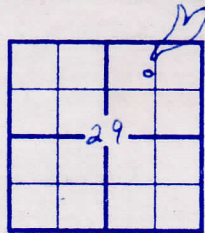


GEOLOGIC
REPORT
LOG

API: 15-153-21,006-00-00

COMPANY The Bill Bowman
Oil Company
WELL Mayr #1
FIELD Wildcat
LOCATION 4527' FSL E 1458' FEL
SEC. 29 TWP. 3s RGE. 34w
COUNTY Rawlins
STATE Kansas



PRODUCTION Oil
ELEVATION KB 3055
DF _____
GL 3050
Drilling Measured From: Kelly Bushing
Samples Saved From 3250 To: TD
Drilling Time From 3250 To: TD
Samples Examined From: 3250 To: TD
Geological Supervision From 3250 To Total Depth
Wellsite Geologist Kegan J. Moore
Electrical Surveys Dual Induction
Porosity
Micro
Pioneer Energy Services

OPERATOR The Bill Bowman Oil Co.
CONTRACTOR White Knight Drilling
COMM: 6-2-14 COMP: 6-8-14
CASING RECORD
SURF: 8 5/8" @ 260' PROD: 5 1/2" @
TOTAL DEPTH DRILLERS: 4460'
TOTAL DEPTH LOG 4457'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Anhydrite	2184 (+271)	2776	+279	+12
Base/Anhydrite	2824 (+231)	2822	+233	+6
Neva	3346 (29)	3342	-287	+1
Foraker	3480 (-425)	3478	-423	+3
Tarkio	3571 (-516)	3568	-513	+4
Topeka	3700 (-655)	3718	-663-663	N/A
Heehner	3923 (-868)	3926	-871	+03
Lansing	3966 (-911)	3972	-917	+2
Base/Kansas City	4213 (-1158)	4214	-1159	+5
Marmaton	4252 (-1197)	4252	-1197	+6
Cherokee	4388 (-1333)	4392	-1337	+7

REFERENCE WELL FOR STRUCTURE Bill Bowman Oil Company
Simlinger #1, 2216' FSL E 3273' FEL Section
21-3s-34W, Rawlins County, Kansas

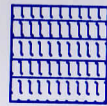
DRILL STEM TESTS

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

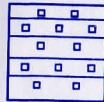
REMARKS AND RECOMMENDATIONS Based on oil shows and structural position 5 1/2" production casing was run and cemented in to further evaluate Kansas City zones.

Respectfully
Roger J. Mason

LEGEND



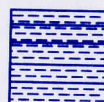
Anhydrite



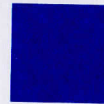
Salt



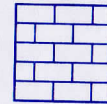
Sandstone



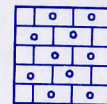
Shale



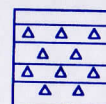
Carb sh



Limestone



Ool. Lime



Chert



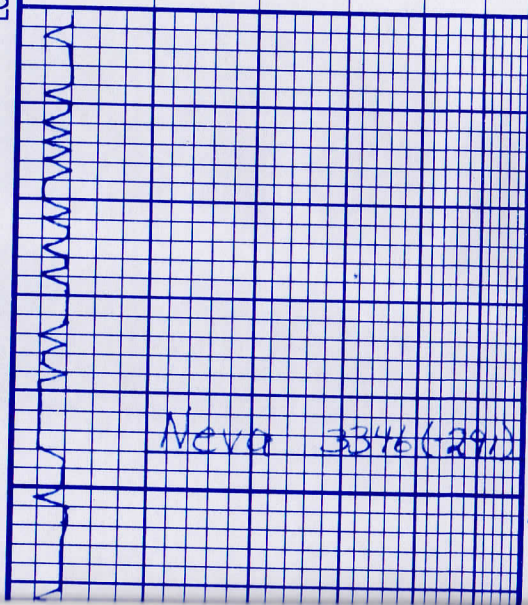
Dolomite

LOG 7710

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases



5" 10" 15" 20" 25"



Neva 3346 (29)

