

PATRICK J. DEENIHAN

Licensed Geologist No. 234

4502 Spyglass Circle

(316) 640-5611

Wichita, KS 67226

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR SHAKESPEARE OIL Co., Inc
 LEASE ZERR TRUST # 2-23
 FIELD ANTELOPE RIDGE EAST
 LOCATION 1700' FSL & 620' FEL
 SEC. 23 TWP. 13 RGE. 31^W
 COUNTY GOVE STATE KANSAS

ELEVATION
 KB 2892'
 DF _____
 GI 2882'
 Measurements Are All
 From 2892 KB

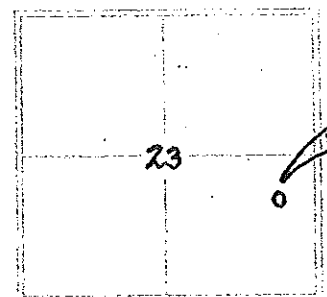
CONTRACTOR VAL ENERGY RIG #7
 COMM. 9-30-11 COMP. 10-11-11
 PAD 4675 LOG TO 4675
 SAMPLES SAVED FROM 3750' TO T.D.
 DRILLING TIME LEFT FROM 3700' TO T.D.
 SAMPLES EXAMINED FROM 3800' TO T.D.
 GEOLOGICAL SUPERVISION FROM 3800' TO T.D.
 MUD #P 3371' TYPE MUD CHEMICAL
 API # 15-063-21944-00-00

CASING RECORD
 SURFACE 8 5/8" SET @
225' W/165
 PRODUCTION N/A

WELL LOG SURVEYS
 CND; DI/SP; PE, MICRO

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
BASE/ANHYDRITE					
HEEBNER SHALE	3910	(-1018)	3910	(-1018)	
LANSING	3951	(-1059)	3954	(-1062)	
MUNCIE CREEK	4108	(-1216)	4108	(-1216)	
STARK SHALE	4193	(-1301)	4194	(-1302)	
HOSH PUCKNEY	4229	(-1337)	4228	(-1336)	
BASE/Ks. CITY	4266	(-1374)	4266	(-1374)	
PAWNEE	4385	(-1493)	4386	(-1494)	
LOWER CHER. SH	4472	(-1580)	4471	(-1579)	
JOHNSON ZONE	4516	(-1624)	4515	(-1623)	
MISSISSIPPIAN	4572	(-1680)	4570	(-1678)	

WEATHER FORD




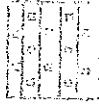
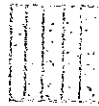


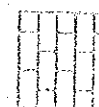
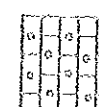
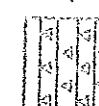

REFERENCE WELL FOR STRUCUTURAL COMPARISON SHAKESPEARE OIL Co., INC.'S
1-23: SEC. 23-13-31^W; 840' FSL & 1220' FEL; GOVE Co., Ks.

REMARKS: IT WAS RECOMMENDED AND AGREED UPON BY ALL PARTIES CONCERNED THAT THIS WELL BE PLUGGED AND ABANDONED ON 10-11-11.

PATRICK J. DEENIHAN

Patrick J. Deenihan
 PETROLEUM GEOLOGIST

LEGEND

-  Anhydrite
-  Gull
-  Sandstone
-  Slate
-  Carb. sh
-  Limestone
-  Coll. Lime
-  Chert
-  Dolomite

SCALE 1" = 100'

DEPTH	DRILLING TIME	SAMPLE DESCRIPTION	REMARKS
0	0		
5	5		
10	10		
15	15		
20	20		
25	25		
30	30		
35	35		
40	40		
45	45		
50	50		
55	55		
60	60		
65	65		
70	70		
75	75		
80	80		
85	85		
90	90		
95	95		
100	100		
105	105		
110	110		
115	115		
120	120		
125	125		
130	130		
135	135		
140	140		
145	145		
150	150		
155	155		
160	160		
165	165		
170	170		
175	175		
180	180		
185	185		
190	190		
195	195		
200	200		
205	205		
210	210		
215	215		
220	220		
225	225		
230	230		
233.0	233.0		

