

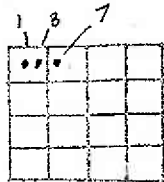
George E. Petersen c/o.g.
consulting geologist

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GEOLOGIST'S LOG

3-14

COMPANY: L.D. DRILLING INC
 WELL NAME: HENRY TRUST #7
 LOCATION: NW, NW, NE, NW 325' FWL 1475' FWL
 SEC. 35 T. 6 S. R. 13 E.
 COUNTY: JACKSON STATE: KANSAS
 ELEVATION: 1180.5361 1190.18
 API #: 15-085-20091-00-00
 FIELD: Forest City Coal Basin
 CONTRACTOR: SUMMIT DRILLING INC
 GEOLOGIST: GEORGE E. PETERSEN
 SPUD DATE: 6/8/14 COMP. DATE: 6/13/14
 SAMPLES SAVED FROM: _____ TO: _____
 SAMPLES EXAMINED FROM: 1250 TO: TD
 RTD: 3478 LTD: 3468
 CORES: N/A
 OPEN HOLE LOSS: Micro, DIL, CND, Sonic
 SURFACE CASING SET: 360' PROD. CASING SET: Yes
 GEOLOGICAL SUPERVISION FROM: Surf TO: TD
 COMMENTS: VIOLA very similar to #4 & 6 wells
should be good well

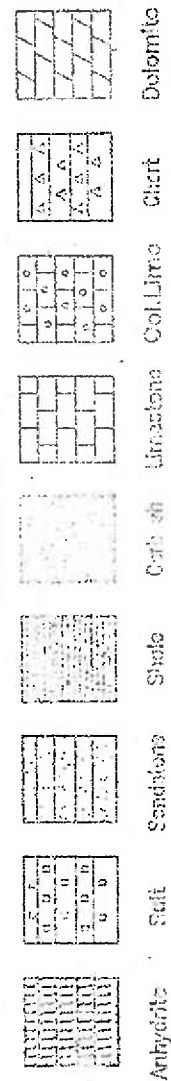


FORMATION TOPS & STRUCTURAL POSITION							
FORMATION	SAMPLE TOP	ELECTROD. DATUM LOG TOP	REF WELLS				
			A	D	C	D	
HEEBNER		1085	+105	+113	+115	+112	+112
LANSING	1297	1299	-109	-97	-101	-101	-101
B/KC	1640	1640	-449	-440	-441	-443	-443
Cherokee	1837	1844	-653	-646	-648	-649	-649
Miss	2520	2520	-1331	-1320	-1307	-1327	-1327
Kinderhook	2602	2598	-1407	-1408	-1420	-1398	-1393
Hunton	2856	2852	-1657	-1644	-1634	-1641	-1641
Magunkota	3348	3334	-2143	-2108	-2123	-2117	-2117
Viola	3404	3402	-2211	-2174	-2195	-2182	-2182
Sp. Gr.					-2361		

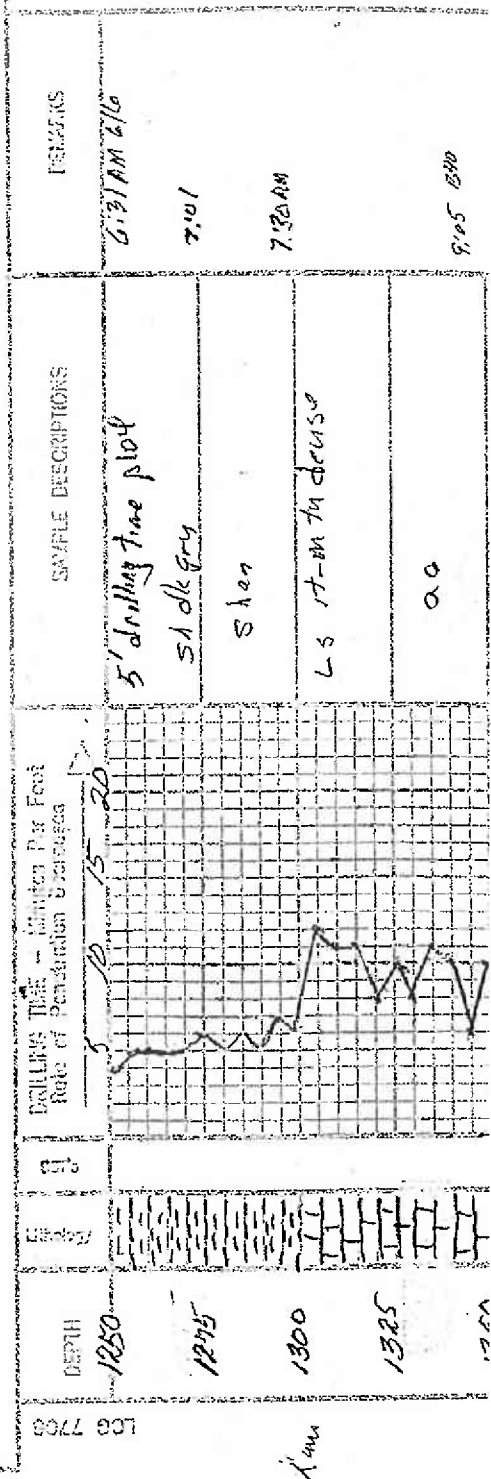
REFERENCE WELL FOR STRUCTURE:
 A. HENRY TRUST #3
 B. HENRY TRUST #1
 C. HENRY TRUST #6
 D. HENRY TRUST #5

