GL04467_15

Schlumberger

INDUCTION ELECTRICAL LOG

COUNTY CHURCHILL
FIELD or LOCATION 14-23N-35E
DIXIE FEDERAL
WELL 45-14
COMPANY THERMAL POWER CO.

COMPANY THERMAL POWER COMPANY

WELL DIXIE FEDERAL 45-14

FIELD DIXIE VALLEY

COUNTY CHURCHILL **STATE** NEVADA

LOCATION: API Serial No.
NORTHEAST¼ OF NORTHEAST¼ OF
SOUTHWEST¼ OF
Sec. 14 Twp. 23N Rge. 35E

Other Services:
CNL-GR

Permanent Datum: GL, Elev.: 3410
Log Measured From KB, 22 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 3432
D.F. ---
G.L. 3410

Date	7-3-79			
Run No.	ONE			
Depth—Driller	8912			
Depth—Logger	8916			
Btm. Log Interval	8910			
Top Log Interval	5400			
Casing—Driller	9⅝" @5398	@	@	@
Casing—Logger	5400			
Bit Size	8¾"			
Type Fluid in Hole	WATER			
Dens. / Visc.	62.4 / 1.00			
pH / Fluid Loss	8.0 / -- ml	ml	ml	ml
Source of Sample	---			
R_m @ Meas. Temp.	--- @--- °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	--- @--- °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	--- @--- °F	@ °F	@ °F	@ °F
Source: R_{mf} / R_{mc}	--- / ---			
R_m @ BHT	--- @ 381°F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2000 7-2-79			
TIME Logger on Bottom	0900			
Max. Rec. Temp.	381°F	°F	°F	°F
Equip. / Location	8128 / SAC			
Recorded By	LINDGREN/BRASFIELD			
Witnessed By	DELEON/MCMURDIE			

Reproduced By
Petroleum Information.
CORPORATION
MIDLAND, TEXAS 79701

REFERENCE K 5601Y

14 COMPLETION RECORD

MADE FROM BEST COPY AVAILABLE

SPUD DATE

COMP DATE

DST RECORD

API NO.

CASING RECORD

PERFORATING RECORD

ACID. FRAC SHOT

I P

GOR GR

T P C P

REMARKS:

REPRODUCTION FOR RESALE PROHIBITED

Run No.	ONE			
Service Order No.	64855			
Fluid Level	FULL			
EQUIPMENT DATA				
Panel	BB-384			
Nom. Panel	---			
TTR	---			
DPI	---			
Cartridge	LB-14			
Sonde	TA-15			
Cent. Device	---			
Stand Off - Inches	---			
G. R. Panel	---			
G. R. Cartridge	---			
CALIBRATION DATA				
INDUCTION S.B.R.	1.0			
INDUCTION SONDE ERROR When measured At surface, enter "surface" Down hole, enter depth.	SURFACE			
INDUCTION Corrected For Hole Size	---			
INDUCTION Corrected For Rm	---			
Speed - F.P.M.	---			
GR BKG. CPS	---			
GR Source CPS	---			
GR Tc Sec	---			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

REMARKS:

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause F of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL

10

− |←→| + MILLIVOLTS

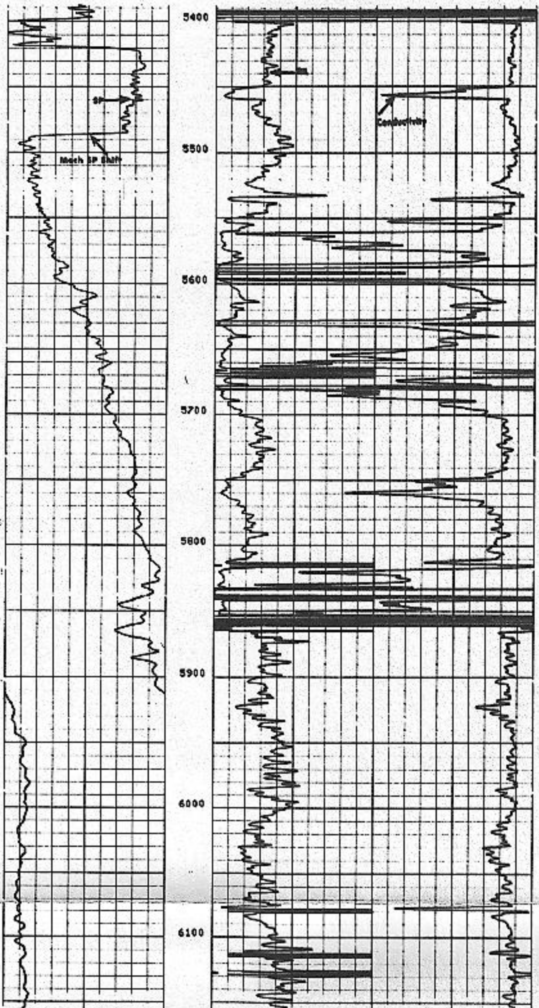
DEPTH

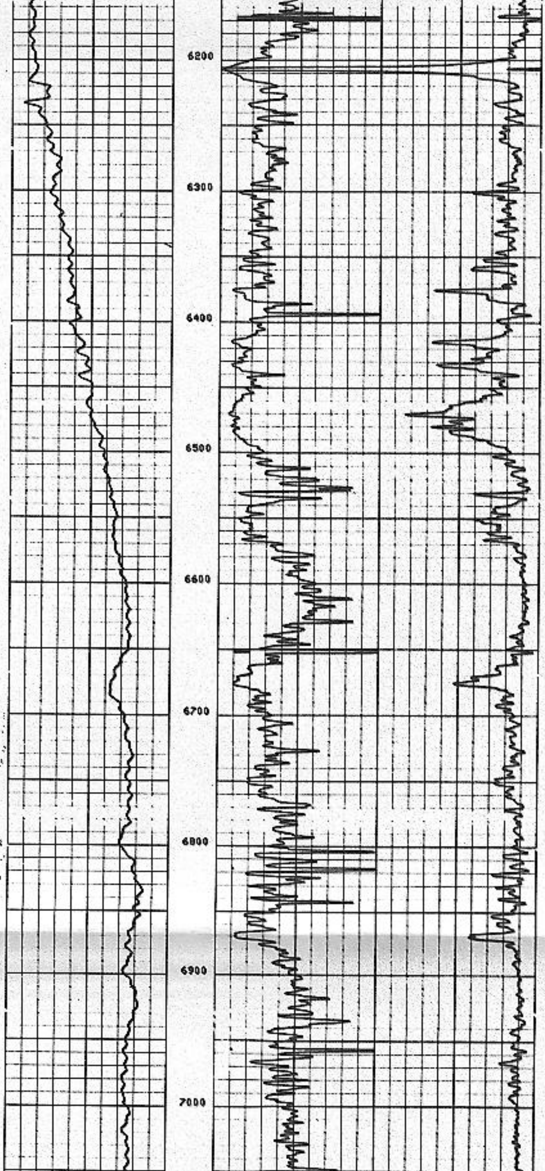
6FF40 INDUCTION **CONDUCTIVITY** MILLIMHOS-M = $\frac{1000}{\text{OHMS M}^2\text{/M}}$