7:00 A.M. DEPTH
 9-27-11 - MURU
 9-28-11 - OFF
 9-29-11 - OFF
 9-30-11 - SPUD
 10-01-11 - 222
 10-02-11 - 1808
 10-03-11 - 2553
 10-04-11 - 337

3800

50

SH, BLACK CARB

LS, WHT, CRM - SING - FO-XLN, CHALKY
TRC OF P-FSSL, SILTY GRAY SH

SH & VN-G-SS - GRAY SILTY; LS (A)

LS, WHT, LT GRAY - FN-XLN, SIL - FSSL
ABUND CHALKY

LS, WHT - SING - P-FSSL & CHALKY

LS, (A) R

LS, WHT, LT GRAY - DEESE-XLN - P-FSSL
CHALKY W/DEPTH

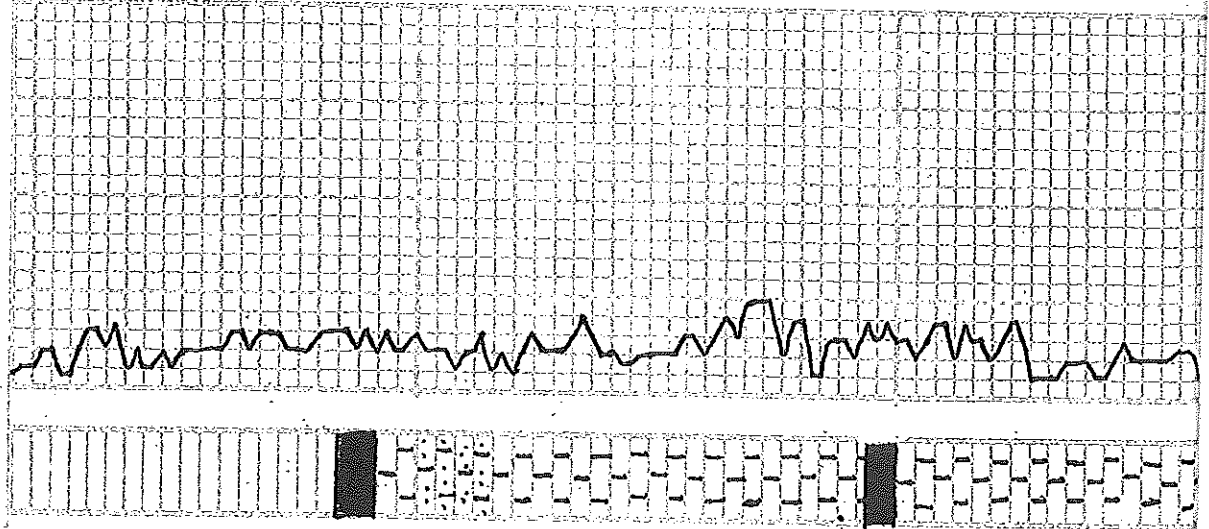
LS, LT-GRY, CRM - SING - P-OOB & CHALKY

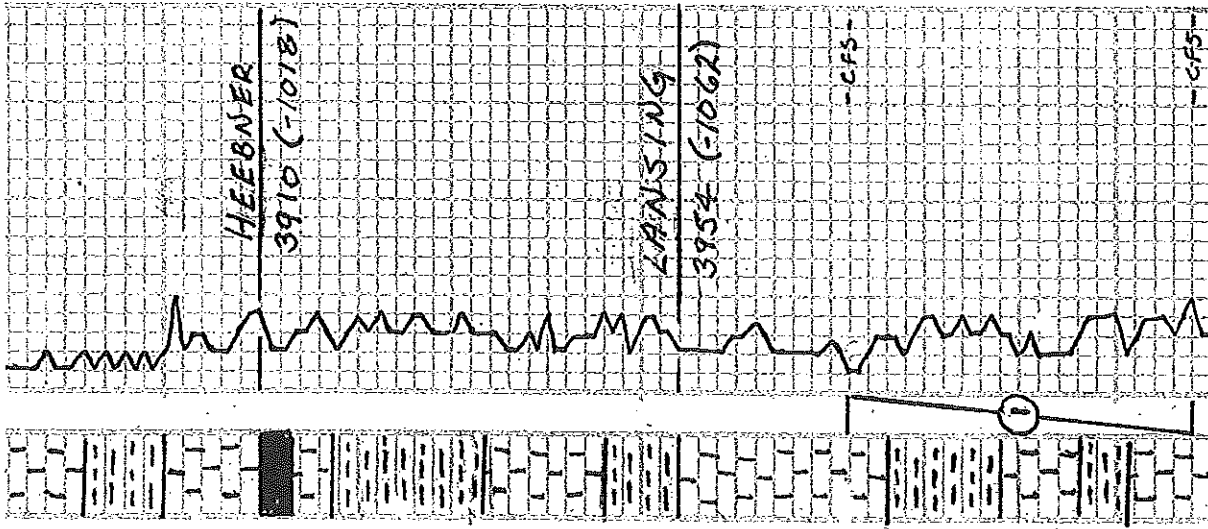
SH, BLACK CARB

LS, WHT, LT GRAY & CRM - SING - CHALKY
P-FSSL

LS, WHT, LT GRAY - SING - FO-XLN, SIL -
FSSL & CHALKY

LS, WHT - SING - FO-XLN & CHALKY





3900

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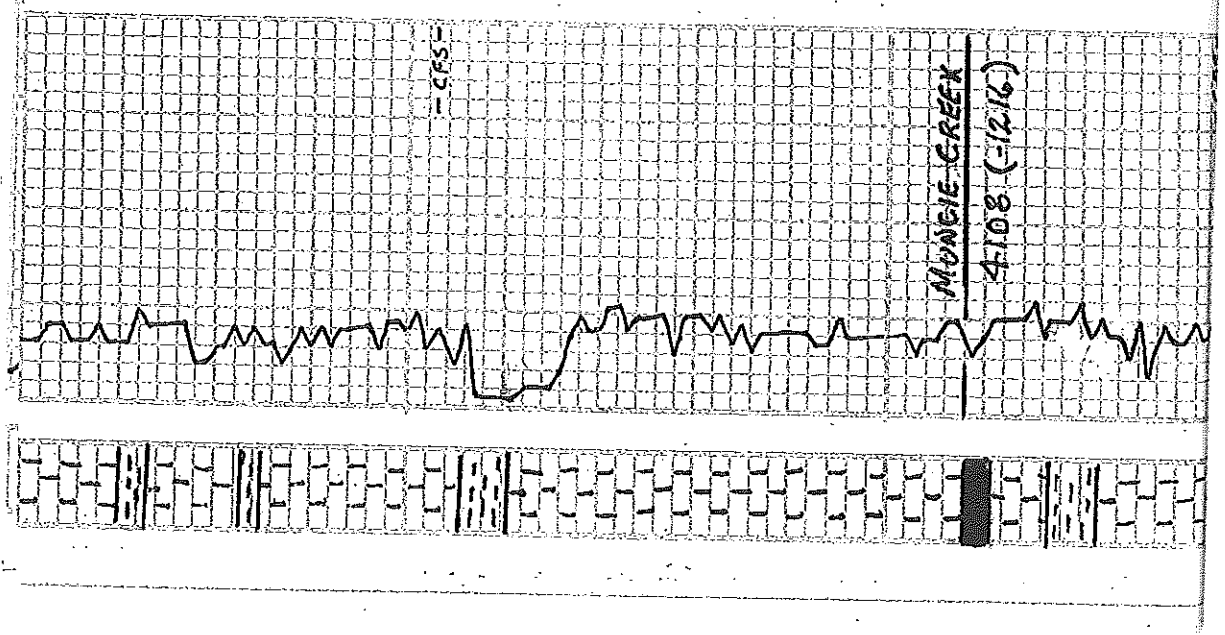
4000

