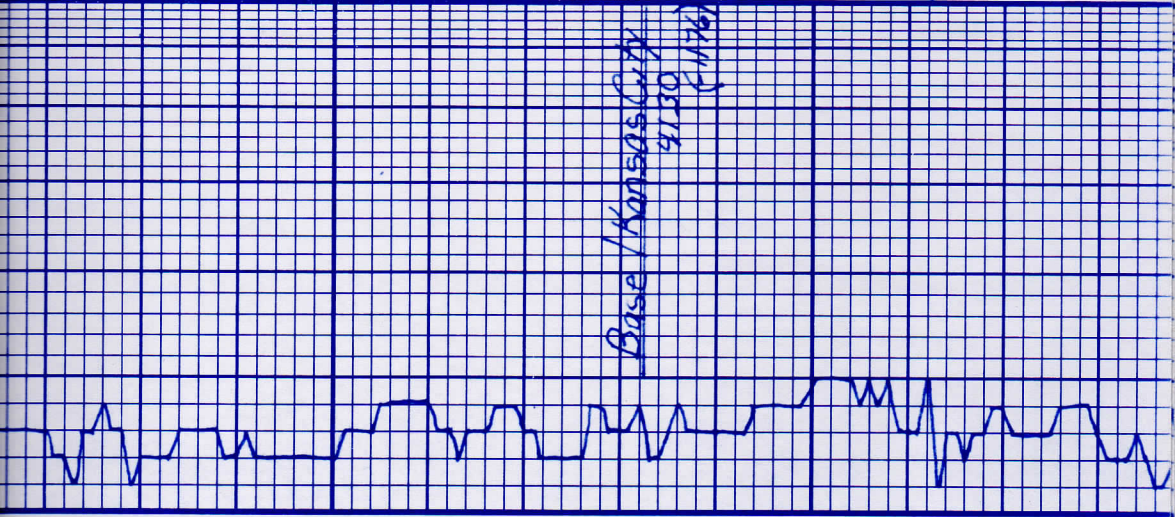
LS: wht F xln dns
Poor int xln & NO NS

SH: vari clnd, med, blk y

LS: wht, F xln, barren

70
80
90
4100
10
20
30
40
50
60
70
80

Base / Kansas City
4130
(1176)



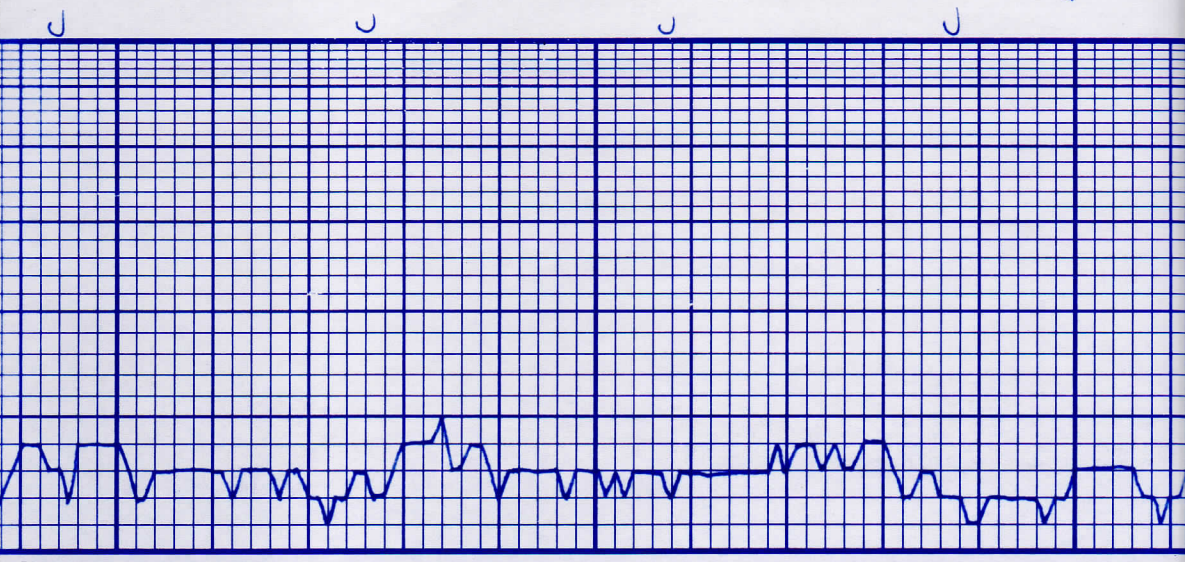
WT 9.4
LCM 2

VIS 50
WT 9.5

LS: wnt-11 brn, f-med xln, dng, No NS
LS: wnt-70n, fxln tan A
LS: wnt, fxln, poor intxln \emptyset , few chit tan
LS: tan-buff, f-med xln int xln \emptyset , dng, tan chit
LS: wnt-yell, f-med xln, No NS
SH: gny-brn, med
LS: wnt-yell, fxln, dng No NS
SH: blk carb.
SH: red, rust-gry blk
LS: wnt-70n, f-med xln interxln \emptyset No NS



