GL04309_3

FINAL PRINT
Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY
FIELD HEBER
LOCATION
WELL HGU # 153
COMPANY CHEVRON GEOTHERMAL

COMPANY CHEVRON GEOTHERMAL

WELL HGU # 153

FIELD HEBER

COUNTY IMPERIAL STATE CALIFORNIA

LOCATION NOT AVAILABLE

API SERIAL NO. SEC. TWP. RANGE

Other Services:

Permanent Datum: GL ; Elev.:
Log Measured From KB 28.6 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B.
D.F.
G.L.

Date	11-27-84			
Run No.	ONE			
Depth—Driller	6710			
Depth—Logger	6686			
Btm. Log Interval	6684			
Top Log Interval	821			
Casing—Driller	16" @ 822	@	@	@
Casing—Logger	821			
Bit Size	14 3/4			
Type Fluid in Hole	MIL TEMP			
Dens. / Visc.	9.7 / 32			
pH / Fluid Loss	9.4 / 11.2 ml	ml	ml	ml
Source of Sample	MUD PIT			
Rm @ Meas. Temp.	3.350 @ 78 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.710 @ 49 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	4.340 @ 70 °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	PRESS / PRESS			
Rm @ BHT	1.330 @ 207 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2100 11-26			
TIME Logger on Bottom	0140			
Max. Rec. Temp.	207 °F	°F	°F	°F
Equip. / Location	8240 / 4404			
Recorded By	MACGLASON			
Witnessed By	REBERTS			

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

RUN NO.	ONE			
Service Order No.	427427			
Fluid Level	FULL			
Salinity, PPM CL.	--			
Speed - F.P.M.				
EQUIPMENT DATA				
Dens. Panel	--			
Dens. Cart.	PGC 577			
Dens. Skid.	PDH 106			
Dens. Sonde	PGS 334			
Dens. Source	GSRJ 6456			
Dens. Calibrator	--			
Neut. Panel	--			
Neut. Cart.	--			
Neut. Source	--			
Neut. Calibrator	--			
GR Cart.	SGC SC 3234			
Memorizer Panel	--			
Tape Recorder (TTR)	--			
Depth Encoder (DRE)	--			
Pressure Wheel (CPW)	--			
Centralizers: Enter Spring, Standoffs, In-line, or None — Type	--			
No.	--			
S. O. — Inches	--			

Type Log	Depth		

REMARKS:

CALIBRATION DATA

GR	BKG. CPS	--			
	Source CPS	--			
	Sens. - Cal	--			
	T. C. - Cal	--			
CNL	Short Spacing - Before Log	--			
	Long Spacing - Before Log	--			
	Short Spacing - After Log	--			
	Long Spacing - After Log	--			
FDC	P¹ — Before Log	--			
	P² — Before Log	--			
	P¹ — After Log	--			
	P² — After Log	--			

LOGGING DATA

DEPTH		--	CNP		FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	T. C.	Zero. Div. Left	Scale Per 100 Div.

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 willful 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 our General Terms and Conditions as set out in our current Price Schedule.

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•_____BS__(IN__)_____
/10.000          20.000
      CALI(IN  )
 10.000          20.000
______GR__(GAPI)_____              _____DRHO(G/C3)_________     ____TENS(LB  )
 30.000          130.00            -.2500             .25000   10000.              0.0
       SP   (MV  )                              DPHI
 -110.0          -10.00            .60000                                          0.0
 -110.0     SP   -10.00  SCALE
 -100.0     1291    0.0 CHANGES
 -100.0     SP      0.0  SCALE
 -80.00     3888 20.000 CHANGES