SH., RED. GRAY - SLI - VARI - COLOR
 LS., WHT - CRM - SIMG - FSSL - EN - XLN
 P - INTER - YUN - CHALKY
 SH., BLACK CARB.
 SH., GRN, GRAY & BRNS.
 LS., WHT - CRM LT GRAY - FSSL - CRMPD -
 XLN TO CHALKY - NO SHOW
 SH., GRAY, BRN, GRN - ARGIL
 LS., WHT - CRM - TRC OF GRAY - SIMG TO
 XLN - SLI - FSSL - SUB - CHALKY
 NO SHOW
 LS., R/P - WITH INCR. IN CHALK
 SH. - GRAY - GRN, BRN - ARGIL
 LS., WHT CRM - SIMG - FSSL (OD) FA - XLN
 CHALKY (2) DEPTH - F - G, SLED - BRN
 TO BLK - FAIR ODR - SEAT - BRIGHT
 GOLD TO DULL FLDR
 SH., VARI - COLOR
 LS., GRN SIMG - FA - XLN - FSSL - SLI - ODL
 P - SPO (PRE - BLACK) - FRINT - ODR
 CHALKY (2) DEPTH

* PLEASE NOTE: SHORT TRIP WAS
 PULLED TO SURFACE CS9 - PULLED
 TITR ALL THE WAY.

DST # 1 3912 - 4008
 IS - 30 - 30 - 60
 IF: 608 IN 13" - NO BLOW BACK
 FF: 608 IN 20" - NO BLOW BACK
 REC: 434' WTR (95% WTR - 5% M)
 IHP: 1948 FHP: 1903
 IFP: 25-98 FFP: 106-219
 ISIP: 1171 FSIP: 1150
 CHL: 48,000 CNL: 2-300 (SYS)
 BNT: 124

PIPE STRAP: 4.39' SHORT TO BOARD
 V - HIGH WINDS
 DEV: 340
 VLS: S1 WT: 9.1 WL: 7.2



MUNGIE CREEK
4108 (-1216)

-CFS-

4100

LS, DHT-CRM-SING-TO-XAN-CHALKY
SH, GRAY TO SLI-VARI-COLOR

LS, DHT-SING-SLI-FSSL-ABUND
CHALK-SAMPLES WASHES DHT
LINE OF BLK OIL STN ON EDGES
OF SLI-CHERT LS. NO ODP-NO
FLUOR-DRY SAMPLES LOOK V. CHALKY
SH, VARI-COLOR