90
4200
10
20
30
40
50
60
70
80
90
4300
10

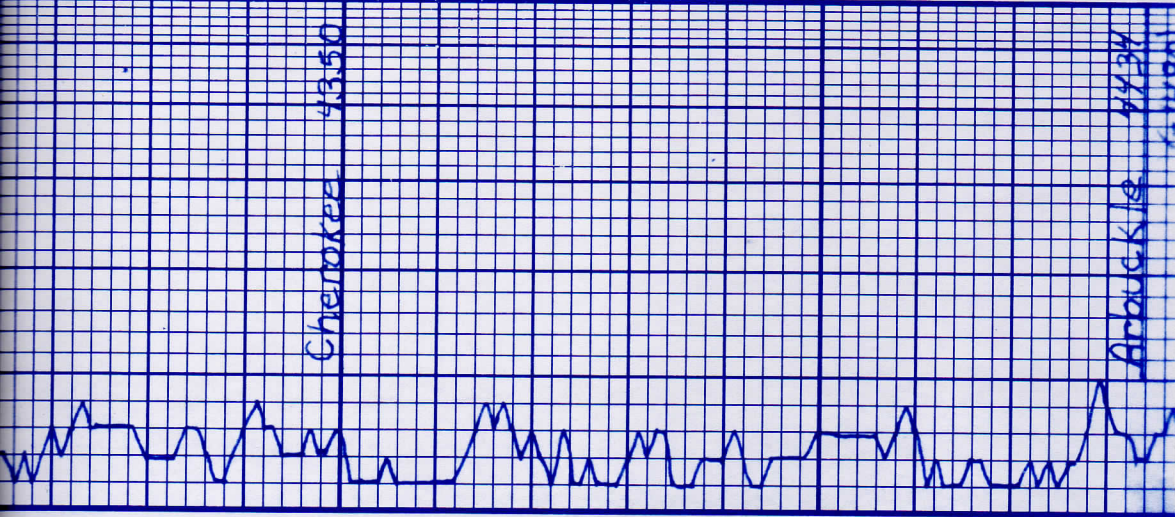


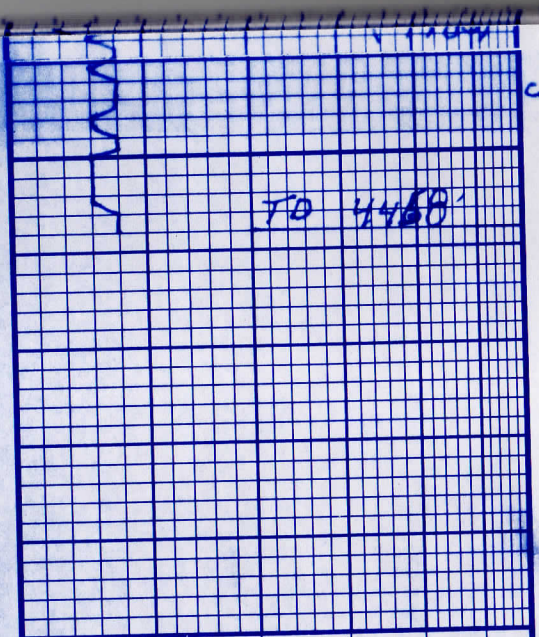
VIS 51
WT 9.4

VIS 50
WT 9.6
LCM 2

SH: 5 a/a	LS: wnt-tan, f-med x/n NE NS											
			SS: CIF-Trosted, fr grained subrotated, mal brtd, A Calclem, F# NO NS				SH: gry-red, mod Pity Fur pcs Qtz, few scat clashes as above					
							SH: gry-brn					
									LS: wnt-tan, f-med x/n, i/x/n			
									SH: gry brn med.			
										LS: wnt, f-med x/n barren		
										Do: wnt-tan, med x/n,		

c 20
30
40
c 50
60
70
80
90
4400
c 10
20
30





5" 10" 15" 20" 25"
 DRILLING TIME Minutes/Foot
 Rate of Penetration Decreases

40
 50
 60
 70
 DEPTH

LITHOLOGY

uggy, clay, NENS
 Delo: s a/a
 SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR White Knight Drilg LLC
 LEASE Simlinger SW*1 IP Oil
 ELEVATION 2954' KB RTD 4458'

LOCATION 1650' FSL E 2980' FEL
 SEC 17 TWP 15 RNG 32W
 COUNTY Rawlins STATE Kansas