GL04392_17

Schlumberger

CEMENT BOND LOG
VARIABLE DENSITY

COUN[redacted]
Field
LOCA
WELL
COMPANY CHEVRON U.S.A., INC

COMPANY CHEVRON U.S.A., INC.
WELL BEOWAWE 85-18
FIELD BEOWAWE GEYSERS
COUNTY LANDER STATE NEVADA
LOCATION 2960' SOUTH & 80' WEST OF THE NORTHEAST 1/4 OF:
API Serial No.
Sec. 18 Twp. 31N Rge. 48E
Other Services: HDT HRT FIL DI-SFL BHC FDC FDC/CNL/GR

Permanent Datum: GL, Elev. 4920
Log Measured From KB, 15 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 4935
D.F. --
G.L. 4920

Date	5-10-80
Run No.	ONE
Depth – Driller	4543
Depth – Logger	4543
Btm. Log Interval	2990
Top Log Interval	750
Open Hole Size	12 1/4
Type Drill Fluid	GEL
Fluid Level	FULL
Max. Rec. Temp.	250 °F
Est. Cement Top	--
Equip. | Location	7763 | SAC
Recorded By	ANDERSEN
Witnessed By	IOVENETTI

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String	20				0	60
Prot. String	13 3/8				0	1006
Prod. String	9 5/8				785	2937
Liner						

PRIMARY CEMENTING DATA

STRING	Surface	Protection	Production	Liner
Vol. of cement	NA	NA	NA	NA
Type of cement				
Additive				
Retarder				
Wt. of slurry				
Water loss				
Type fluid in csg.				
Fluid wt.				

FOLD HERE

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

PRIMARY CEMENTING PROCEDURE

	Hour — date	Hours from start of operation
Started pumping cement		
Release pressure		
Start Cement Bond Log	1200 5-10-80	
Finish Cement Bond Log	1600 5-10-80	

REMARKS
Service Order No. 123994
Csg. Collars Recorded ft.

Preceding fluid ______ Volume ______ bbls.
Cement pumped ______ bbls./minute

Pipe reciprocated during Pumping: Yes ______ No X
Pipe reciprocated after plug down: Yes ______ min., No X

SQUEEZE JOB DETAIL

Squeeze number	1	2
Date		
Depth interval		
Type cement		
Volume of cement		
Additive		
Retarder		
Weight of slurry		
Preceding fluid		
Breakdown pressure		
Max. pressure-stage 1		
" " " 2		
" " " 3		
Final maximum pressure		
Started pumping cement		
Released pressure		
Start CBL		
Finish CBL		