            FILE  102       27-NOV-84 06:49
            DATA ACQUIRED   27-NOV-84 04:04
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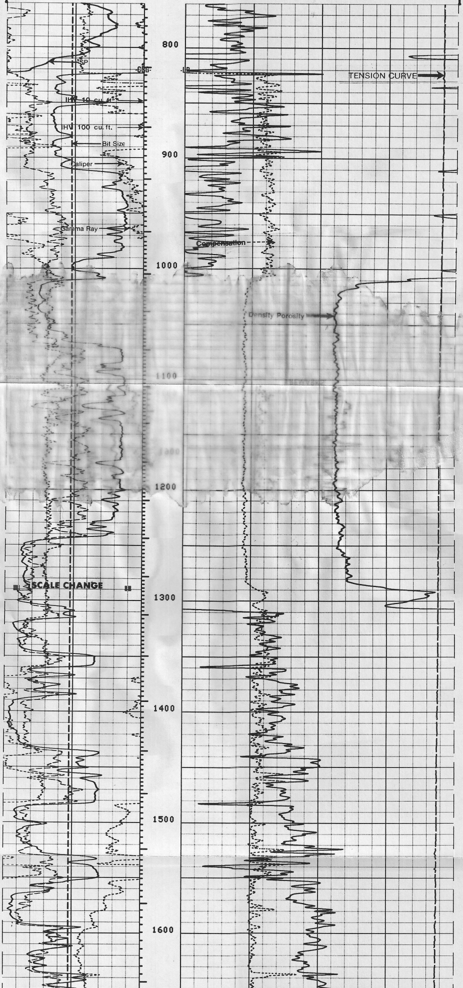
