GL04306_8

[redacted]

COU	
FIELD	
LOCA	
WELL	HGU NO. 16
COMPANY	CHEVRON GEOTHERMAL

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY CHEVRON GEOTHERMAL

WELL HGU NO. 16

FIELD HEBER

COUNTY IMPERIAL STATE CALIFORNIA

LOCATION
LAMBERT COORDINATES:
N: 199906.56
E: 2225265.08

API SERIAL NO.	SEC.	TWP.	RANGE

Other Services:
BHC
DIPMETER
TEMP

Permanent Datum: G.L. (MAT) ; Elev.: -5
Log Measured From K.B. 24.1 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 19.1
D.F. 17.6
G.L. -5

Date	11-23-86	12-10-86		
Run No.	ONE	TWO		
Depth—Driller	5413	9363		
Depth—Logger	5413	9363		
Btm. Log Interval	5410	9362		
Top Log Interval	1655	5411		
Casing—Driller	18.625@1655	13.375@5415	@	@
Casing—Logger	1655	5411		
Bit Size	17.5	12.25		
Type Fluid in Hole	GEL/DRISPAC	GEL/WATER		
Dens. | Visc.	9.40 | 44.0	9.50 | 35.0		
pH | Fluid Loss	10.0 | 13.4 ml	9.5 | 12.8 ml	ml	ml
Source of Sample	FLOWLINE	FLOWLINE		
Rm @ Meas. Temp.	4.280 @ 70 °F	2.150 @ 118 °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.832 @ 52 °F	3.160 @ 61 °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.911 @ 52 °F	3.960 @ 61 °F	@ °F	@ °F
Source: Rmf | Rmc	FILTER | PRESS	MEAS | MEAS		
Rm @ BHT	1.562 @ 204 °F	.924 @ 284 °F	@ °F	@ °F
TIME Circulation Stopped	0230	2100 12-9		
TIME Logger on Bottom	0721	1237 12-10		
Max. Rec. Temp.	204 °F	284 °F	°F	°F
Equip. | Location	8297 | L.B.	8297 | LONG BEACH		
Recorded By	MACGLASHAN	MACGLASHAN		
Witnessed By	SIMMONS	SIMMONS		

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

RUN NO.	ONE	TWO		
Service Order No.	488824	488829		
Fluid Level				
Salinity, PPM CL.				
Speed - F.P.M.				

Type Log	Depth			

REMARKS: Run 1

ECCENTRALIZING BOWSPRING USED
400 PPM CHLORIDES
T1=T2=204 DEGF

EQUIPMENT NUMBERS-

DRS-5702 NSC-871 PGD-3851 PDH-3836
CNC-HA-358 SGC-SA-630 TCC-B-59 AMM-770
SP-AA-474 TCM-1032

REMARKS: Run 2

ECCENTRALIZING BOWSPRING USED
400 PPM CHLORIDES
T1=T2=T3=284

EQUIPMENT NUMBERS-

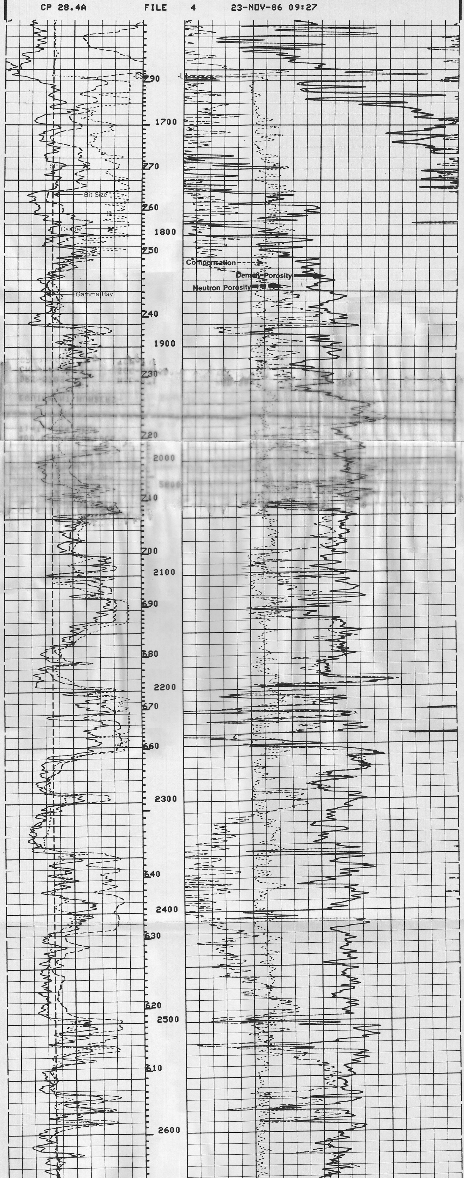
SP-AA-474 PGC-JA-689 CNC-A-2459 PGS-670
PDH-179 NLM-BC-1256 GSR-J-6030