DEPTH

3300

10

20

30

40

50

60

LITHOLOGY



SAMPLE DESCRIPTIONS

LS: wht-bulk, fine d xln
good int xln, few gr
xtls. No NS

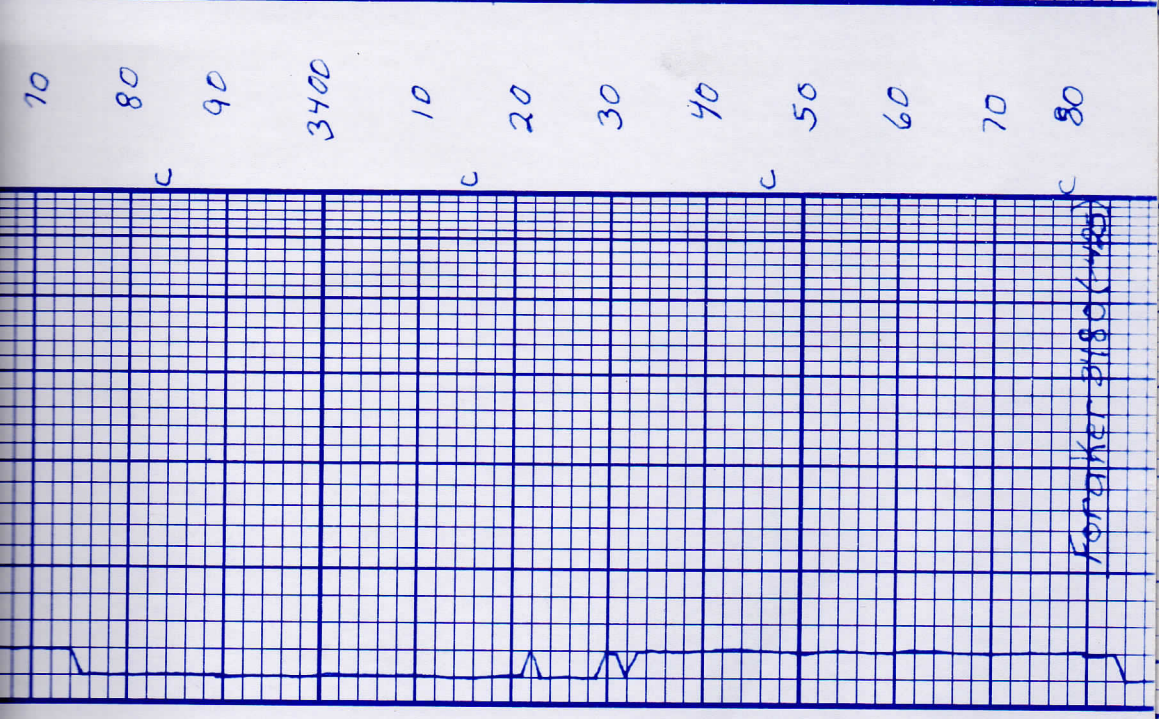
OIL SHOWS

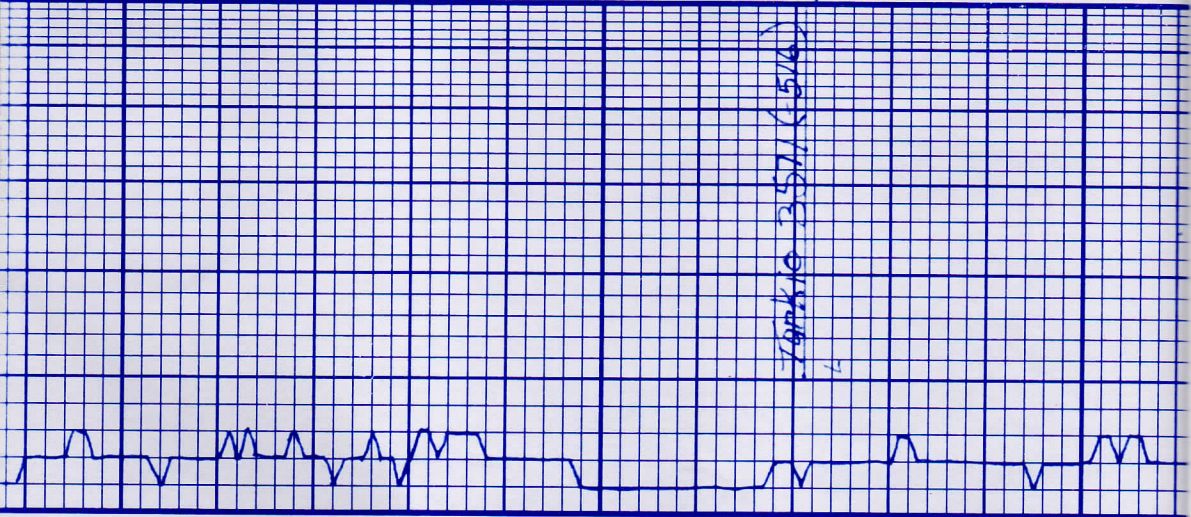
REMARKS

VIS 45
WT 8.5
LCM 2 1/2

LS: tan soft, friable x10 Fett No NS	70
SH: vani chud, med ply	80
	90
	3400
SH: S 9/9	10
LS: tan, friable x10, inter x10 B, few N's, some Fett	20
	30
	40
LS: white, friable soft, fett	50
	60
LS: S 9/9	70
LS: white, tan, friable x10 inter x10, No NS	80

VIS 51
WT 8.8
LCM 2 1/2





90	SH: gry, med, pity
3500	LS: gry, f-med xln, in xln No NS
c 10	LS: wht - lt gry, f-med xln inter xln No NS
20	LS: sqa
30	
c 40	LS: wht - gry, some mtlid fxln, No NS
50	SH: red, oranges, med, pity
60	
70	LS: tan - gry, f-med xln poor in xln No NS
80	LS: wht - lt gry, f-med xln, silty red sh.
90	LS: lt gry - tan, f in xln, dns. No NS
c 3600	
10	