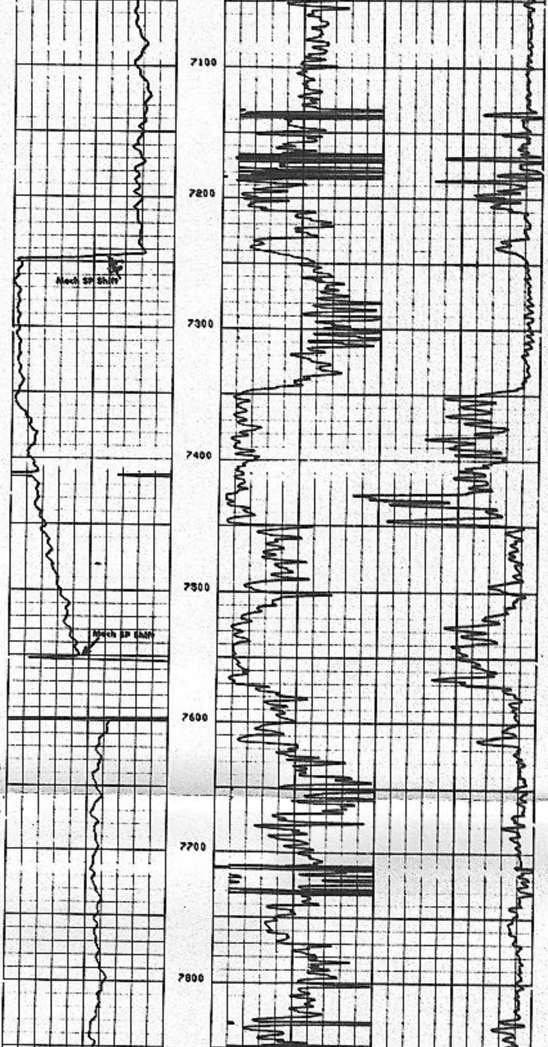
200 0

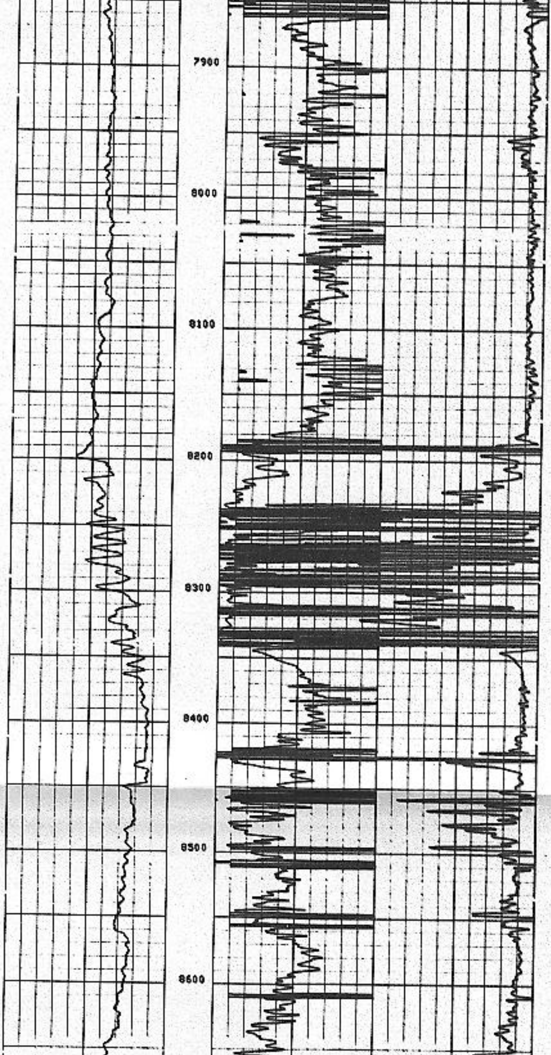
6FF40 INDUCTION

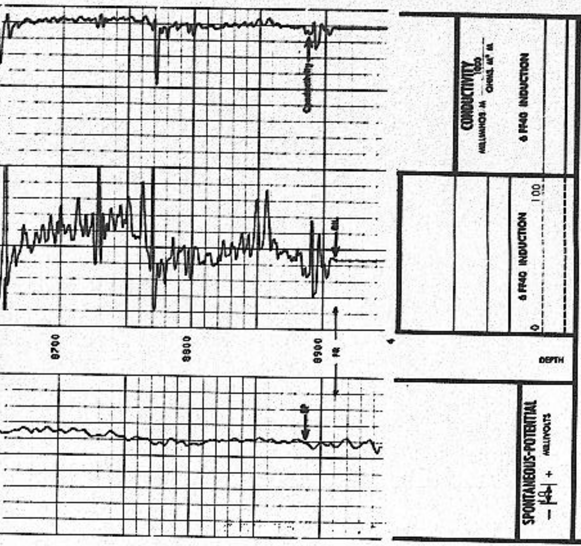
0 100











COMPANY THERMAL POWER COMPANY

WELL DIXIE FEDERAL 45-14

FIELD DIXIE VALLEY

COUNTY CHURCHILL STATE NEVADA

SCHL. FR. 8910
SCHL. TD. 8916
DRLR. TD. 8912
Elev. KB 3432
DF --
GL 3410

Schlumberger **INDUCTION ELECTRICAL LOG**

COUNTY CHURCHILL
FIELD or LOCATION 14-23N-35E
WELL DIXIE FEDERAL 45-14
COMPANY THERMAL POWER CO.

COMPANY THERMAL POWER COMPANY

WELL DIXIE FEDERAL 45-14

FIELD DIXIE VALLEY

COUNTY CHURCHILL STATE NEVADA

LOCATION: API Serial No.
NORTHEAST¼ OF NORTHEAST¼ OF
SOUTHWEST¼ OF
Sec. 14 Twp. 23N Rge. 35E

Other Services:
CNL-GR

Permanent Datum: GL ; Elev.: 3410
Log Measured From KB , 22 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 3432
D.F. --
G.L. 3410

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Dens. | Visc.	62.4 | 1.00	|	|	|
pH | Fluid Loss	8.0 | -- ml	| ml	| ml	| ml
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R_m @ Meas. Temp.	--- @--- °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	--- @--- °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	--- @--- °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	--- | ---	|	|	|
R_m @ BHT	--- @381 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2000 7-2-79			
TIME Logger on Bottom	0900			
Max. Rec. Temp.	381 °F	°F	°F	°F
Equip. | Location	B128 | SAC	|	|	|
Recorded By	LINDGREN/BRASFIELD			
Witnessed By	DELEON/MCMURDIE			

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

Run No.	ONE			
Service Order No.	64855			
Fluid Level	FULL			

EQUIPMENT DATA

Panel	88-384			
Mem. Panel	---			
TTR	---			
DPI	---			
Cartridge	LB-14			
Sonde	TA-15			
Cent. Device	---			
Stand Off - Inches	---			
G. R. Panel	---			
G. R. Cartridge	---			

CALIBRATION DATA

INDUCTION	S.B.R.		1.0			
	SONDE ERROR	When measured: At surface, enter "surface". Down hole, enter depth	SURFACE			
	Corrected for	Hole Size	---			
		Rm	---			
Speed - F.P.M.			---			
GR	BKG. CPS		---			
	Source CPS		---			
	Tc Sec		---			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

