

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>Raymond Oil Co</u>	ELEVATIONS
LEASE <u>#1 Meyers</u>	KB <u>2722</u>
FIELD <u>Wildcat</u>	DF _____
LOCATION <u>NW SE SW</u>	GL <u>2717</u>
SEC <u>24</u> TWSP <u>14</u> RGE <u>33W</u>	Measurements Are All
COUNTY <u>Logan</u> STATE <u>KS</u>	From <u>KB</u>
CONTRACTOR <u>WW #2</u>	CASING
SPUD <u>12-9-15</u> COMP <u>12-18-15</u>	SURFACE <u>8 5/8 @ 260'</u>
RTD <u>4623</u> LTD <u>4625</u>	PRODUCTION _____
MUD UP <u>3330</u> TYPE MUD <u>Chem</u>	ELECTRICAL SURVEYS
	DUAL IND MICRO
	COMP N/D CS LOGGING

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
Anhydrite	2166	2164	558	561		
Base Anhydrite	2187	2184	538	539		
Stotler	3295	3312	-590	-599		
Heebner	3668	3670	-948	-967		
Toronto	3690	3689	-967	-987		
Lansing	3713	3714	-992	-1010		
Stark	3971	3970	-1248	-1275		
BKC	4058	4058	-1336	-1371		
Marmaton	4081	4080	-1358	-1391		
Et Scott	4230	4230	-1508	-1555		
Cherokee SH	4258	4258	-1536	-1583		
Johnson	4301	4302	-1580	-1629		
Morrow SH	4350	4337	-1615	-1667		
Mississippi	4496	4386	-1664	-1817		

REFERENCE WELLS FOR STRUCTURE

- A Mull Drlg Mcquire SVGA 1-25 330'FNL, 2450'FEL 25-14-33W
- B _____
- C _____



REMARKS

Blank lines for recording remarks.

LEGEND

- 

Anhydrite
- 

Salt
- 

Sandstone
- 

Shale
- 


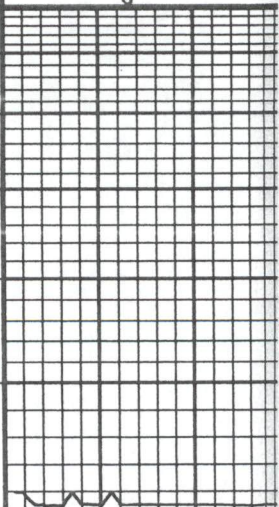
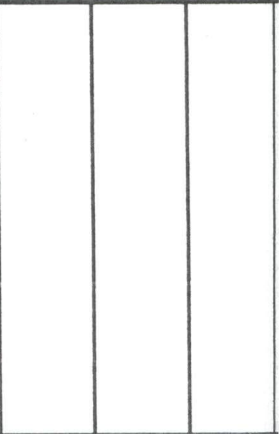