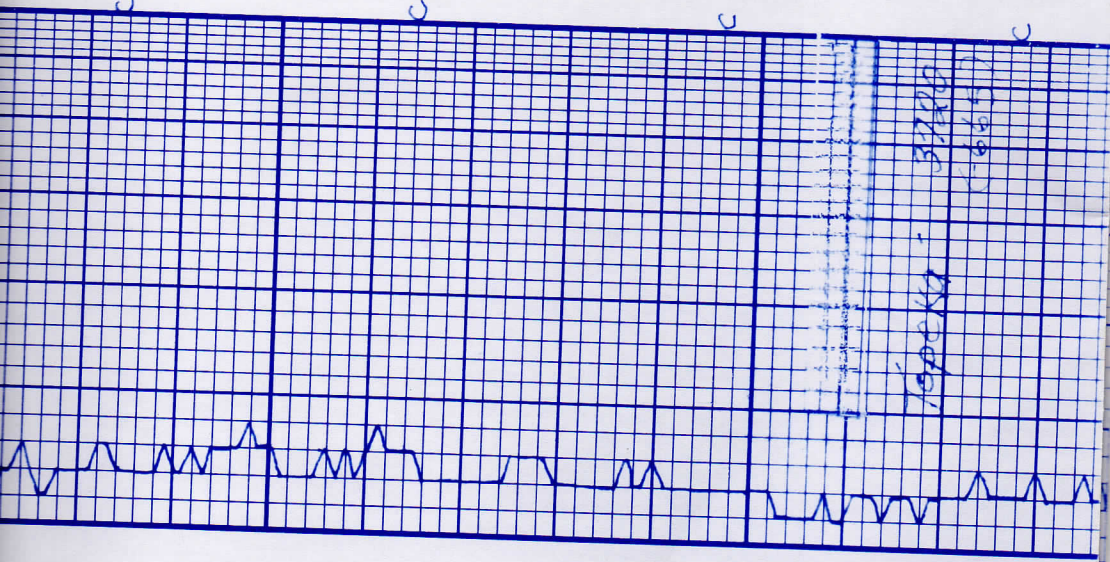
VIS 60
WT 8.9
LCM 2

VIS 51
WT 9.1

VIS 47
WT 8.9

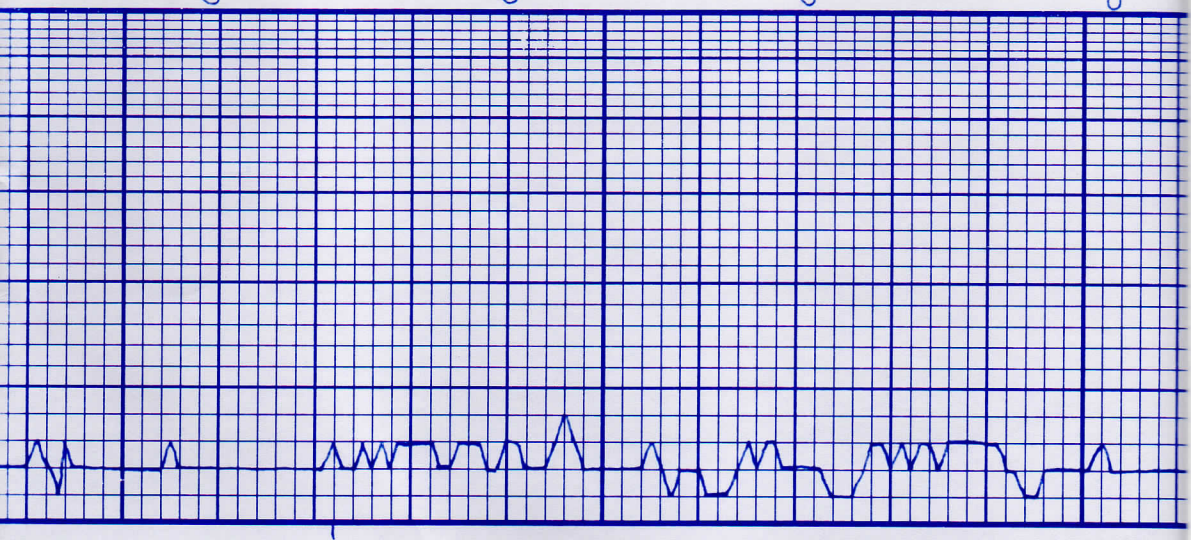
VIS 47
WT 8.9
LCM 2 1/2

20	SH: red-grny, med, blk y
30	LS: wlt-tan, F, xln, intw xln
40	
50	LS: wlt, F, med xln NO NS
60	