LS, LIGRY-GRY-SING/SLI-MDT-
V-FSSL-PRED. OIL TO OIL &
V-CHALKY-NO SHOW

LS, DHT-GRY-FSSL (COOL DOC) - MITIGRA
STN - CHALKY (W) DEPTH

SH, BLK, GRY, BRN, DRG, GRN-ARGIL

LS, CRM-TAN-SING-V-FSSL-ABUND. OIL
TRACER OF OIL TO BRN. - NO SHOW

LS, CRM-TAN-SING-V-FSSL (ABUND-
OIL & CHALK LS. NO SHOW

LS, TAN-SING-FSSL (OIL) P-PO-XAN
& CHALKY

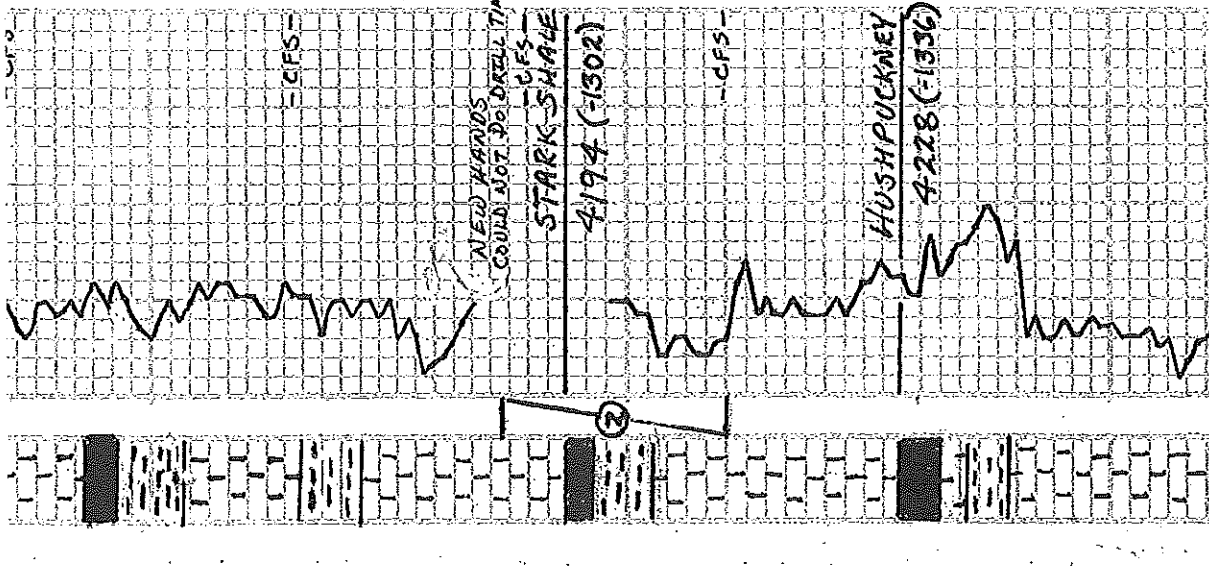
SH, BLACK CARB

LS, DHT-SING-CHALKY. DHT OPAQUE
FSSL-CHERT (FRESH) NO-SHOW

SH, BLACK, GRY-SOME GRN-ARGIL

LS, DHT-GRY-SING-TO-XAN-FSSL
CHALKY NO-SHOW

CHL; 2300 LCM; 1R



SH, BLACK CARB

SH, BLACK CARB, GR, BRN GRN - ARGIL

LS, WHT GRM TAN GRY-SING FAN-FA - FSSL COOL - CRYPTO-XLN-SUB - CHALKY W/DEPTH - TRC OF DRAD - OIL STN ON EDGES OF V-FEWDERS - NO PDR - NO FLOOR

SH, BLACK GRY-S-ARGIL, TRC OF BRN-GUMWAY

LS, WHT STN 9 - CHALKY TO FN-XLN

LS, GRM GRY-SING - FSSL-FLOOD OF DEEP DOC - W) XLN VUG 9 - BARREN - NO FLOOR - NO PDR

LS, WHT GRY-SING/CHALKY TO - V - FN - CRYPTO-XLN - SLT-CHERTY - WHT - OPARUE - NO SHOW

SH, BLACK CARB

SH, FLOOD OF BLACK CARB

LS, GRM TAN BRN - SING/MOTT-FN-XLN - FSSL-COOL TO SLT-DOC - SU-SLFO - STRONG SSSY OADR P - SEAT-FLOOR - CARED. DOLL

LS, WHT LT GRY-CHALKY TO V-P-FN - XLN - NO SHOW

LS, TAN BRN - MOTT - FN - TAN - SLT-DOC - FSSL - DENSE CRYPTO-XLN

SH, BLACK CARB

SH, - VAR - COAR

LS, WHT, LT GRY - FN - XLN - CHALKY

LS, WHT GRY-SING/MOTT - ABOVE - CHALK - TRC OF COOL - MICR - OAL, CRYPTO TO VP - FN - XLN - NO SHOW

LS, (A, A, W) P - FSSL (COOL TO INTER - OAL - P) - NO SHOW

V/S: 46 WT: 9.2 WL: 8.8
 CHL: 2500 LCM: 1A

V/S: 51 WT: 9.1 WL: 9.2
 CHL: 2800 LCM: 1A

DST # 2 4187 - 4210
 30 - 45 - 45 - 90
 IFF: 808 IN 13" - NO BLOWBACK
 FFP: BOB-IN-WASH - 3" BLOWBACK

REC: 235' WIK 9IP; 45' C4.0 (5% G - 95% OIL); 80' W/O CM (TRC OF 9 - 30% OIL - 20% WTR - 50% M); 60' M & W (TRC OF OIL - 80% WTR - 20% MUD)