Carb sh
- 

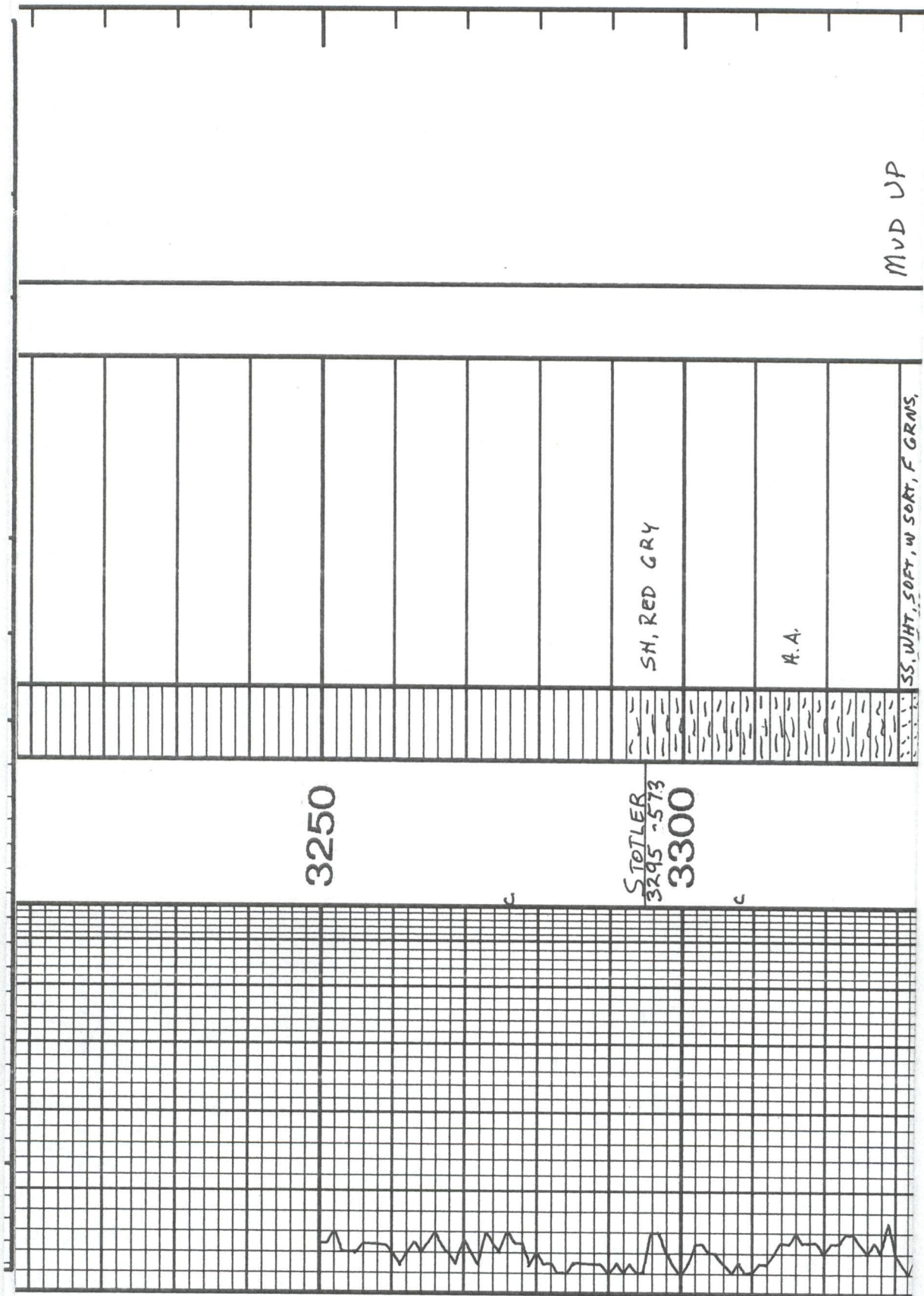
Limestone
- 

Ool. Lime
- 

Chert
- 

Dolomite

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
<p>DRILLING TIME IN MINUTES PER FOOT</p> <p>Rate of Penetration Decreases</p>  <p>5" 10" 15" 20" 25"</p>			
	OIL SHOWS		



3250

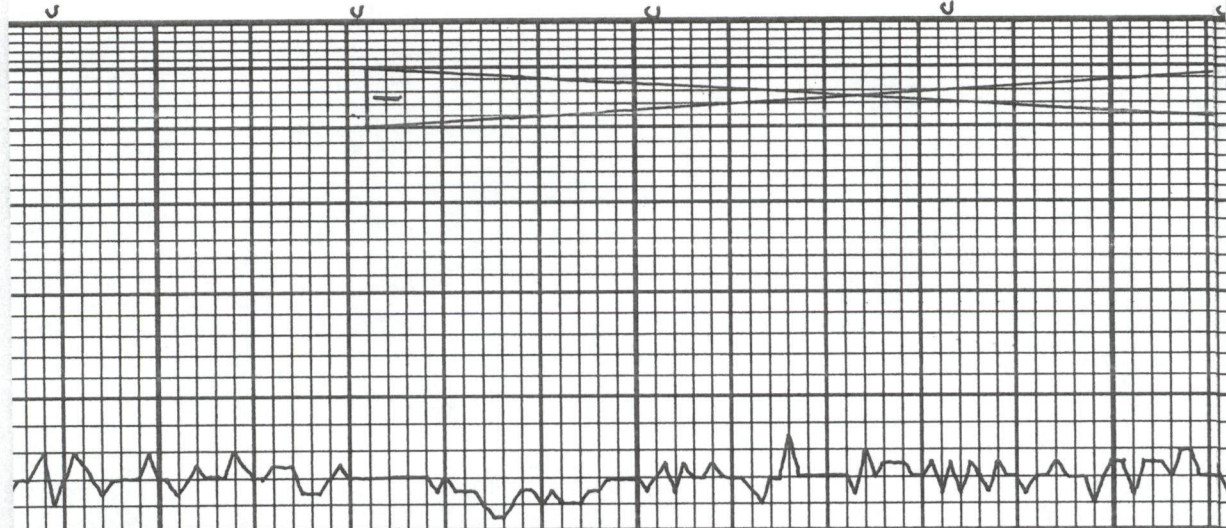
STOTLER
3295-573
3300

SH, RED GRAY

A. A.

SS, WHT, SOFT, W SORT, F GRNS.

MVD UP



SH, RED	
LS, GRY, BRN, FXTLN, DNS, HRD NO VIS Ø, TR SML FOSS, NS	
LS, A.A. INCR VARI SIZE FOSS, NS	
LS, WHT, CRM, TAN, F, MXTLN, SCT PCS "GARTHY" w/ PØ, MOSTLY DNS + NO VIS Ø, NS CHALK Ø 10 Ø 1	
LS, TAN, WHT, GRY, MXTLN, S → M HRD, FOSS, PØ, NS	
IA. A.	
SH, GRY	
LS, GRY, MXTLN, M HRD, NS	
LS, TAN, MXTLN, S → Ø RTLN, G, EVEN STNG, FSFO ON BRK, FEW SPTS FO N/ TRAY, MED BRN FO, NO ODOR "G" INTXTLN OIL FILL Ø	LT RAWBO N/CUP NO ODOR
LS, BUFF, V, FXTLN, Y HRD, G, RPPØ, BLK OIL FILL Ø, NO VIS ENERGY FAIR Ø, NO ODOR	NO ODOR
LS, CRM, FXTLN, FEW SET HRD BLK STNG, VP XTLN Ø	NO ODOR