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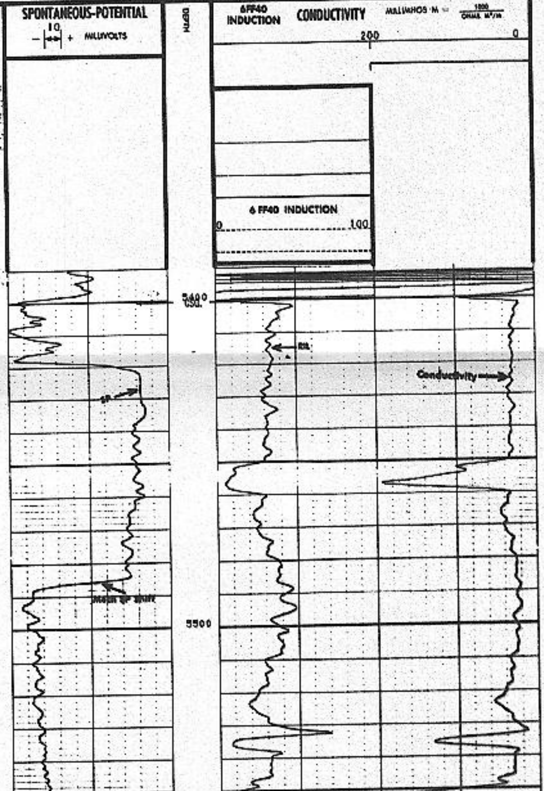
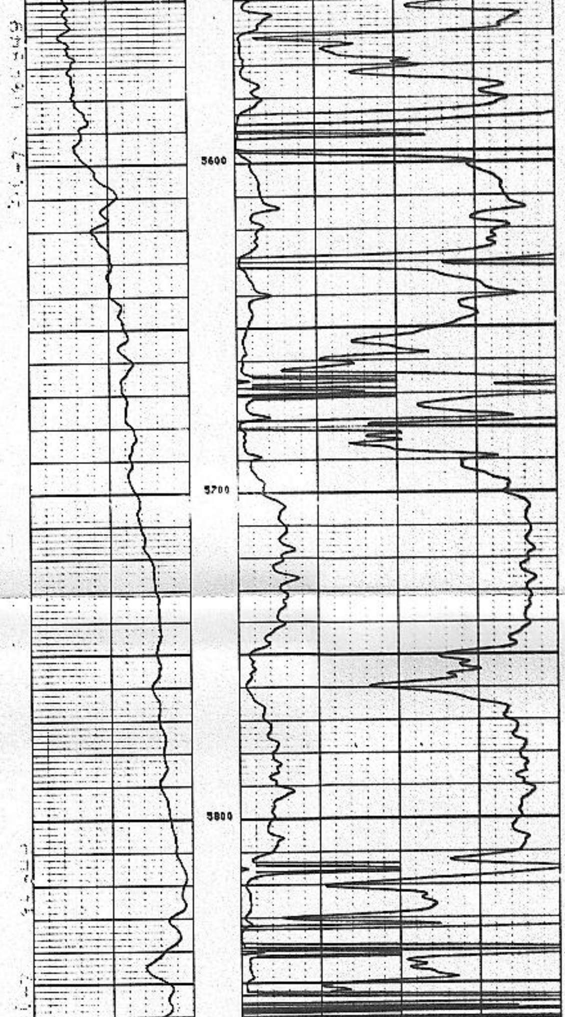