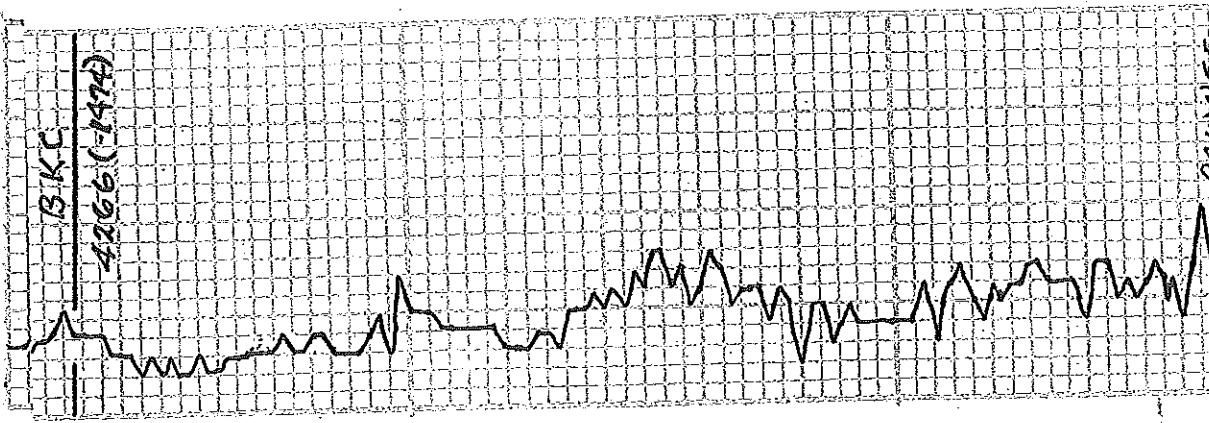
IMP: 2075 FHP: 2027
 IFF: 27-50 FFP: 58-96
 ISIP: 1190 FSIP: 1196
 BHT: 1270 GRAB: 30
 CHL: 48,000 CHL: 2500 (SFS)

50

50

BACK PAGE

B.K.C.
4266(-1474)