RIG REPAIRS

MUD CHECK
VIS: 59 WT: 8.6
CHLOR: 2400 LCM: 2
FILT: 7.6

GEO ON LOC^N
12-12-15

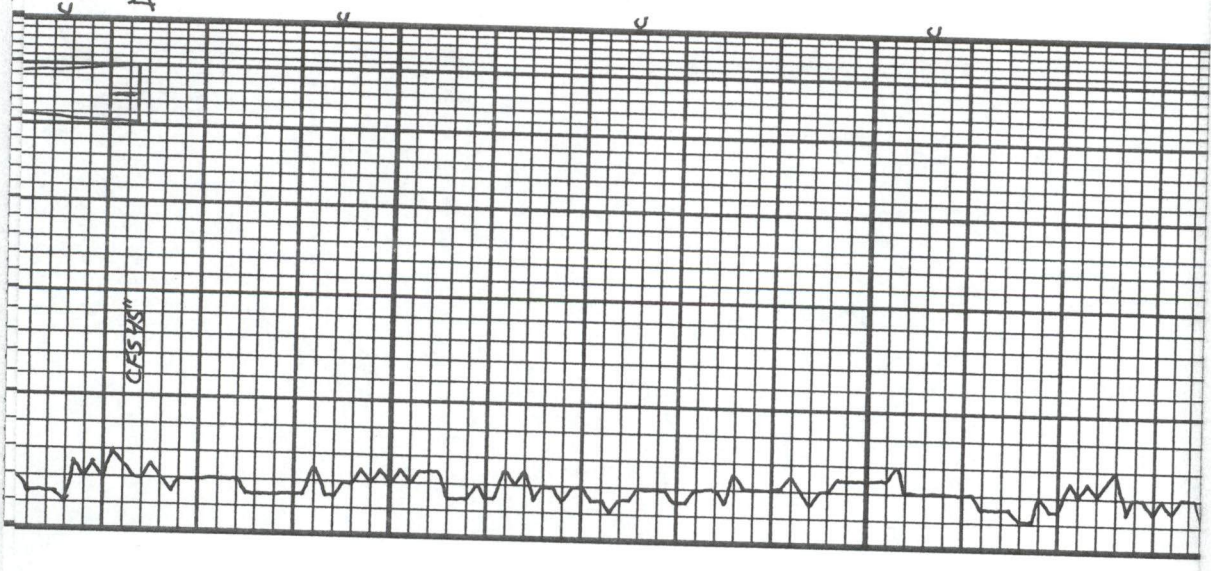
DST#1 3372-3473
30.60: 45.90

IF: 808 9 MIN 151: surf bla
FF: 808 11 MIN FSI: surf bla
REC: 120' MCW - 60% W
120' 5 MCW - 90% W
480' W

FP: 30-190, 195-367
SIP: 1075-1071
HP: 1570-1536

TEST, SHORT TRIP 27
STANDS

MUD CHECK WT: 8.8



CAS 25"

DEV 10

3500

00	CHALK
00	LS. CRM, TAN, LT GRY, F. XT LN, HRD, DNS, TITE, NS
10	LS. WHIT / CRM, M XT LN w/ LG XTL w/n, HRD, VP XT LN Ø, NS
10	LS. TAN, F → M XT LN, V HRD, ABUN VARI SIZE FOSS, NO VIS Ø, NS
10	LS. GRY, M XT LN, HRD, FOSS, NO VIS Ø, NS
00	CHALK
00	CHT, CRM, FRESH, FEW PLS w/LT SET SML FOSS, NS
00	LS. CRM, F XT LN, HRD, SL DNS, TITE, FEW SML FOSS, NS
00	LS. CRM, F XT LN, SOFT, SL CHKY FAIR Ø, NS
00	SH, BLK, CARB
00	LS. CRM, WHY, F XT LN, SCT VARI SIZE FOSS, HRD, P. NS
00	SH, RED, BURG

VIS: 1
 C HLR: 3000 LCM: 2
 FILT: 7.2

TAM 12-13-15
 DST #1 @ 3473'
 STRAP 3495.33
 BOARD 3494.08
 long 1.25'

JUNK BASKET REMOVED @ 3473'



CHALK	SH, RED, STICKY
LS, TAN, FXTLN, HRD, W.C.M.T.D FINE OOLS + FOSS FRAGS, TITE NS	
LS, C.R.M, F → M XTLN, SOFT, CHLKY, ? FIASH ODOR, NS, NO FLVOR, NO STN	
SH, RED, GRY	
LS, C.R.M, F → M GRNLR TXT, S → M HRD, P → TITE, NS	
SH, RED, GRN	
LS, C.R.M, BUFF, VF XTLN, HRD, D.N.S, TITE, NS	
SH, RED	
LS, C.R.M, WHIT, FXTLN, HRD, SCT PCS CHLKY, NO SHO	
A.A.	
SH, BLK, CARB	
LS, GRY/BRN, FXTLN, HRD, VP Ø, NS, IPC VUGGY	
SH, RED	
LS, TAN, VFXTLN, D.N.S, VHRD, TITE, NS	
LS, C.R.M, WHIT, FXTLN, S → M HRD VP Ø, SCT CHLK, NS	
LS, WHIT CRM, FXTLN, MKD.	