70	SH: gray-brn
80	LS: gray-wlt, F, xln, dns brn
90	LS: wlt-lt yellow, F, med xln NO NS
3700	
10	SH: red-brn, slty, musty
20	LS: wlt-lt grn, F, med xln intxln NO NS
30	



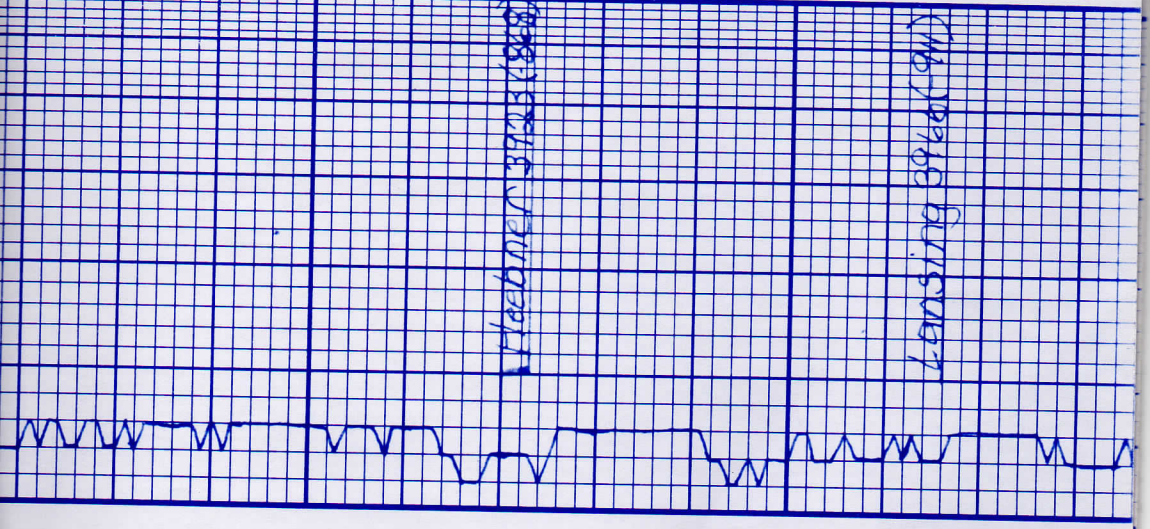
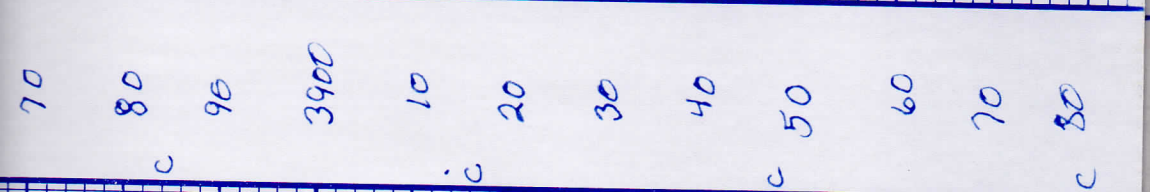
VIS 49
WT 9.0