DOWN

4300

50

SH, GRY-BRN

SH, BLACK CARB - SLI-VARI-COLOR

LS, GRY-SING - FN-XLD

SH, BLACK, GRY'S, GRN, BRN - AR94

✓

LS, WHT, LT GRY - SING - FN-XLD, ESSE
SUB-CHALKY

SH, BLACK CARB & GRY - AR94

LS, GRN - LT GRY - SING / MOTT - XLD
TO - CRYPTO-XLD

SH, GRY TO SLI - VARI-COLOR

LS, WHT-LT GRY - DENSE CRYPTO-
XLD TO V-SLI-F-ESSE-361
CHERTY

✓

SH, VARI-COLOR

LS, LT GRY TO TAN - SING/MOTT -
CRYPTO-XLD - NO SARD

SH, VARI-COLOR

LS, WHT, LT GRY - SING - CRYPTO-XLD

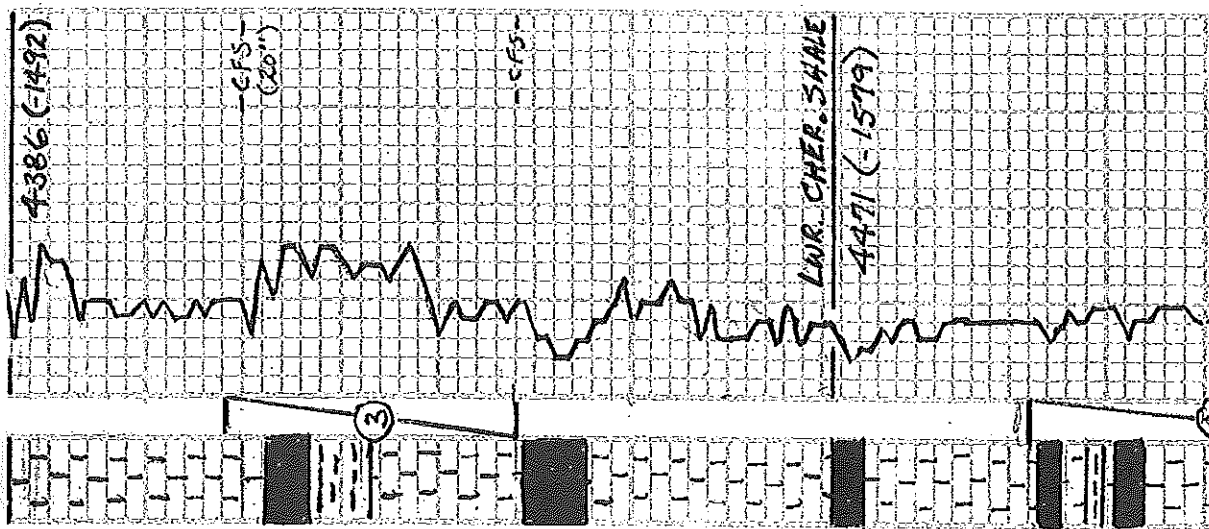
LS, A/D SUB-CHALKY TO FESLD
DEATH

SH, GRY'S - AR94

LS, WHT, GRN, LT GRY - FN-XLD TO
DENSE XLD - NO SARD

SH, BLACK CARB

WORK ON DRAW WORKS - ENGINES
DIED.



4400

4500

LS, DM, AT, GR, SING/MOTT - ABOVE
 PRT. GR, FRESH CRAGUE D.
 FSSL - W. CRYPTO-XLN

LS, (A, A, N) TRC OF P-CRM-FSSL
 CHERN LS.

SH, BLACK CARB

SH, BLECK CARB, GRAY TO DK GRY

LS, SKA, GRY - MOTT - CRYPTO XLN

LS, CRM-TAN GRY-SING/MOTT - P-F INTER
 XLN - SUB-CHEM - SLED - V-F PAINT
 PDR - BRN HTG OLD SPOTTY-FLUR
 TRC OF SHALLOW VUGS IN A FEW
 PLS - COULD BE THE BULL'S HEAD
 SH, BLACK CARB