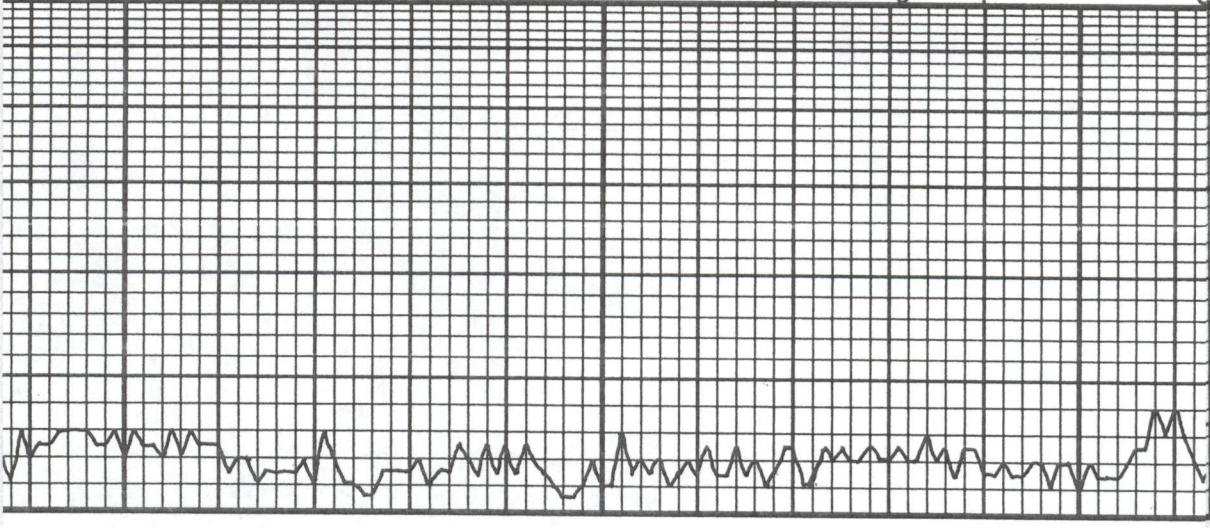
3600

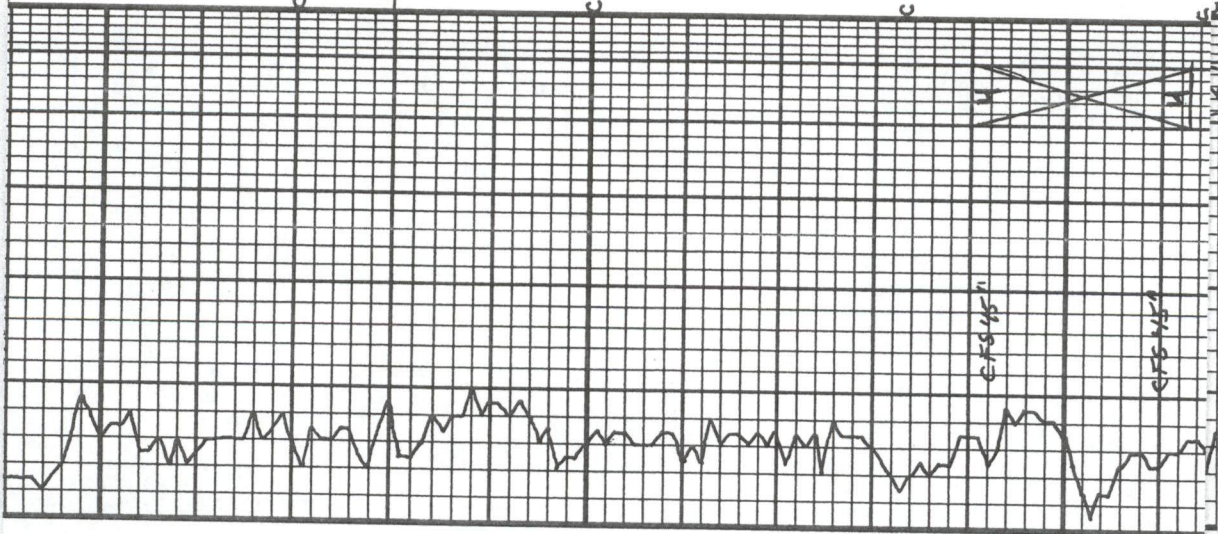
HEEBNER
3668 - 946

TORONTO
3690 - 968

3700

LANSING





LS, BUFF, BRN, VF XTLN, V HRD, DAPS, ABUN FOSS, TITE, NS	SH, BLK/GRN	LS, GRY, WHT, M → CRS XTLN, HRD, SL BRITL, VP INT XTLN, NS	SH, BLK	LS, BRN, TAN, F XTLN, V CHTY, NS CNT, WHT, TAN, SMOKE, FRESH, SHARP, NS	LS, BRN, M XTLN, HRD, LG XTLN, FAIR INT XTLN, NS	SH, GRY	LS, GRM, F → M XTLN, M HRD, F → G XTLN, SCT FOSS, NS	LS, GRY, VF XTLN, D NS, HRD, TITE, NS	SH, BRG	LS, CRM, F XTLN, CHLKY, SOFT, FAIR Φ, NS	LS, SHIN, G, P, BRN, F, X, BLK, HRD.
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7:AM 12-14-15
DRLG @ 3894.