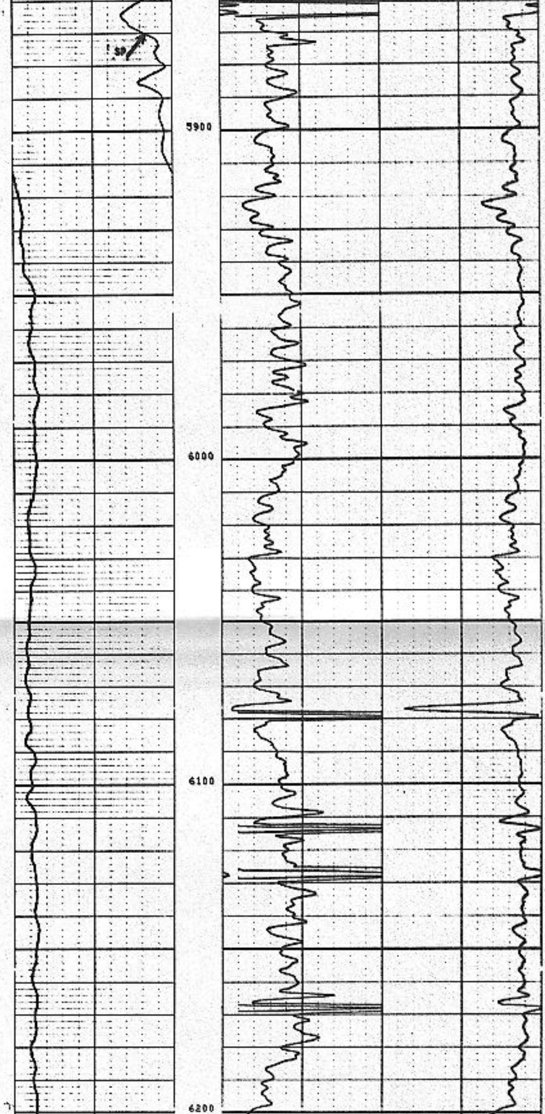
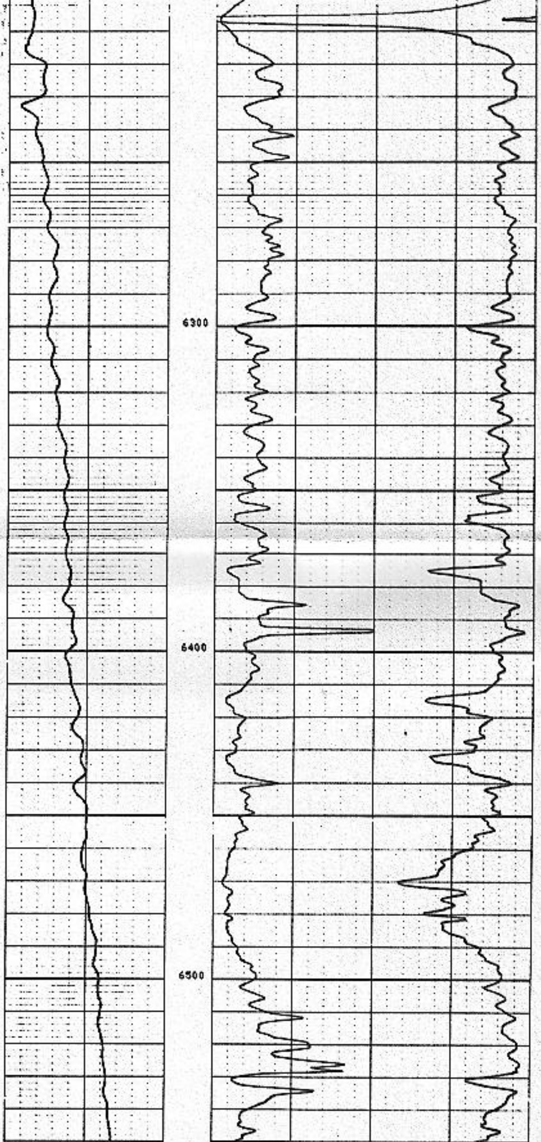
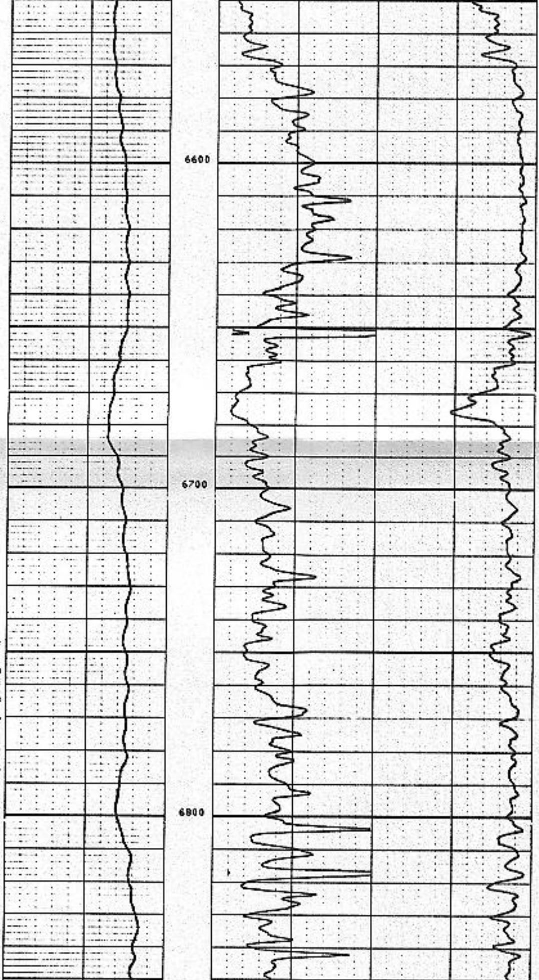
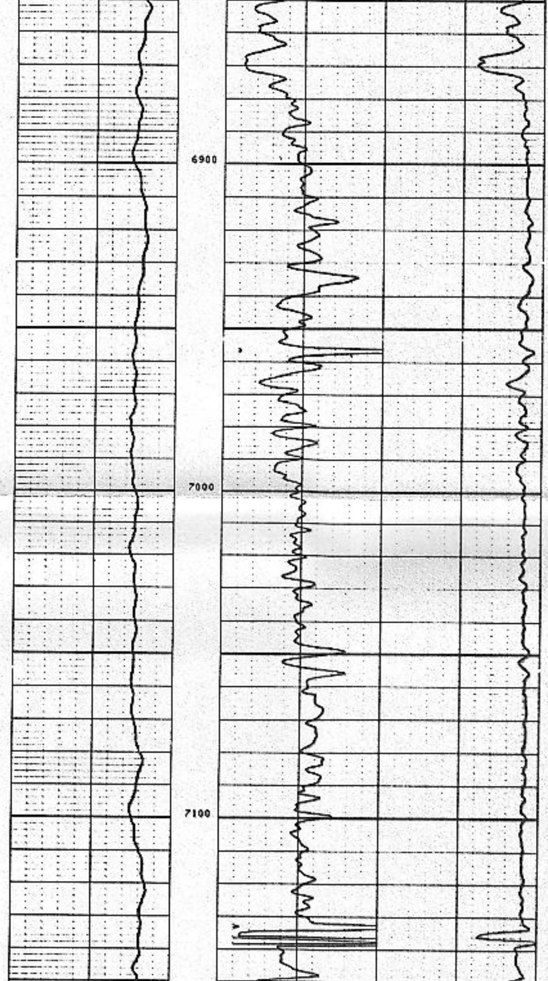