LS, CRM-TAN, AT GR, SING/MOTT - ABOVE
 FSSL - No SHOW

LS, CRM-TAN - SING/MOTT - SUB-FSSL -
 CRYPTO-XLN TO MICRO-XLN - SLL -
 FSSL - P-502 - No SHOW

LS, (A, A, N) INCR IN CHAR (D) DEPTH

SH, BLACK CARB

LS, DM, AT, GR, SING - SING - DEARSE-MA
 CRYPTO-XLN TO MICRO-XLN - SLL -
 FSSL - P-502 - No SHOW

LS, CRM-TAN - SING/MOTT - P-F INTER TO
 SUB-CHEM - SLL - CHALKY (D) DEPTH
 No SHOW

SH, BLACK CARB

SH, GRAY & GRN - A-BAIL

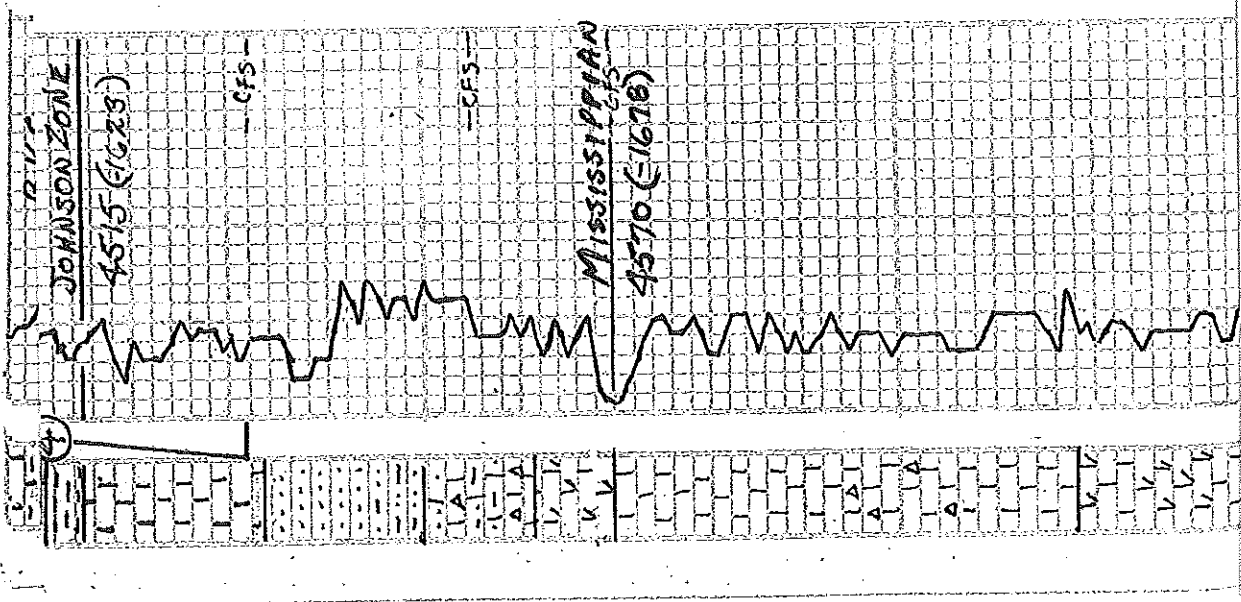
SH, BLACK CARB

LS, DM, AT, GR, SING - P-M-XLN TO V-SU - FSSL

VIS: 51 WT: 9.2 WL: 3.8
 CHL: 2500 LCM: 2

DST # 3 4408.4438
 30-30-30-30
 IF: WK BLOW DIED IN 6" No B.B
 FF: No-BLOW - No-BLOW BACK
 REC: 1' MUD FHP: 2104
 IEP: 2180 FFP: 23-20
 ISIP: 24 FSIP: 20
 CHL: 2500 BHT: 121°

DST # 4 4492.4532
 30-30-30-60
 IF: 1/4" BLOW DIED IN 12" No B.B.
 FF: BOBBIE TO OPEN TOOL - No B.B
 REC: 3' MUD (W) OIL SPTS.
 IHP: 2265 FHP: 2181
 IEP: 21-21 FER: 9A-92



4600

NO. SHOW	ISIP: 53 BHT: 126°	FSIP: 72 CHL: 2800 (SIS)
23. CRM TAN GRV - SING - FA - MIN - F - INTER XLA - CHALKY - FUSID. IN SHALLOW VUG. STRONG OOR - SORST. TO BLSAT OR STAL. IN BRSVAMPALS - BRIGAL TO DULL COLOR, SLL - CHALKY	VIS: 53 WT: 9.2 WL: 6.4 CHL: 2800 LCM: 2#	
24. BLK, GRV, BRN - ARGIL (GRN-SILT)		
25. WHIT. SING - FU - GRN - SORTED TO DULL SORTED - SUB ARG - SUB AND COAL MATTER (R. SAO)		
26. WHIT. MUSTARD CLAUCAITIC - FU - MID GRN - RD TO SOB - ARGILAR, JHAKAY IN PART - TRC OF SS. RJA - NO SHOW		
27. SS CHERT - WHIT TAN TO FRESH DRAQUE CHERT - ROUNDING WHIT. (500) RA SS - CRIBBLE TO A. FRABLE - NO SHOW - SLL CARRYING MUSTARD & GRADE RD TO MED GRN. TITE - NO FRI - SS - SLL - DOLOMITE		
28. WHIT TAN (D) ROUND - WHIT CHALKY 45, TRC OF FRESH AT 9 RY A		
29. WHIT - LT GRV - FUSID TO CHALKY 45, NO SHOW		
30. WHIT - LT GRV - FUSID TO CHALKY TRC OF FUSID TO FRESH CHERT		
31. WHIT GRV - SING / WHIT - CRIBBLE SLL - BOLDING	VIS: 52 WT: 9.3 WL: 7.2 CHL: 3000 LCM: 2#	

<p>RTD 4675</p>	<p>REACHED 2</p> <p>11:20 A.M.</p>	<p>45. GRV-MOTT-1A-XA-SU-FSS1</p> <p>CHARACT-326-2000-No Show</p>	<p>SURVEY = 1/4</p>
<p>4700</p>			