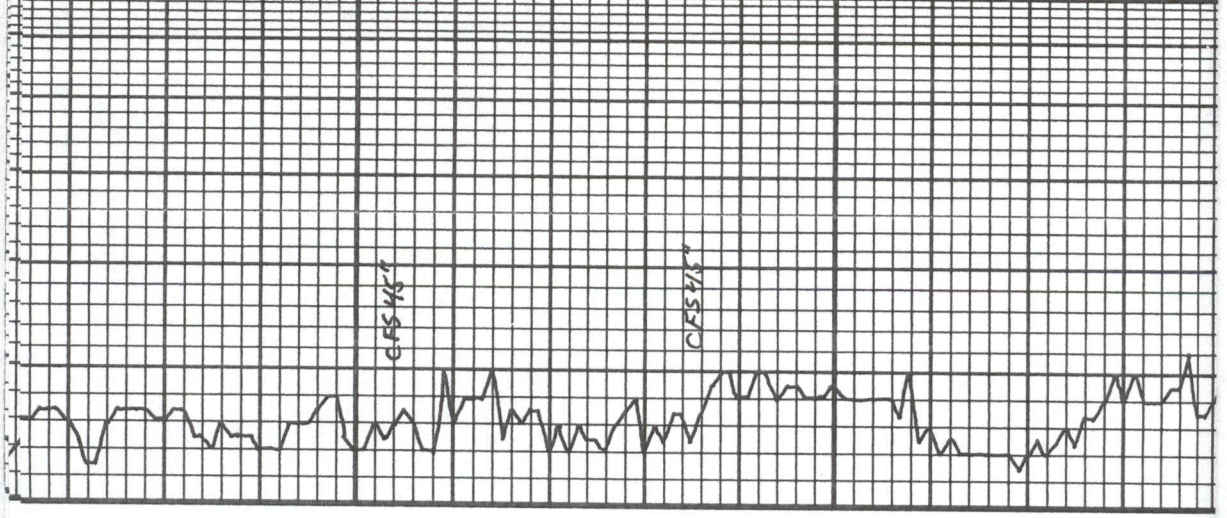
MUD CHECK
VIS: 59 WT: 9.1
CHLOR: 440 LCM: 2
FILT: 8.8

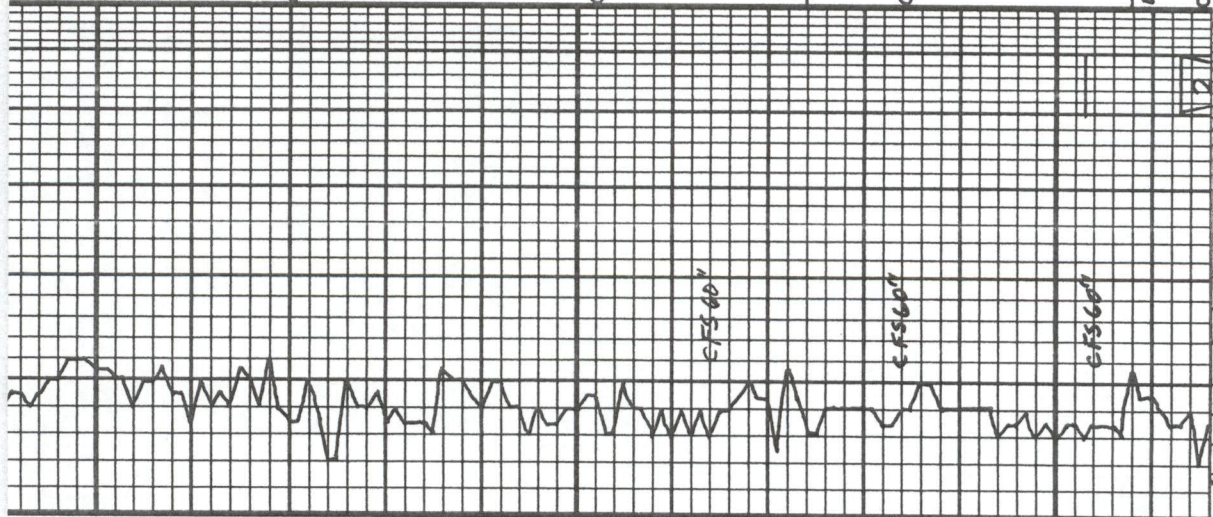
15 STUD SHORT
DST #4 STRADDLE
3940-3963
DD. 10. 11. 12.

50' 60' 45' 40'
 1F: 74" SURF @ 9 MIN
 B10 THRUOUT 15: NR
 FF: SURF BLOES MIN
 B10 THRUOUT FSI: NR
 REC: 115' MW - 60' W
 25,000 CHLOR
 FP: 18-37, 43-66
 SIP: 1203 - 1201
 HP: 2082 - 2004

LS. V. LTH, EXT. IN. COET. CL. CH. IN. W TR FOSS, NO V. S. P. NS	SH, BLK
LS. BUFF, F XTLN, HRD, ABRN FOSS, P-F XTLN P, P. S W/G. OOM G NS, NO ODOR	LS. BRN, F XTLN, HRD, DMS, HRD, TITE, SCT FOSS, NS
LS. BRN, F XTLN, HRD, DMS, HRD, TITE, SCT FOSS, NS	SH, BLK, CARB
LS. TAN, BRN, M XTLN, LG XTLN, Y, M HRD, FOSS, P. P. NS SH, GRAY	LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	LS. BRN, F + M XTLN, DMS, M HRD, TITE, NS
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	LS. WHT, M XTLN, SOFY → M HRD, FAIR P, NS
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	LS. DK BRN, F + M XTLN, V HRD, DMS, NS
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	SH, BLK
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	CHALK, GRAY
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	SH, VARI COLOR, GUMMY
LS. CRM/TAN, F XTLN, SOFY, FAIR P, FEW FOSS, SCT LG XTLN, NS	LS. TAN, WHT, HRD, SCT FOSS, SCT CHALK, P. P. NS SH, GRAY