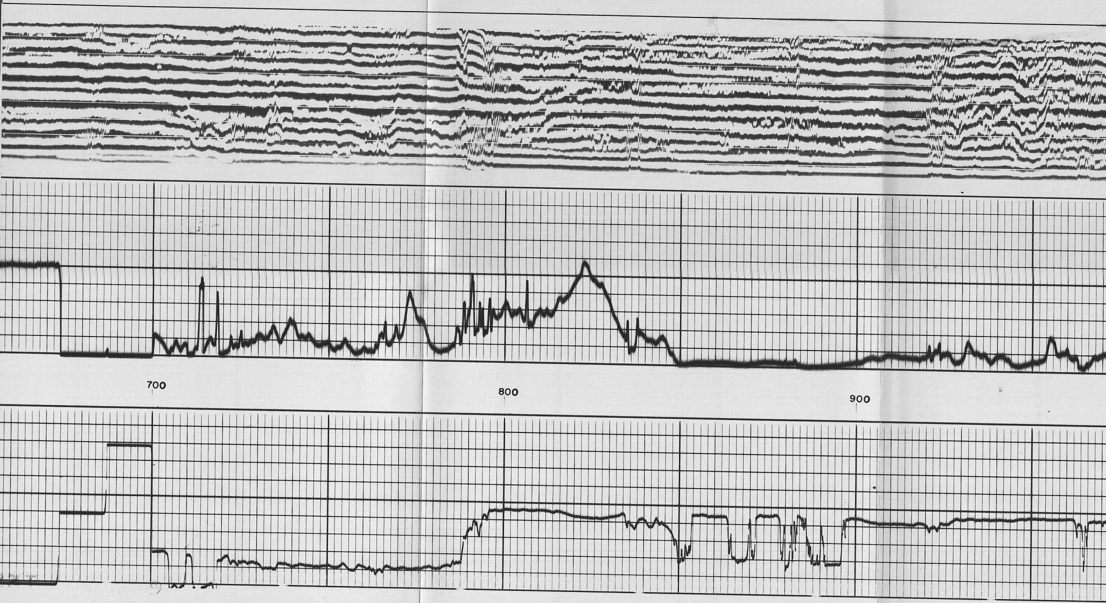
EQUIPMENT DATA

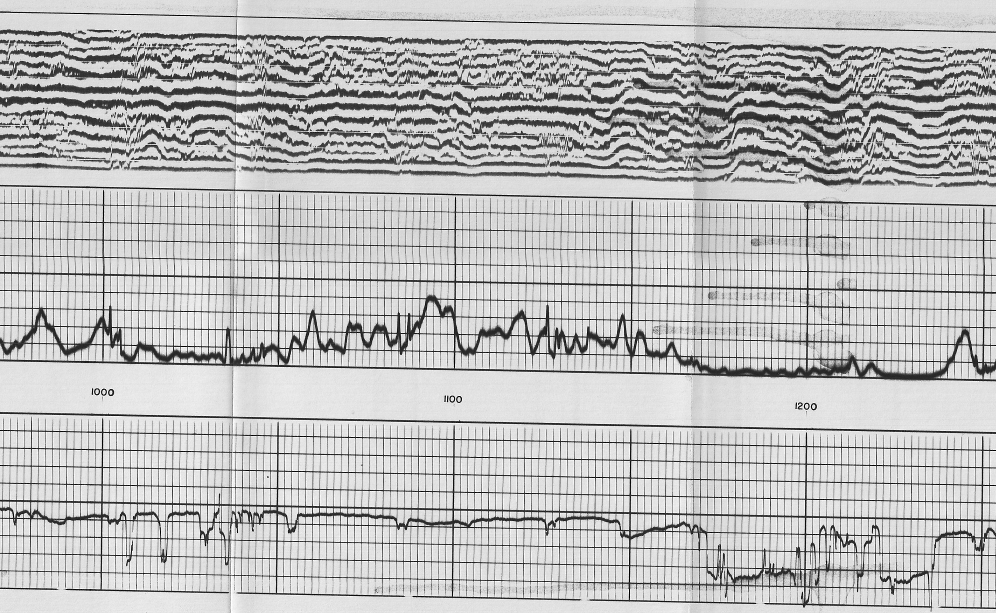
EQUIPMENT DATA		Centralizer Depths	Scratcher Depths
Sonic Panel No.	630		
Sonic Cart No.	520		
Sonic Sonde No.	1		
CRP No.	255		
Mem Panel No.	- -		
GR Panel No.	- -		
GR Cart No.	- -		
Centralizer: Type	CME-Z		
No.	1		
To Level (MV)	100		
Cart. Gain	1/20		
CRP Intensity	.25		
R9G Intensity	.7		
Logging Speed	40 FT/MIN.		
Time Constant	- -		