LS: wlt, med xln, int xln SH: red-brn, med.	40
LS: wlt-tan, f-med xln, int xln FC, tarry bit	50
LS: wlt-tan, f-med xln, int xln SL: dar, SL: SC	60
LS: wlt-tan, f-med xln, int xln XH, few tarry pcs bit	70
SH: red, brn, med, pily.	80
LS: tan-wlt, f-med xln int xln, NO NS FeH	90
LS: tan-wlt, f-med xln, chiky, NO NS.	3800
SH: vari clnd, med, pily	10
LS: wlt-tan, f-med xln int xln, NO NS chik	20
	30
	40
	50
	60



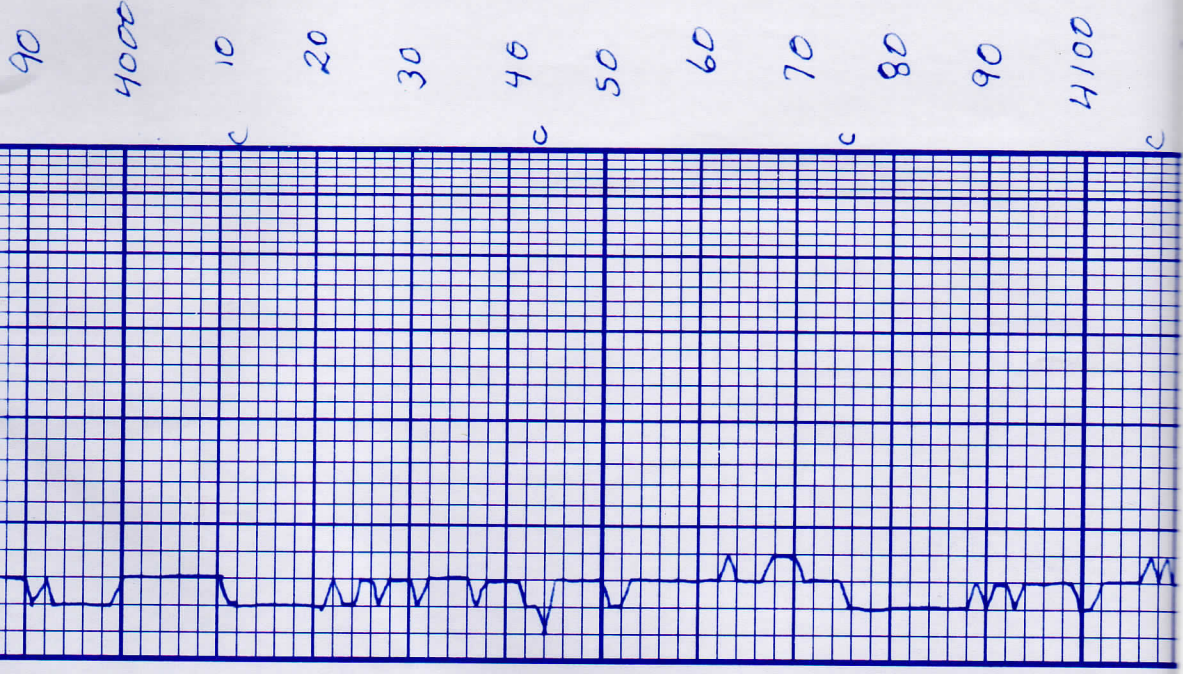
VIS 45
WT 9.5
LCM 2

LS: gry - off wkt, F-med xln NO NS	
LS: tan - gry, F-med xln int xln 0 F 0 NS	
DK, carb SH	
LS: lt gry, F-med xln slidør, Asphaltine	
SS: clr, f med gnd sub rounded, mod srtel NO NS	
SH: Vani clred	
LS: tan F-med xln, ista Xln 0, PP 0 F odor V Sl: 50	
LS: wkt f xln dns V 0 0 0 0 F odor	



VIS 46
WT 9.6
LCM 2

LS: wlt-buff, f-med xln Gator, SFO	LS: wlt, f-med xln, dns- vuggy PPQ, G: odor G: SFO	SH: vari, clrd,	LS: wlt-tan, f-med xln. inter xln, vuggy Fair odor, G: SFO	LS: wlt, f-med xln, dns inter xln, NO NS	Blk, carb, snale	SH: vari, clrd, med, plty	LS: tan, f-med xln inter xln, NO NS	SH: red, rust-brn	LS: wlt, f, n xln, inter xln few vuggy, G: SFO	LS: wlt, f-med xln, vuggy	LS: tan, f-med xln
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VIS 45
WT 10.0
LCM 2

VIS 40
WT 9.8

SH: Vari. clrd, med.

LS: wlt, f, med xln
intexln, barren

LS: wlt, f, med xln
intexln, barren
lt stain, Asphaltine

SH: red-gny med, blk y.

LS: wlt, f, med xln
intexln, barren
few vgs, Jarry / stain

SH: red-gny med, blk y.