STARK
 3971-1249
 4000
 HUSHPICKNEY
 4010-1288
 BKC
 4058-1336
 MARMATON
 4081-1359



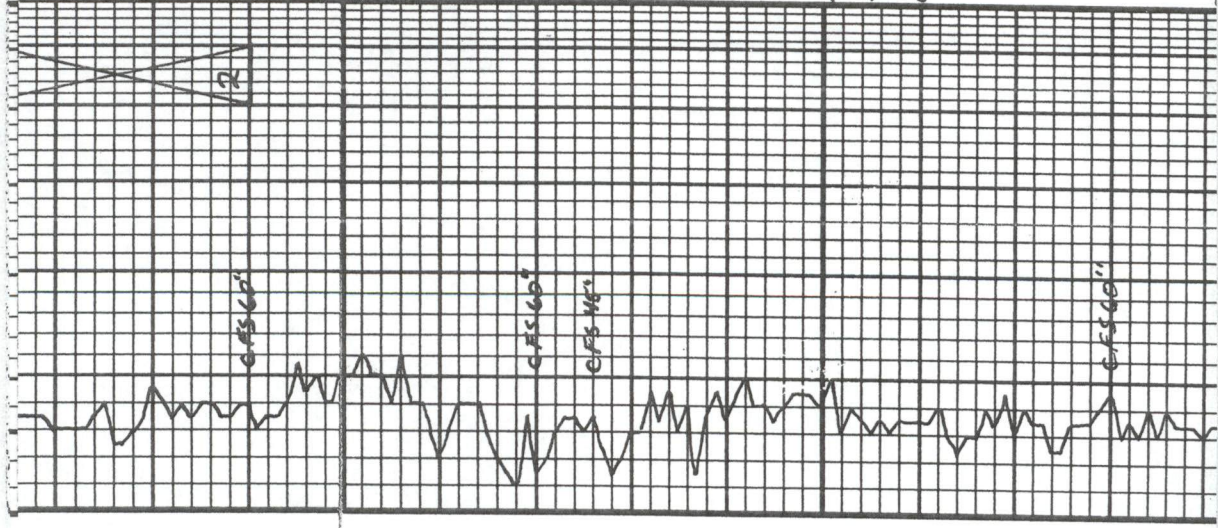


4100
 PAWNEE
 4174-1452
 4200
 MYRIC
 4208-1486

SH, GRN	SH, GRN
LS, WH, F, XTLN, M → V HRD, NO APP, NS	LS, CRN, TAN, LT GRN, VF XTLN, DNS, HRD, TITE, NS
SH, RED, GRN	SH, BORG
LS, BRN, WHT, GRN, VF XTLN, V HRD, DNS, TITE, NS	LS, TAN, VF XTLN, DNS, V HRD, TITE NS
A.A.	SH, GRN
SH, LT + DK GRN/GRN	LS, TAN, CRM, BRN, F → M XTLN, HRD, TITE, SCT FOSS, NS
SH, GRN, GRN/GRN, RED	CHT, GRN, DK GRN, BLK, FRESH, SMOKE
LS, CRM, TAN, LT GRN, VF XTLN, DNS, HRD, TITE, NS	A.A.
SH, BORG	SH, GRN, GRN, GRY, BLK
LS, TAN, VF XTLN, DNS, V HRD, TITE NS	
SH, GRN	
LS, TAN, CRM, BRN, F → M XTLN, HRD, TITE, SCT FOSS, NS	
CHT, GRN, DK GRN, BLK, FRESH, SMOKE	
A.A.	
SH, GRN, GRN, GRY, BLK	

MUD CHECK
 VIS: 64 WT: 9.3
 CHLOR: 5,000 LCM: 2
 FILT: 9.6
 7: AM 12-15-15
 DRLOG 4190

DST #2 4213-4240
 30.60.45.90
 IF: SURF BLO, dead. 25 MIN



FT SCOTT
4230 - 1508

CHEERKEE
4258 - 1536

4300
JOHNSON
4301 - 1579

LS, BRN, DNS, VF XTLN, HRD, FEW/SC FOSS, TITE, NS	LS, BRN, F → M XTLN, HRD, SCT FOSS, NO VIS DNS	LS, WHT, BUFF, F XTLN, W/SC, MED XTLS W/N, GPP, STRKS, G SHO STN W/N D, G S FO ON BRK, 1 PCS HO	60' CIR. RA. 2 PCS SHO EVEN STNG FAIR SFD ON BRK	SH, GRN, GRN LS, WHT, VF XTLN, DNS, HRD, RE XTL SS, CLR, MED GRNS, WIS, D, TIF → G, CMT	LS, TAN, WHT, F, VF XTLN, DNS, HRD WHT - ABOVE FOSS, TITE, NS	SH, BLK, FOSS, CARB	LS, TAN, F XTLN, V LG XTLS W/N, M HRD, G PP → SMALL MUG Ø, G P STN RARE FO ON BRK, NO ENERGY	LS, TAN, WHT, VF XTLN, DNS, HRD, TITE, NS	LS, WHT, VF XTLN, DNS, HRD, TITE NS	SH, GRN	LS, BRN, VF XTLN, DNS, HRD, TITE, NS	SH, BLK	LS, WHT, BRN, F XTLN, W C MT, D OOL + FOSS, HRD, NS	LS, TAN, BRN, VF XTLN, DNS, V CHTY, PYR, NO APP O, NS	CHY, WHT, TAN, APRICOT, OPAQ, SCT RES FOSS, SHARP, NS	LS, TAN, F XTLN, M HRD, NS	SS, CLR, SMALL CRUS, W SORT, FAIR CMT, ABOV BLK RESIDUE, NO ODDOR, NSFO	LS, BUFF, VF XTLN, HRD, V DNS, CLEAN, TITE, NS
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LT MED
BRN FO
NO ODDOR