DRILL STEM TESTS						
NO.	INT.	IPP	ISIP	FPF	FSIP	RECOVERY
1	2850 2865		Tool slid 10' 4' mud remaining unable to test desired zone due to fill up			Rec 5' mud 2% oil
2	3380 3414		unable to close tool after, it open Drillpipe stuck to side of hole 50k over string wt to pull tool No further test attempted due to hole conditions			500' water & mud with 1-2% oil

LEGEND



SCALE 1" = 100'



aa
aa
aa
aa
SS f-mgn titegiz
SH aa
aa
aa
SH aa TALS
Coal SHas
SHaa stty sandy
aa
aa
Coal SHaa
aa
aa
aa
aa
SHaa
SHaa Tn dense ls
SHaa
SHaa T TALS
SHaa Tn SS
SHaa
SHaa Tn SS
SHaa
SHaa
Coal SHaa
Coal
aa
aa
aa
aa
aa
aa
aa
aa
aa

2005 12:01

2041 1:01

2063 2:00

2090 3:02

2120 4:00

2152 5:00 PM

218 6:00 PM

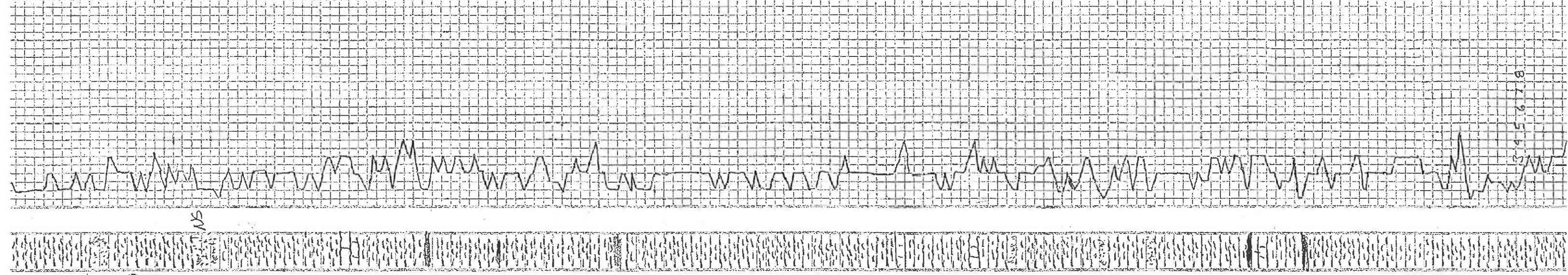
2208 7:00 PM

2236 8:00 PM

2263 9:02 PM

Displacement

2285 4:01 AM



2000

2050

2100

2150

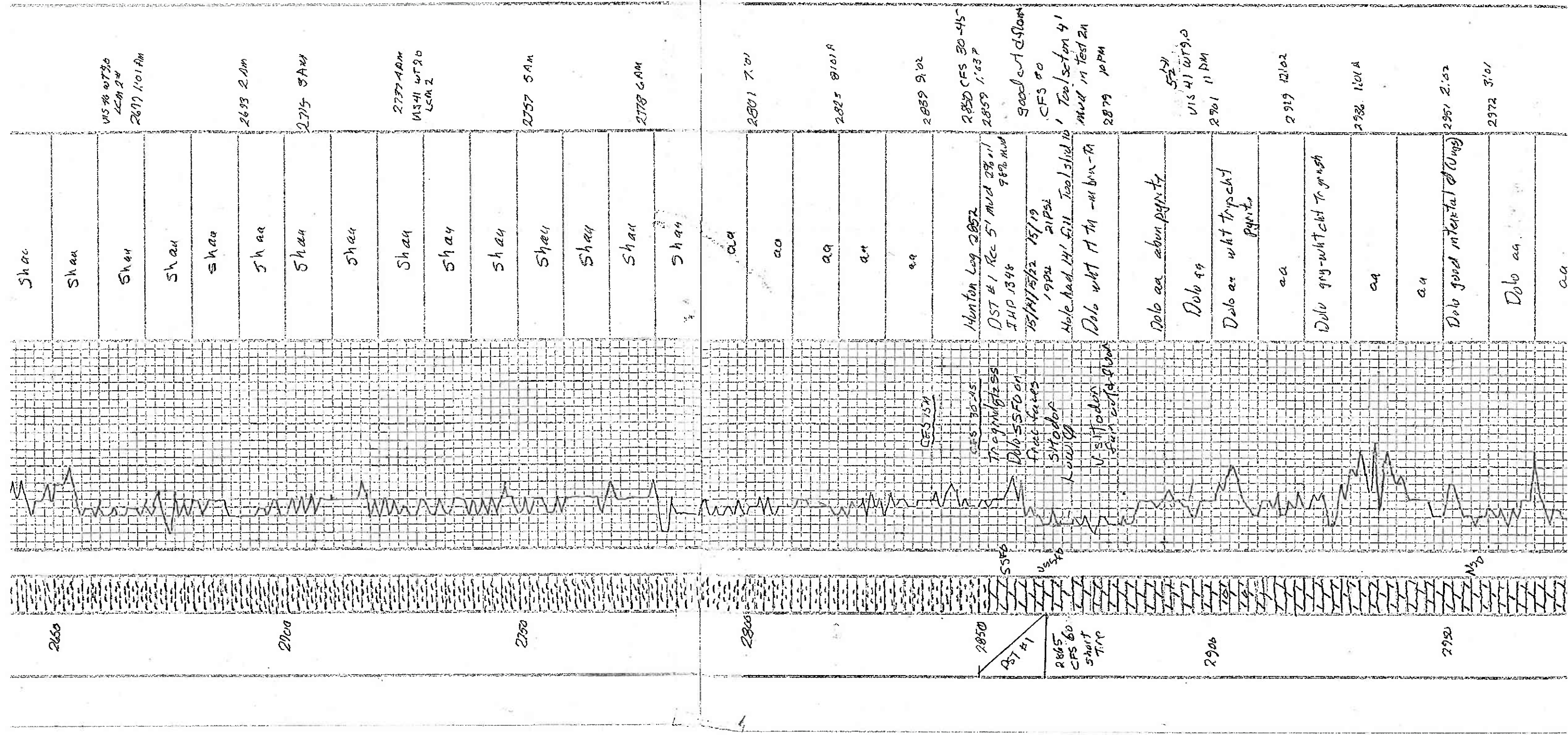
2200

2250

2300

NS

3 4 5 6 7 8



Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

Shale

aa

aa

aa

aa

aa

Munton Log 2852

DST #1 Rec 5' mud 28.11

JHP 1348

15/11/15/12 15/19

1904 2192

Hole had 14' fill Tool/Slide 10

Dolo w/ht 17M - mbrn-Ti

Dolo aa abun pyrite

Dolo aa w/ht tripcht pyrite

aa

Dolo gray-w/ht chert to graysh

aa

aa

Dolo good intertal (Ung)