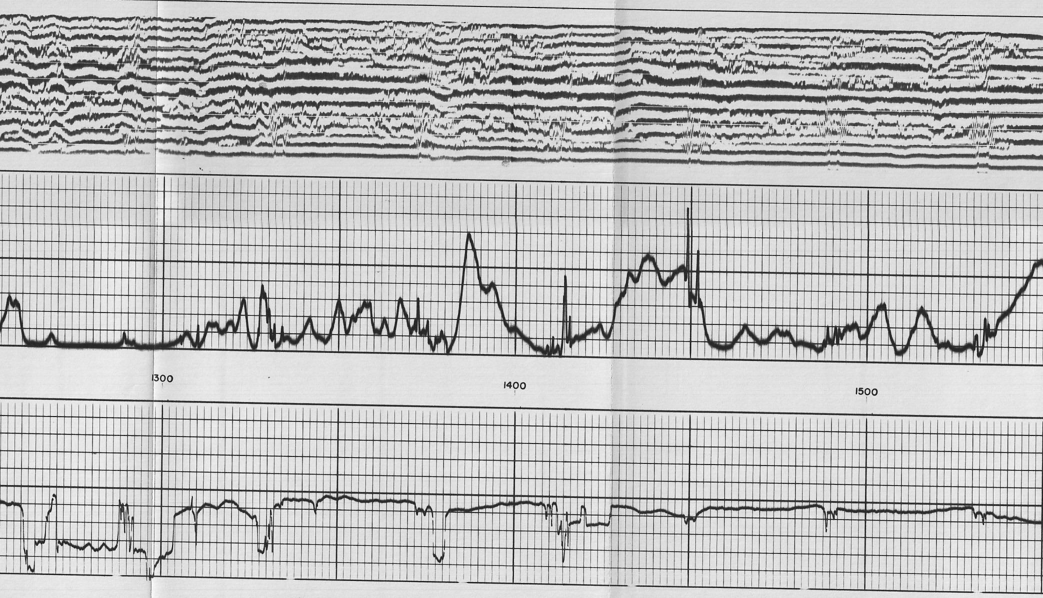
CAMERA VDL - OVERHEATED & QUIT
COOLED AND STARTED 2280-2380

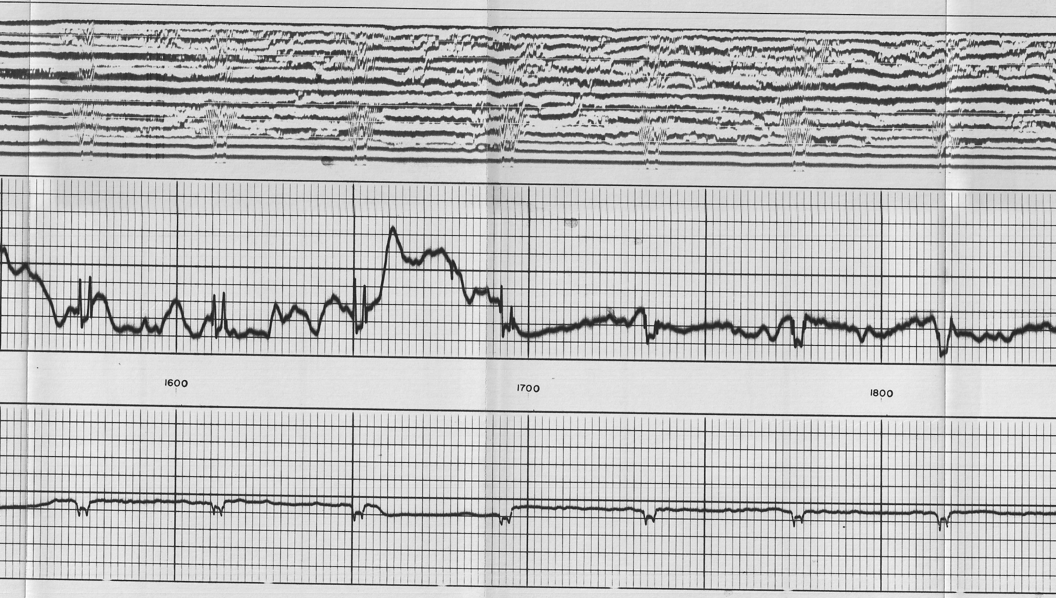
AVERAGE WELL DRIFT:
° from to ; ° from to ; ° from to