MED
BRN FO
NO ODDOR

NO ODDOR
W SFD
NAT

SP: BR 025 @ 8 min
REC: 60' M
FP: 37-41, 40-45
SIP: 305-413
HP: 2217-2148

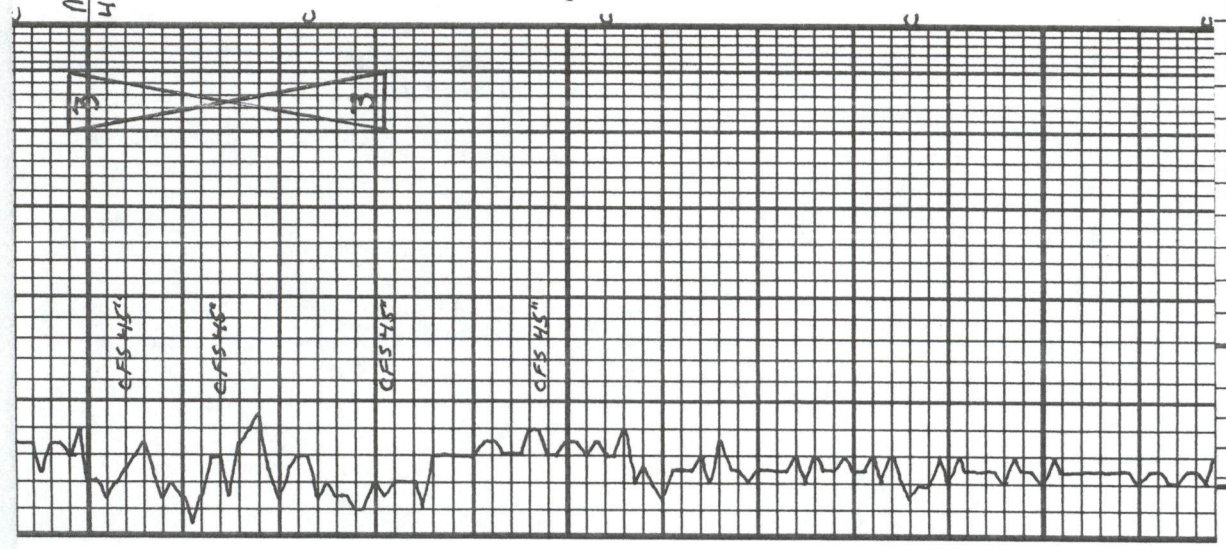
20 STND SHORT TRIP

6 sho pcs

7: AM 12-16-15
CFS @ 4276'

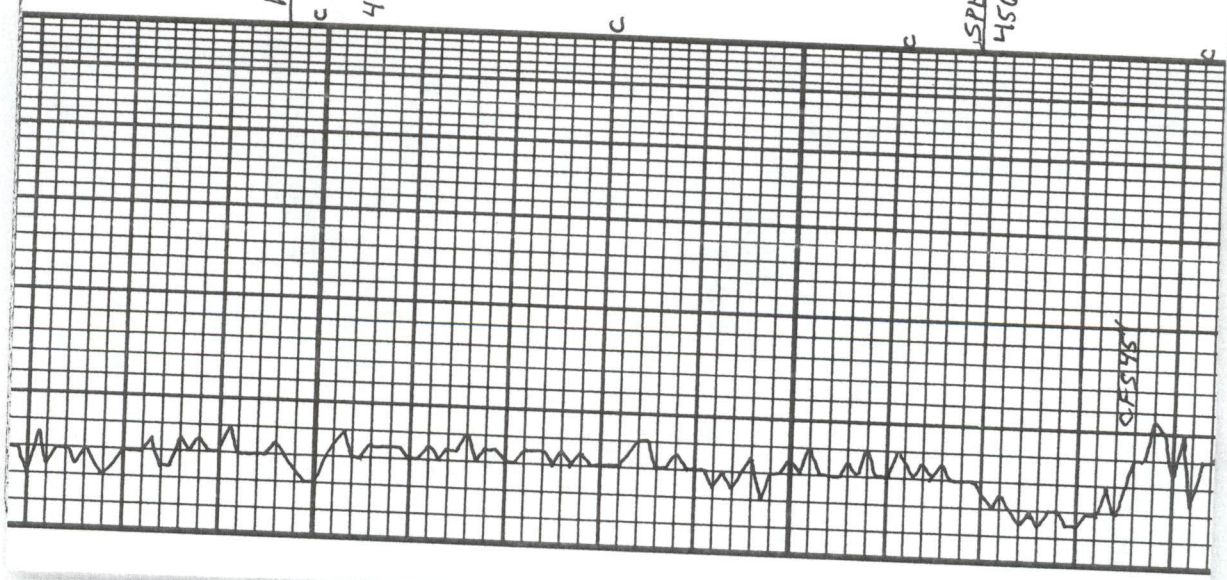
MUD CHECK
VIS: 59 WT: 9.1
CHLOR: 4,000 LCM: 2
FILT: 8.8