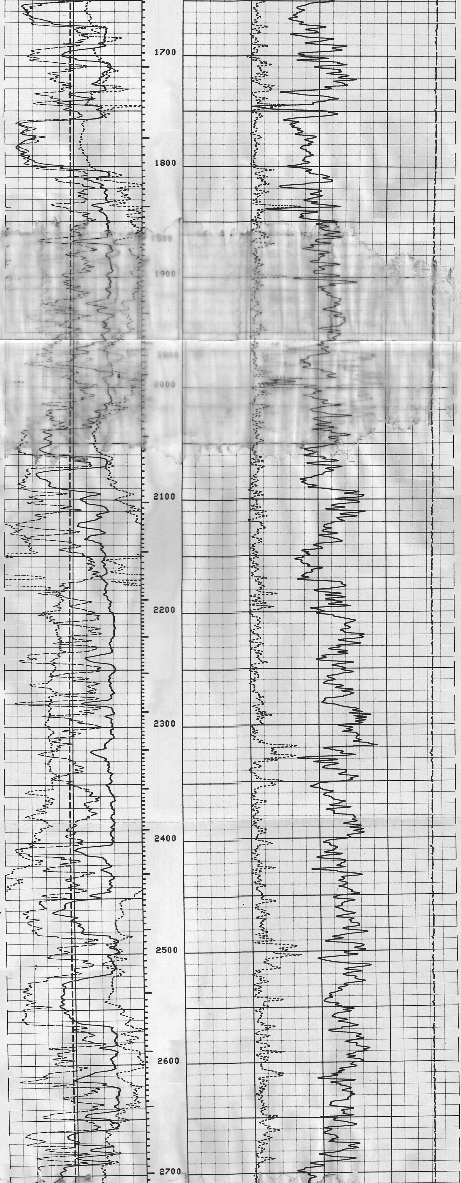
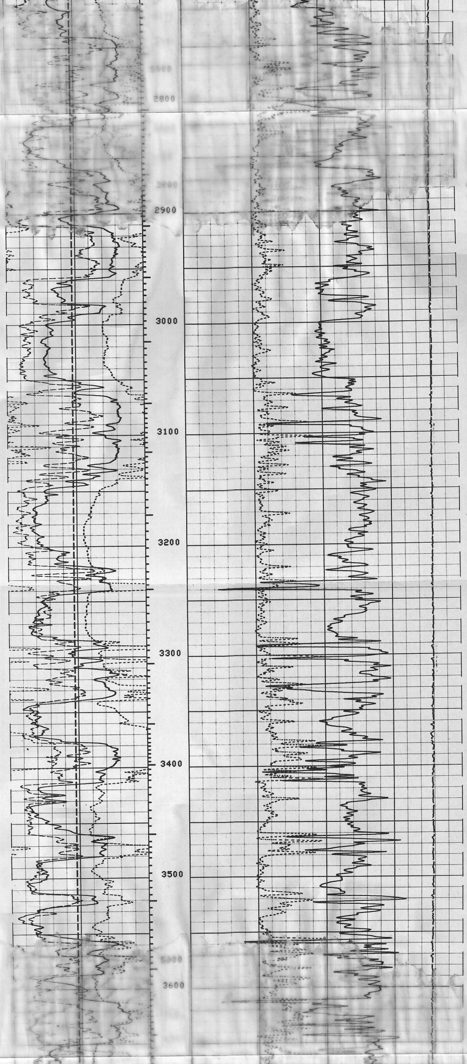
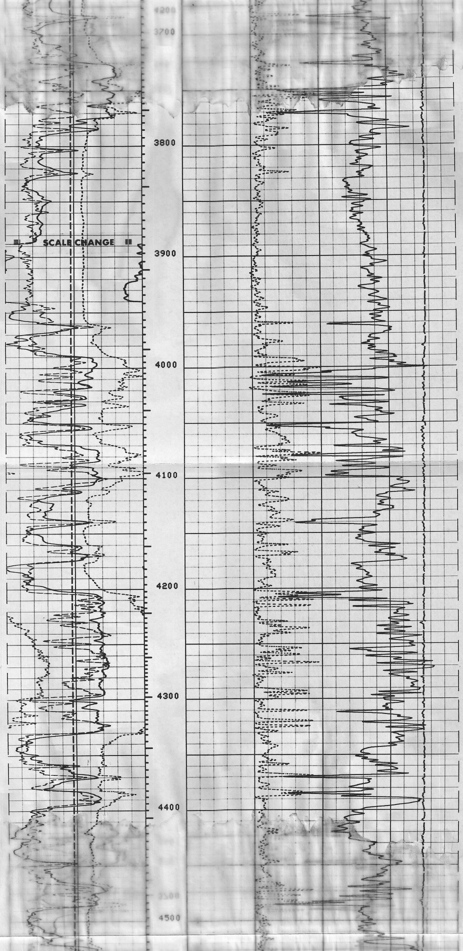
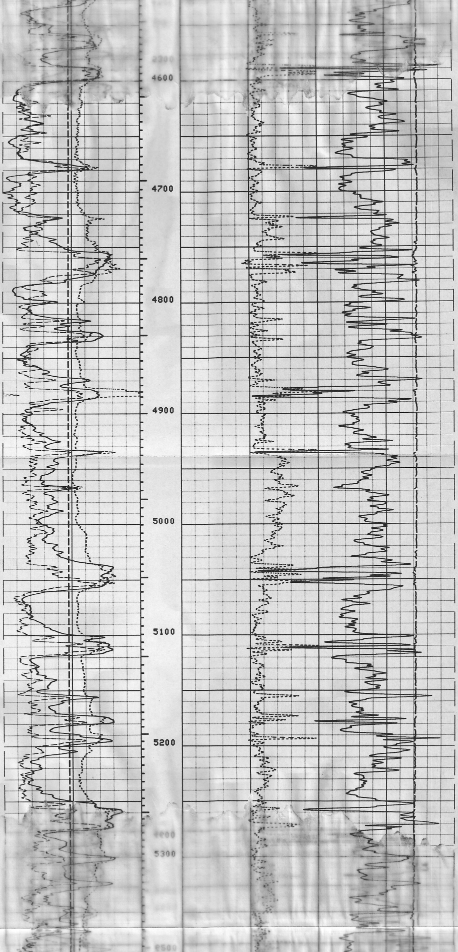
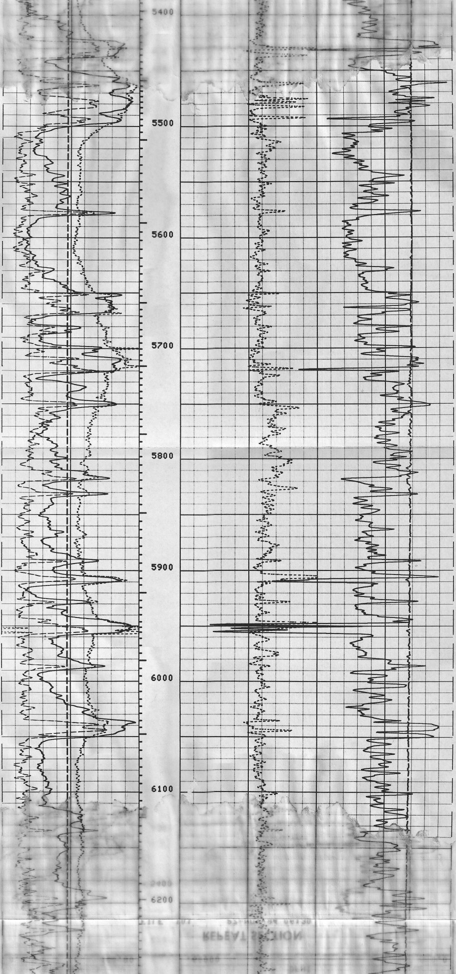