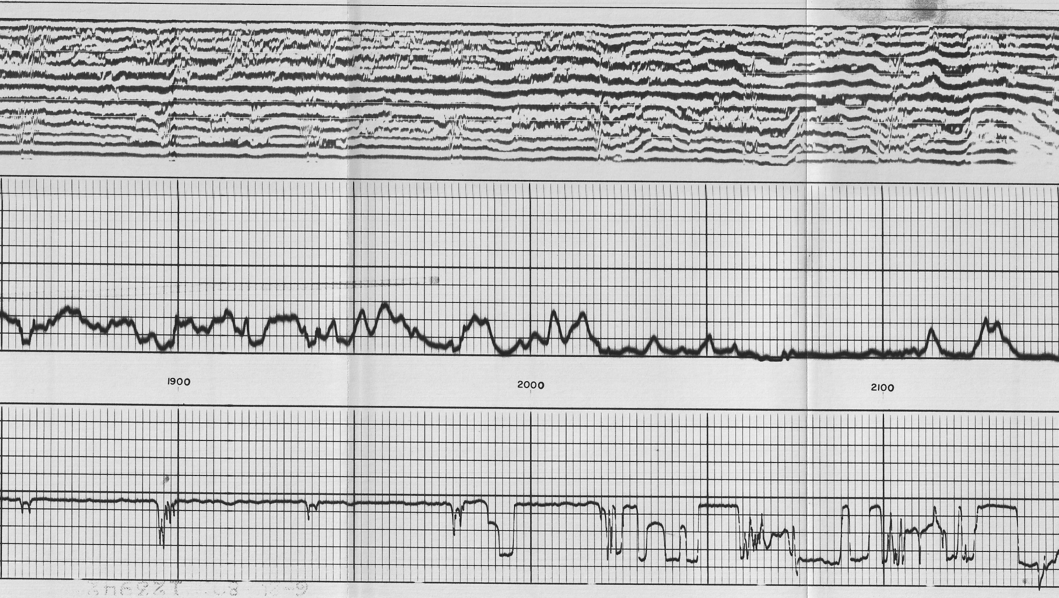
TRANSIT TIME	DEPTH	CASING BOND	VARIABLE DENSITY
MICROSECONDS 3' SPACING 400 200		MILLIVOLTS 0 50	MICROSECONDS 3' SPACING 200 1200











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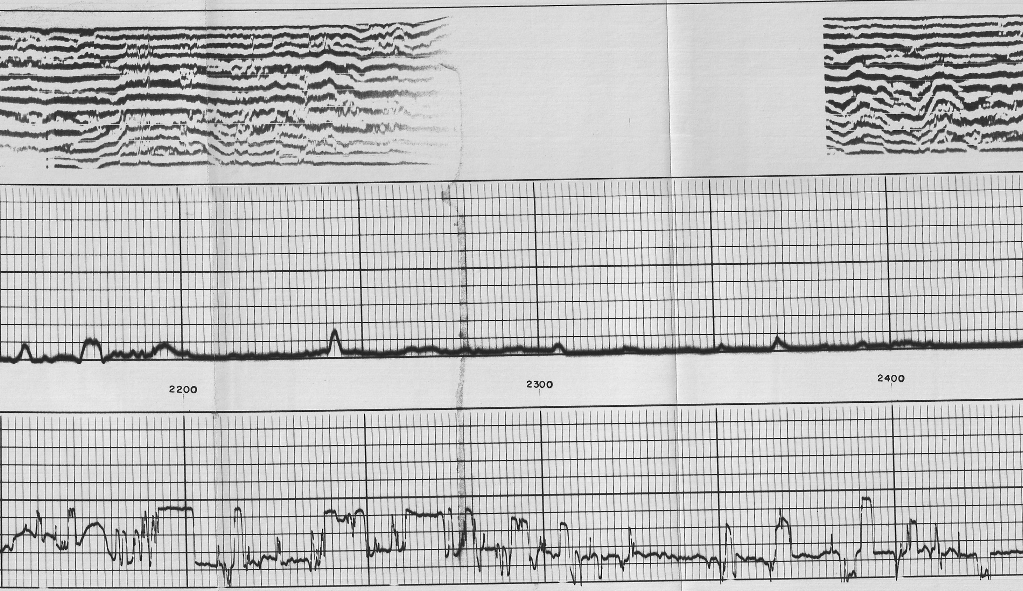