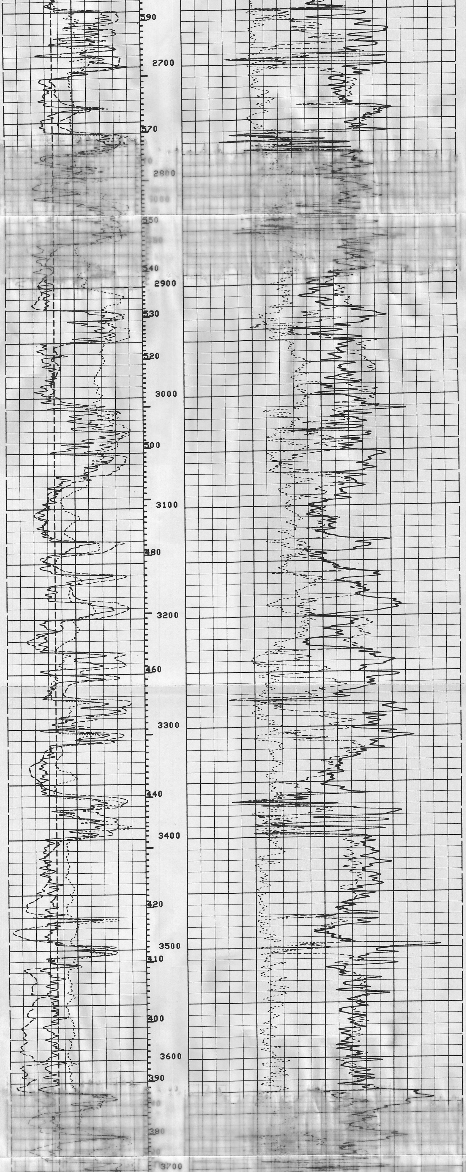
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, 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.

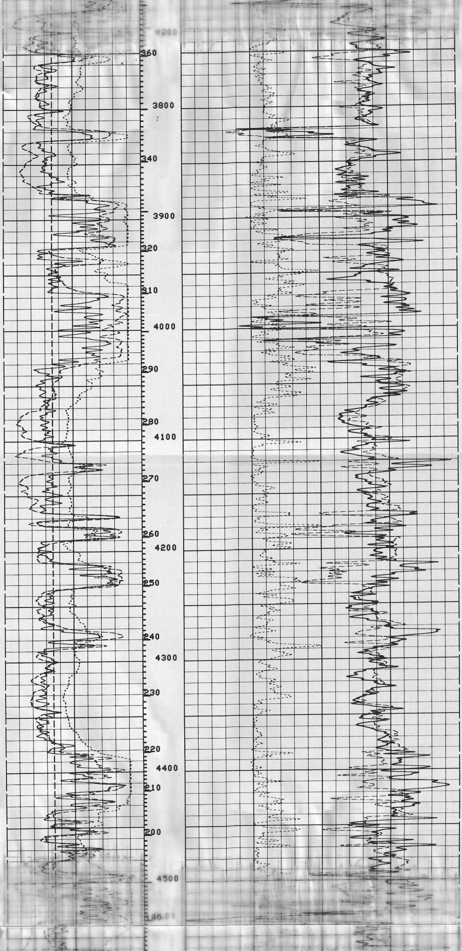
EVENT MARK SUMMARY:

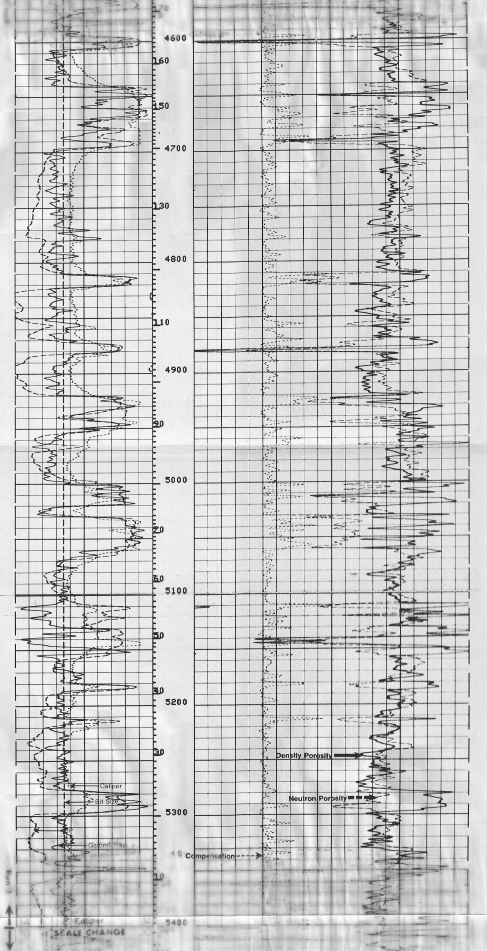
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
IHV	10.0000 F3	LEFT EDGE