Dolo aa

aa

2650

2700

2750

2800

2850

2900

2950

VIS 46 WT 20
LCM 24
2677 1:01 AM

2693 2 AM

2715 5 AM

2737 AM
VIS 41 WT 20
LCM 2

2757 5 AM

2778 6 AM

2801 7:01

2823 8:01 A

2889 9:02

2850 CFS 30-45
2859 1:03 P

good cut down
CFS 00

1 Tool/section 4
mud in test 21
2879 10 PM

5:21
VIS 41 WT 20
2901 11 PM

2919 12:02

2926 1:01 A

2951 2:02

2972 3:01

SS 56

SS 48

M 30

DST #1

2865
CFS 60
short
TIP

CFS 154

CFS 30-45

Tr 99 mud 12 SS

Dolo SSFO on

Free faces

Siltstone

Low Q

Siltstone

Thin inter-bed

Vis 46079.1
LCM 5
9 002 4:05 AM

3026 5:00 AM

3062 6 AM

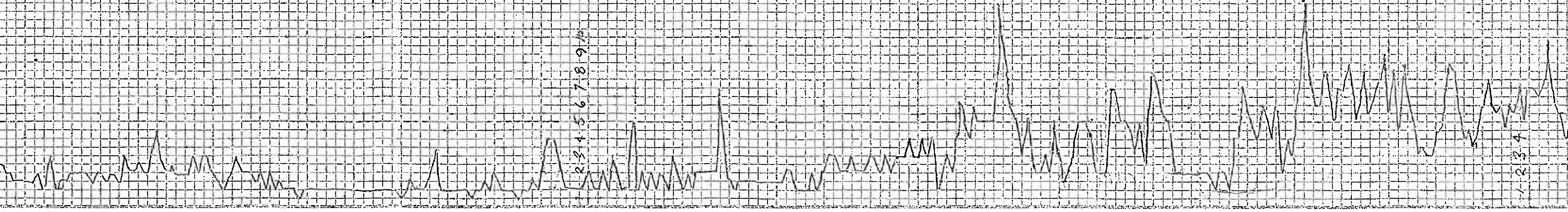
3095

3126

3149
LOSING CIR
PULL & STANDS
MIX MUD

Vis 45 LCM 6
WT 9.1
Dolo. Hgry

aa	aa	aa	aa	aa + some whitcl	Dolo aa	aa	aa	aa	aa	aa	aa	Dolo aa	Dolo wht good inter stalp	aa	aa	aa	aa	aa	aa	Dolo wht dense lessd same grey dolo	aa	aa	aa	aa	aa	Dolo aa	Dolo aa	aa	Dolo wht-Hgry	aa	aa
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2 3 4 5 6 7 8 9 10

1 2 3 4

3000

3050

3100

3150

3200

3250

3300

Log Top Mq 3334
Sample Top 3346

UIS 92 82 LHM4

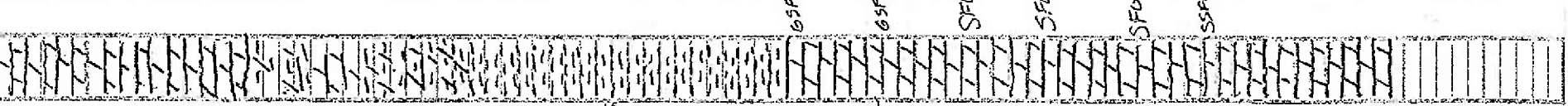
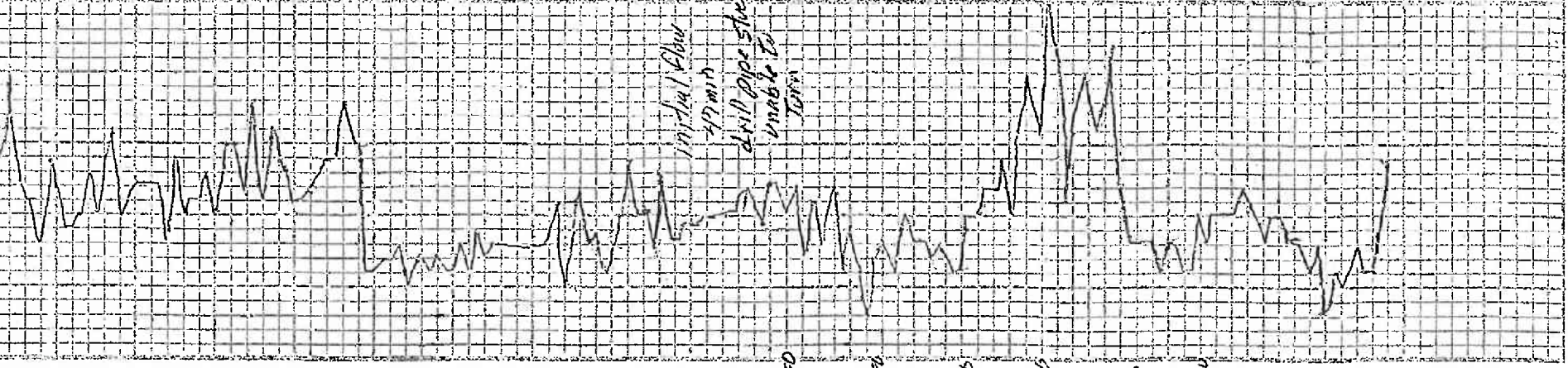
3379
CFS 30 min

3398 CFS 30-45
Log Top Uicla 3402

3415 CFS 30-45
3418 CFS 45

RTD 3496

aa	
aa	
aa	
aa	
Dolomitic gypsmsk	
Dolo sh aa	
sh gry grn shty dolo	
Sh aa	
Sh aa	
Sh aa	
vsH odor Dolo Hrgy in brn excellent interstitial @ mod odor oil MBrn Brite streaming cuts g and floor excellent interstitial @	
aa deer odor Excellent interstitial @	
aa deer odor	
V SH sh free oil	
Dolo M - m brn vextind	
Dolo aa	



3330

3380

DST nr

3400

3414

8450

3