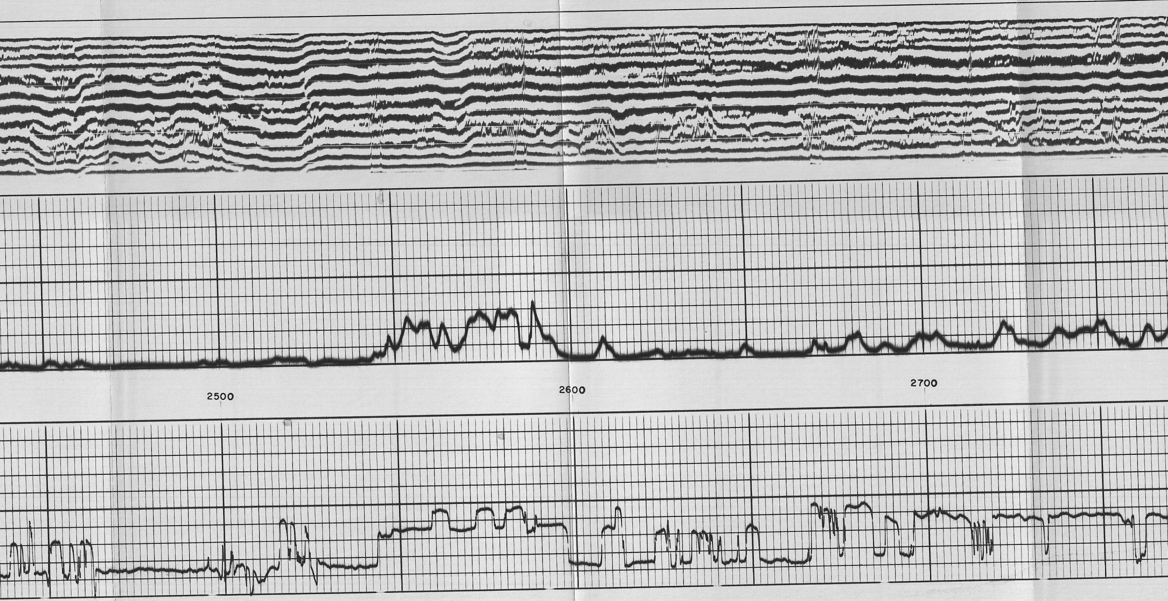

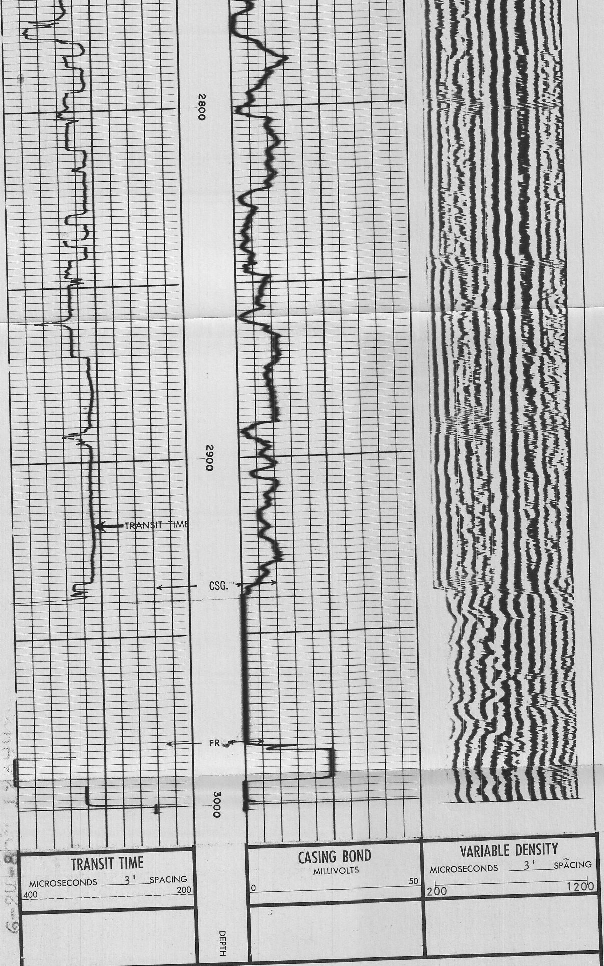

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SCHL. FR 2990
SCHL. TD 4543
DRLR TD 4543
Elev:
KB 4935
DF - -
GL 4920

CEMENT BOND CALIBRATION CODING

	Δt	AMPLITUDE
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	240 μ sec	ELECTRICAL ZERO
3.	320 μ sec	CALIBRATE
4.	400 μ sec	