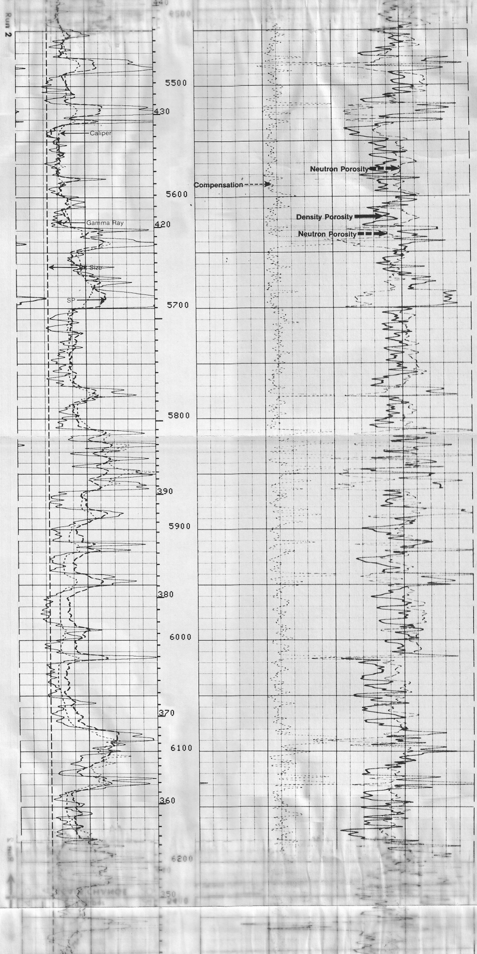
BS (IN)		Run 1	DRHO(G/C3)	
14.000	24.000		-.2500	.25000
CALI(IN)			RHOB(G/C3)	
14.000	24.000		1.6500	2.6500
GR (GAPI)			DPHI	
20.000	120.00		.60000	0.0
SP (MV)			NPHI	
-110.0	-10.00		.60000	0.0