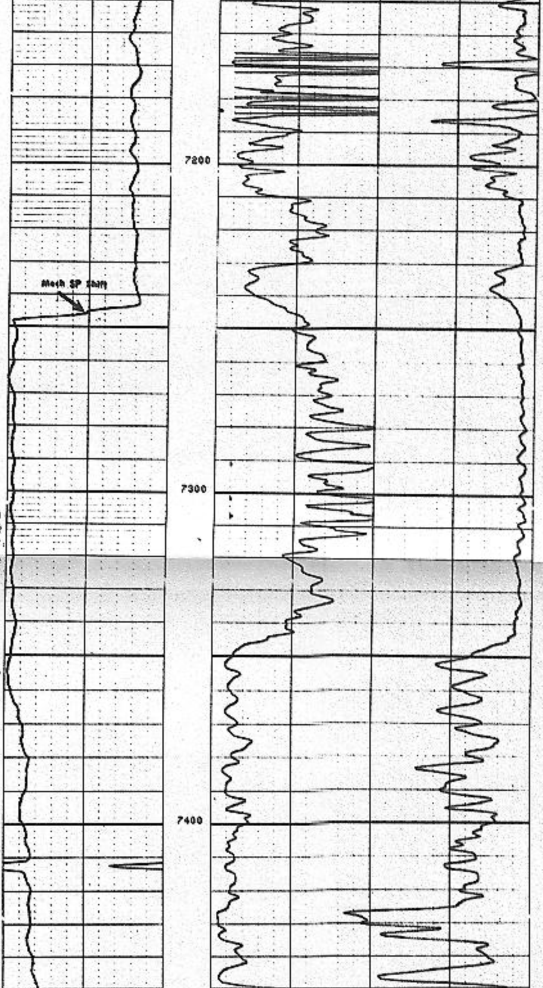


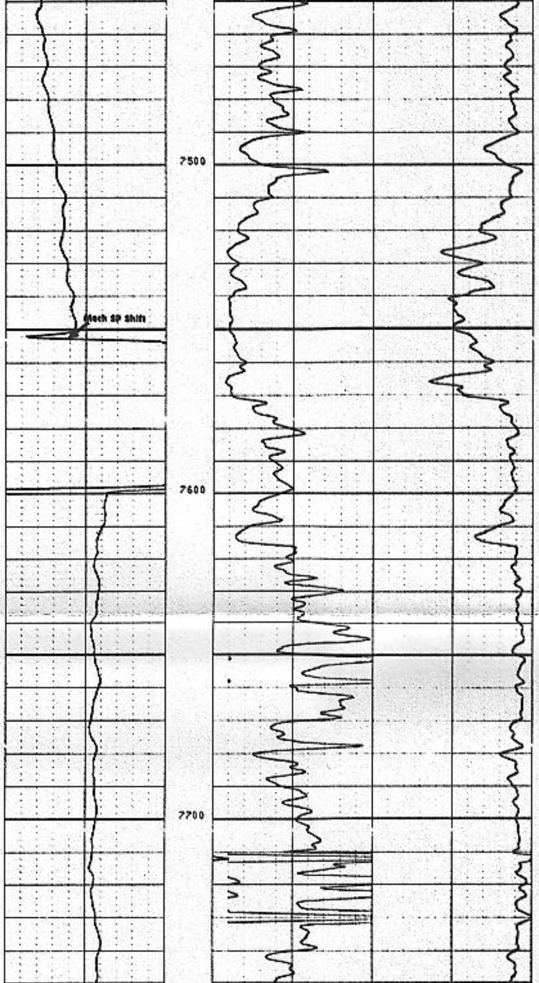


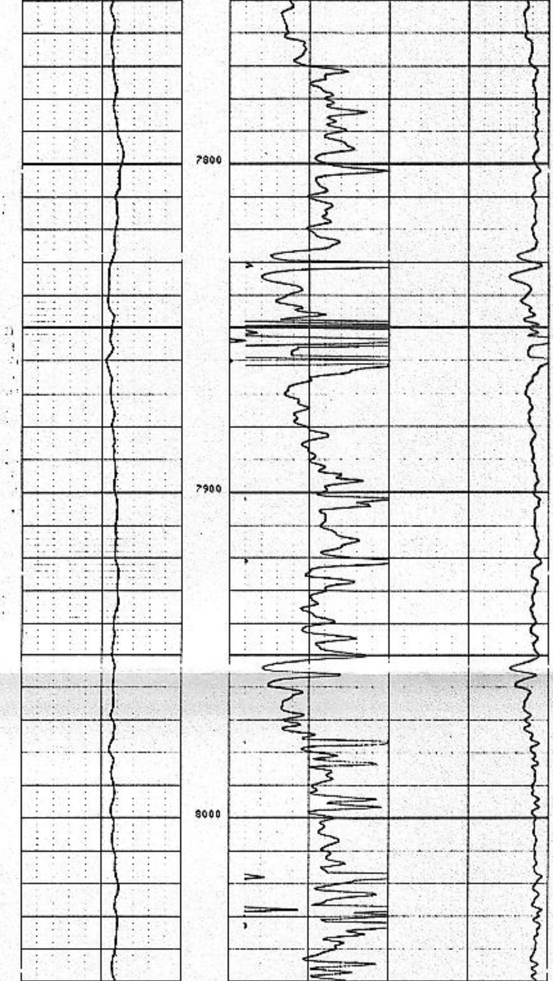


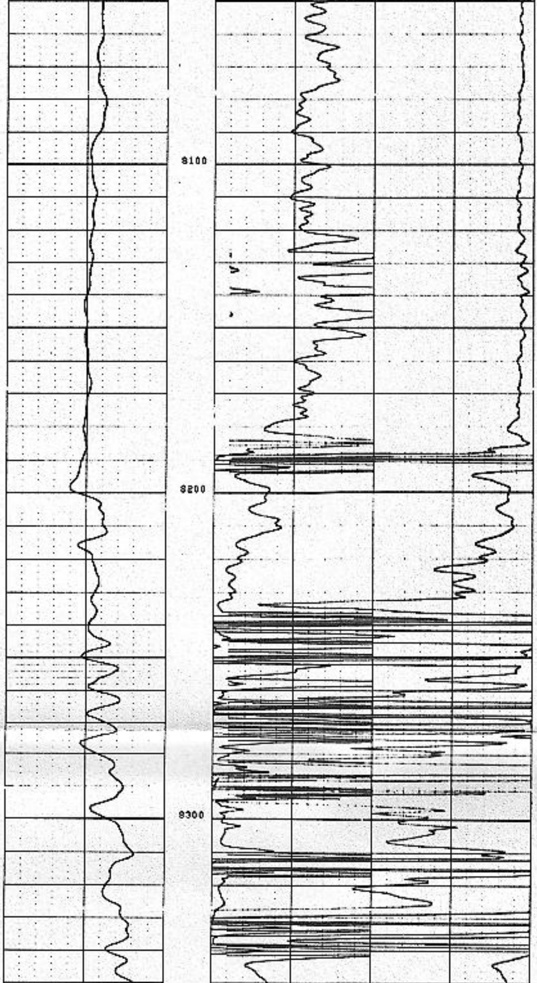


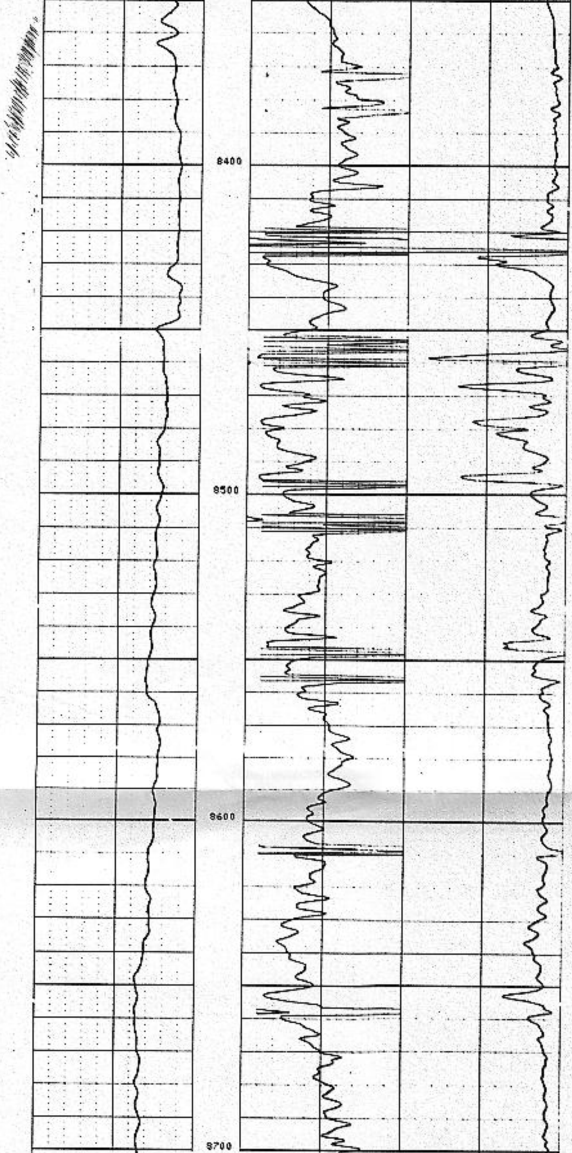


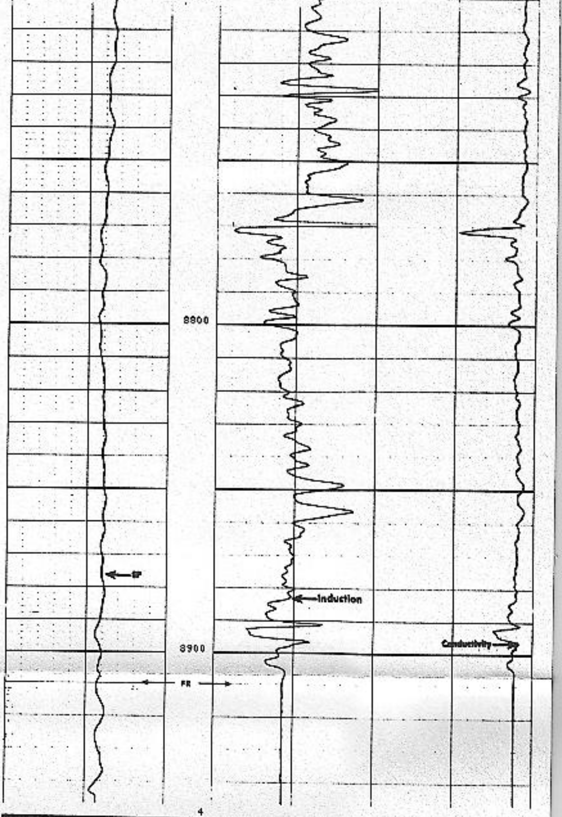




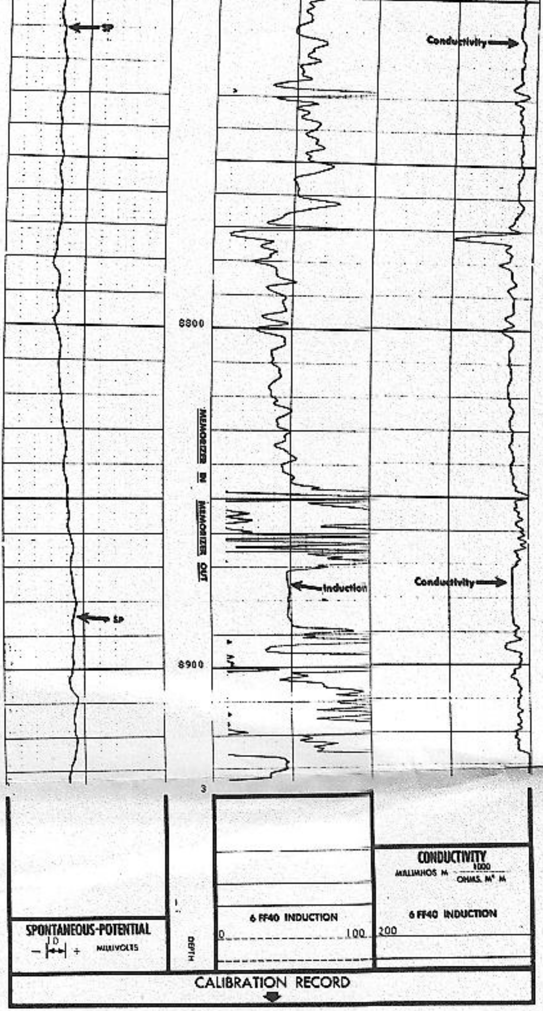






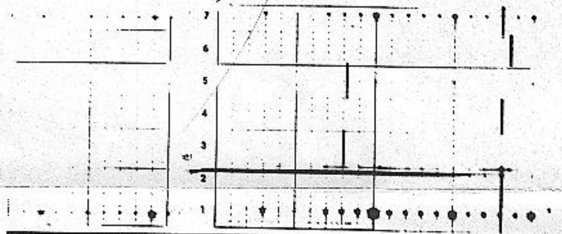


REPEAT SECTION



```
BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED:     79/07/03
PROGRAM FILE:  IS      <VERSION     12.4     78/12/ 8>
```

```
IRTM                 ELECTRONICS CALIBRATION SUMMARY

              MEASURED                        CALIBRATED