DST 3 4348-4381



SH, GRN, GRN, PYR	SS, F RND GRNS, W SORT, SOFT, WHT CHLKY CNT, NS	SH, GRN, GRN, PYR	SS, V W CMT ID, SML, W SORT, V HRD, TITE, NS	SH, BLK, DK GRV	SS, V, SHLY, WHT, FINE GRNS, SOFT, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, V ARICOLOR	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SS, WHT CMT, FAIR CMT, M HRD CLUSTERS, ABUN BLK SB OIL COATED CLUSTERS, V FLUOR OIL SPITS ON BK, FAIR & 2. FLUOR NAT FD SPITS IN TRAY	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, BLK - STICKY, GRN, GRV	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRY, BURG, ABUN PYR	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRY, GRN / GRV	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SS, F RND GRNS, W SORT, SOFT, WHT CHLKY CNT, NS	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRY, GRN, PYR	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRY, GRN	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRY, GRN, RED	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	LS, WHT CRM, F XTLN, V BRILL, SS, SOFT, P, NS	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SS, WHT CMT, CLR GRNS, V CHLKY, FAIR SORT, NS	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	LS, CRM, WHT, F → M XTLN, SOFT, BRILL, 1 PC BOLD - BUFF, GANLR	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRY, GRN, BURG	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS
SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	SH, GRN, GRN, PYR	A.A.	SH, BLK, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	SH, DK GRV	SS, V SML → SML CLR GRNS, P SORT, RND, SOFT → FRIABLE, G P, NS	M HED, FAIR CMT ID, P, NS

30.60.45.90
 IF: BOB. 10 MIN 151:NB BB
 FF: BOB. 13 MIN FSI:NB BB
 REC: 140' MCW - 65' W
 120' SMCW - 90' W
 660' W
 FP: 52-239, 247-450
 SIP: 1290-1280
 HP: 2203-2160
 1pc SHO RK
 7:AM 12-17-15
 CFS@ 4397,



SH, LT + DK GRN, GRN BRN SCT BRN SS, CLR GRNS, MED, W SORT, V SOFT, VG F, NS	SH, VARI COLOR, BRIG GRN, GRN W/ MUSTARD SH	SH, AA, FLOOD, SCT LS Pcs? SLUFF	LS, WHT, FXTLN, SL FOSS, HRD, V SHLY + SPY, PYR	SH, GRN, GRN, SCT LS-WHT, FXTLN, M HRD, NO VIS P, NS FEW Pcs W/FOSS, Pcs DOLD-TW	LS TAN, WHT, SCT DOLD-TAN-GRN V SHLY - ? FLOOD	LS TAN, WHT, FXTLN, DNS, HRD	LS, WHT, TAN, GRN Y TXT, M HRD DOLITIC, NS	LS, WHT, V LT GRN, GRN Y TXT, M HRD, DOLITIC, NS	LS, BRN, FXTLN → GRN Y, FOSS M HRD, P P, NS	A.A. - ABUN SH-GRY	SH, FLOOD, GRY	DOLD, WHT, V FXTLN, LT GRN DNS, SOFT, NO VIS P, NS 2 Pcs CHINA WHT SS, VF GRNS, SUCR FRIABLE, NS	DOLD, BRN, VF, DNS, HRD, TITE NS	LS, BRN, VF XTLN, V DNS, V HRD, SCT GRY FOSS W/N, TITE, NS
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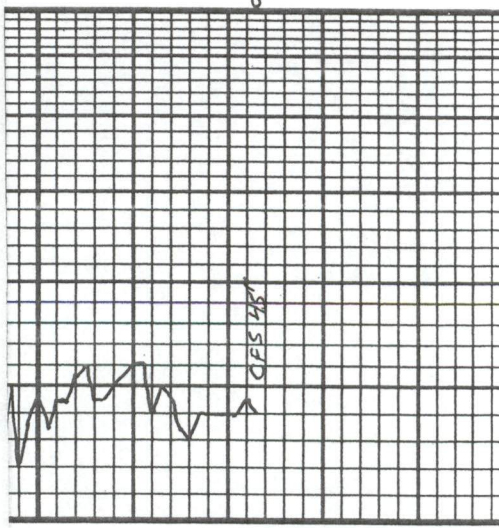
MISS
4500
4496-1774

SPERGEN
4569-1847

MUD CHECK
VIS: 57 WT: 9.3
CHLOR: 6,500 LCM: 2
FILT: 10.2

SH + SP FLOOD

SHALE FLOOD



4600

DEV 3°

LS, BRN, GRY, F → M, XTLN, V LG, XTLN, W, DMS, VHRD, TITE, NS

LS, AA, SCT BLK CHT - FRESH

LS, BRN, BRN, GRY, VFX, TLM, DMS, VHRD, TITE, NS

LS, GRY, TAN, F, XTLN ENCRUSTED

ODLS, VHRD, NS

12-18-15 7:AM
 FINISH LOGGING @
 4623
 MUD CHECK
 VIS: 78 WFT 9.5
 CHLOR: 8,000 LCMIZ
 FILT: 11.2