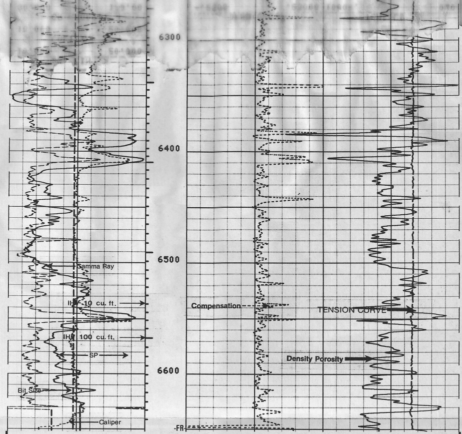












FILE 102 27-NOV-84 06:33
DATA ACQUIRED 27-NOV-84 00:43

BS (IN)
10.000 20.000
CALI(IN)
10.000 20.000
GR (GAPI)
30.000 130.00
SP (MV)
-80.00 20.000

DRHO(G/C3)
-.2500 .25000
DPHI
.60000 0.0

TENS(LB)
10000. 0.0

SENSOR MEASURE POINT TO TOOL ZERO

FFDC	2.7	FEET	GR	19.3	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
SFL	26.6	FEET	ILD	29.6	FEET
SP	22.4	FEET	ILM	26.0	FEET
TENS	-.2	FEET	SPAR	22.7	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MDEN	2.65000	G/C3	FD	1.00000	G/C3
BHF	WATE		FDCC	ALLO	
SBR	1.00000	OHMM	DSEC	4.50000	MMHO
BHS	OPEN		MSEC	4.50000	MMHO
DO	0.0	F	BS	14.7500	IN
PP	RECO				

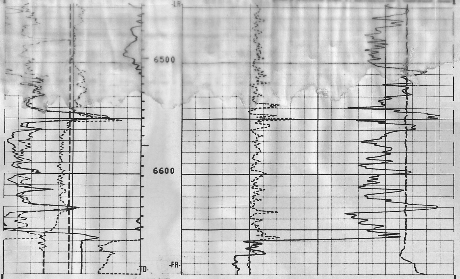
BS (IN)
10.000 20.000
CALI(IN)
10.000 20.000
GR (GAPI)
30.000 130.00
SP (MV)
0.0 100.00

DRHO(G/C3)
-.2500 .25000
DPHI
.60000 0.0

TENS(LB)
10000. 0.0

REPEAT SECTION

FILE 101 27-NOV-84 06:30
DATA ACQUIRED 27-NOV-84 00:39



FILE 101 27-NOV-84 06:30
DATA ACQUIRED 27-NOV-84 00:30

BS (IN)		
10.000		20.000
CALI(IN)		
10.000		20.000
GR (GAPI)		
30.000		130.00
SP (MV)		
0.0		100.00

DRHO(G/C3)		TENS(LB)		
-.2500	.25000	10000.		0.0
DPHI				
.60000				0.0

SENSOR MEASURE POINT TO TOOL ZERO

FFDC	2.7	FEET	GR	19.3	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
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SP	22.4	FEET	ILM	26.0	FEET
TENS	-.2	FEET	SPAR	22.7	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
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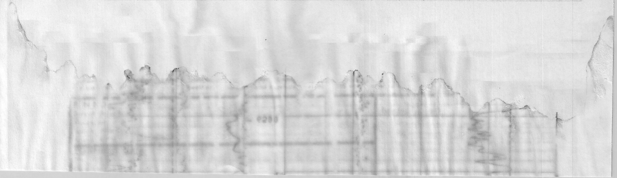
BHF	WATE		FDCC	ALLO	
SBR	1.00000	OHMM	DSEC	4.50000	MMHO
BHS	OPEN		MSEC	4.50000	MMHO
DO	0.0	F	BS	14.7500	IN
PP	RECO				

COMPANY CHEVRON GEOTHERMAL
WELL HGU # 153
FIELD HEBER
COUNTY IMPERIAL STATE CALIFORNIA

SCHL. FR 6684
SCHL. TD 6686
DRLR TD 6710
Elev:
KB
DF
GL

SWS—2062-C