            ZERO    PLUS                    ZERO      PLUS          UNITS
   ILD      0.1   1469.                     0.0     1499.           MM/M

ILD  SONDE ERROR CORRECTION :          6.0   MM/M

                                 2
                                 2


                  AFTER SURVEY TOOL CHECK SUMMARY

   PERFORMED:       79/07/03
   PROGRAM FILE:  IS      (VERSION     12.4    78/12/ 8)

IRTM                          TOOL  CHECK

                  ZERO                             PLUS
            BEFORE       AFTER              BEFORE      AFTER     UNITS
   ILD        0.0         -0.2              1499.       1422.     MM/M

ILD  SONDE ERROR CORRECTION :          6.0   MM/M

                                 6
                                 6
```



INDUCTION-ELECTRICAL SURVEY CALIBRATION CODING

RFD

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. TEST LOOP - 500 mmho
4. MECHANICAL ZERO
5. INTERNAL CALIBRATION - 1000 mmho
6. SONDE ERROR
7. DIODE ERROR

DOWN HOLE CALIBRATION

SURFACE CALIBRATION

INT CAL

SE

DE

CALIBRATION RECORD

COMPANY THERMAL POWER COMPANY

WELL DIXIE FEDERAL 45-14

FIELD DIXIE VALLEY

COUNTY CHURCHILL STATE NEVADA

SCHL. FR 8910

SCHL. TD 8916

DRLR TD 8912

Elev:

KB 3432

DF --

GL 3410