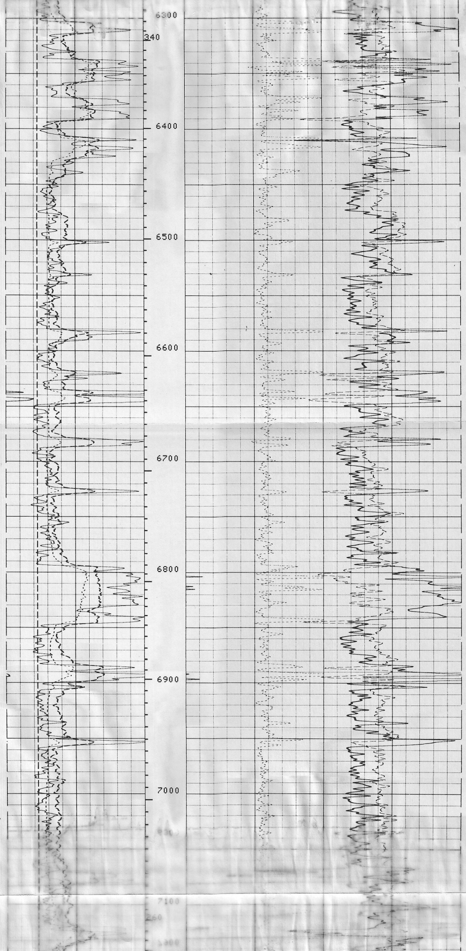


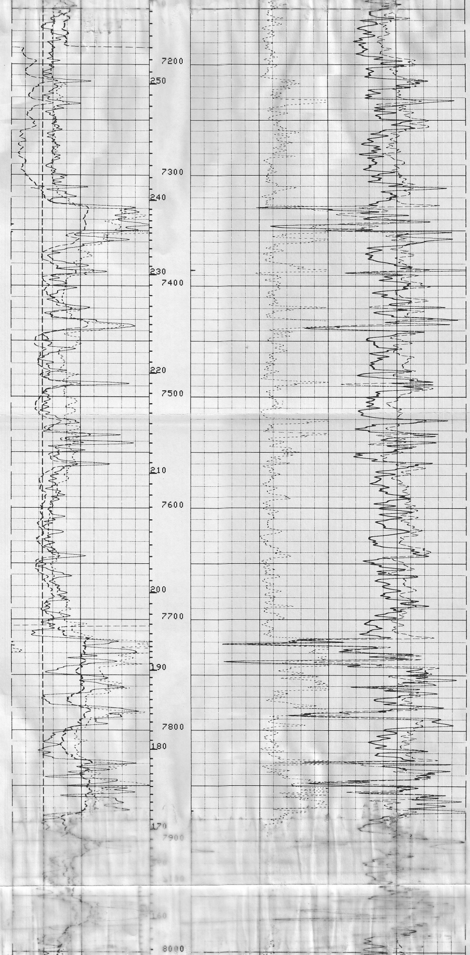


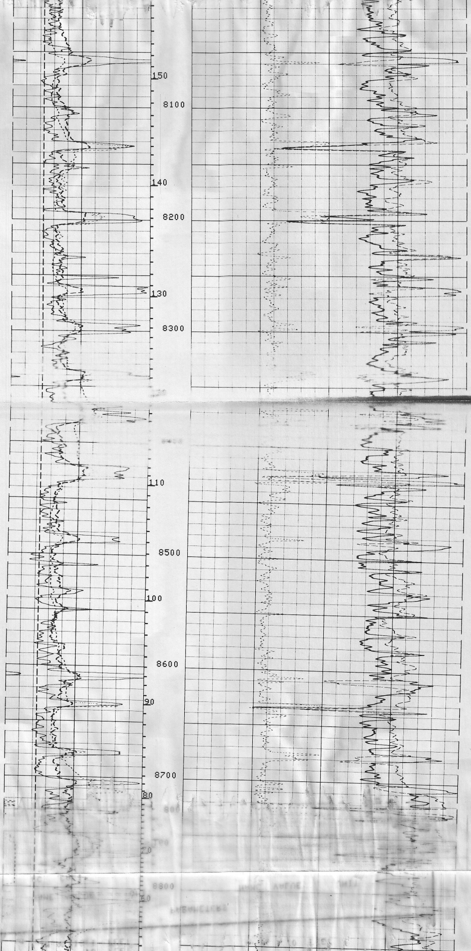


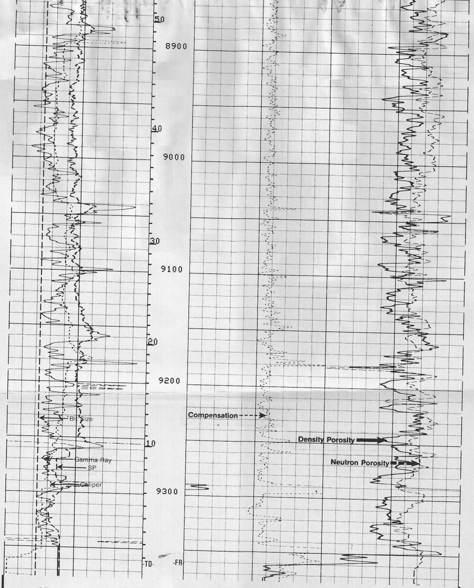












CP 28.4

FILE 101 10-DEC-86 15:26
DATA ACQUIRED 10-DEC-86 12:37

BS (IN) 10.000 – 20.000	Run 2	DRHO(G/C3) -.2500 – .25000	
CALI(IN) 10.000 – 20.000		RHOB(G/C3) 1.6500 – 2.6500	
GR (GAPI) 20.000 – 120.00		DPHI .60000 – 0.0	
SP (MV) -80.00 – 20.000		NPHI .60000 – 0.0	

SENSOR MEASURE POINT TO TOOL ZERO

FCNL	18.1	FEET	GR	26.6	FEET
FFDC	2.7	FEET	NCNL	18.1	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
ILM	33.2	FEET	ILD	36.9	FEET
SP	29.5	FEET	SFL	33.9	FEET
TENS	-.3	FEET	SPAR	30.0	FEET
NRAT	18.1	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
HC	CALI				
FD	1.00000	G/C3	PSNR	2.18400	
FDCC	ALLD		MATR	SAND	
WMUD	8.00000	LB/G	MDEN	2.65000	G/C3
SBR	1.00000	OHMM	BHF	WATE	
FNUM	.810000		DSEC	4.50000	MMHO
BS	12.2500	IN	MSEC	4.50000	MMHO
PP	NORM		BHS	OPEN	

COMPANY CHEVRON GEOTHERMAL
WELL HGU NO. 16
FIELD HEBER
COUNTY IMPERIAL STATE CALIFORNIA

SCHL. FR 9362
SCHL. TD 9363
DRLR. TD 9363

Elev: KB 19.1
DF 17.6
GL -5