LS: wlt, f, med xln
intexln, barren

LS: wlt, f, med xln
intexln, barren
vsl: odor sl: 50

SH: gny-dark gny med.
plty-blky

20

30

40

50

60

70

80

90

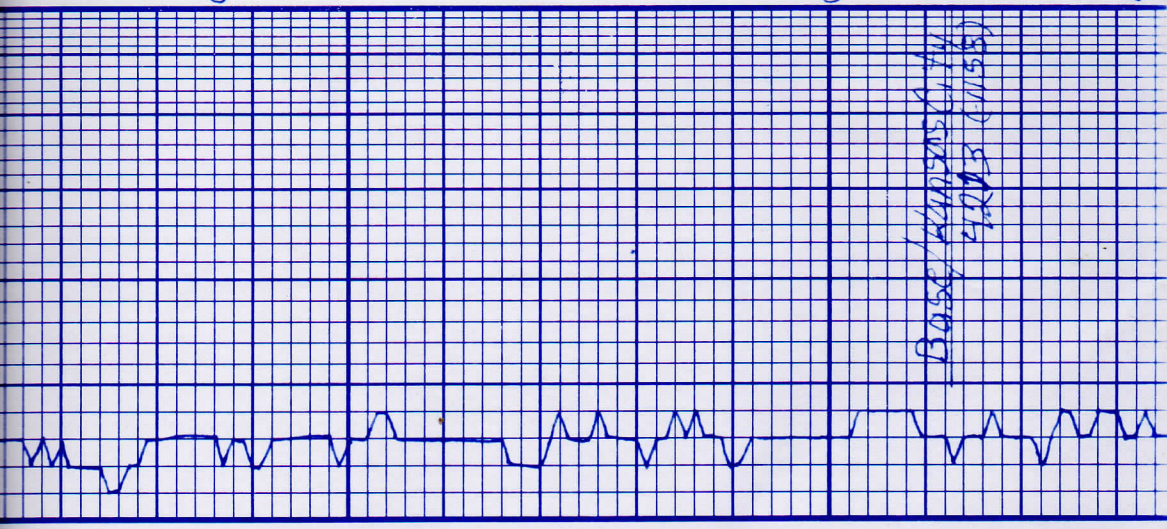
c 4200

10

20

30

Base / 4/10/20/30/40/50/60/70/80/90/100
4/10/20/30/40/50



VIS 41
WT 9.8

VIS 46
WT 10.2

VIS 46

LS: wkt, dis, F, xln
barren

LS: S 9/a

SH: red-gray med

LS: wkt, 17 gny, F, med xln.
SH: Vari clrd.

LS: wkt-tan, F-med xln
intoxln NO NS

SH: Vari clrd, med
biky

Blk carb SH

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

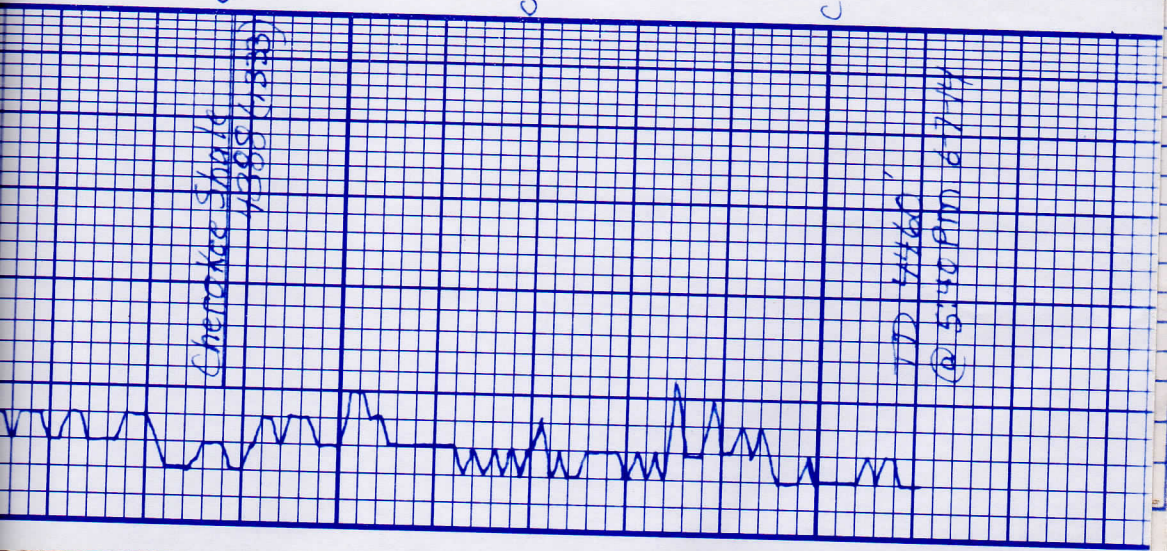
~~Ammonium Van (1998)~~
(1197)



W/ 10.0

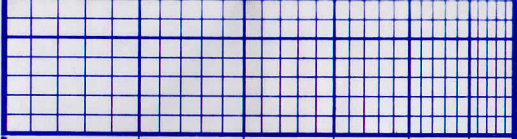
LS: wkt tan, f med xln NO NS	SH: red-brn mod blk y
	Blk, tan to Strake
	LS: wkt tan f med xln barren
	LS: wkt, f med xln, v. q. y w. f. odor SFC
	LS: s g/y
	SH: gry-red, blk y
	LS: wkt tan, f med xln ind xln sli odor Asphaltic
	SH: varic l red med

70
80
90
4400
10
20
30
40
50
60



Chenakka Shakti
1988 (1988)

TD 34460
@ 5:40 PM 6-7-44



5" 10" 15" 20" 25"

DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR White Knight Drllg LLC

LEASE Mayr IP Oil

ELEVATION 3055 KB RTD 4460

LOCATION 4527' FSL E 1458' FEL

SEC 29 TWP 3s RNG 34w

COUNTY Rawlins STATE Kansas