GL01952-DOC1

Schlumberger

CEMENT BOND LOG
VARIABLE DENSITY

COUNTY [redacted]
Field or
LOCATIO
WELL
COMPANY CHEVRON U.S.A.

COMPANY CHEVRON U.S.A., INC.

K92832

WELL BEOWAWE 85-18
FIELD BEOWAWE GEYSERS
COUNTY LANDER STATE NEVADA

LOCATION API Serial No.
Sec. 18 Twp. 31N Rge. 48E

Other Services:
DI-SFL
BHC
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	Casing Fluid	GEL
Run No.	ONE	Fluid Level	FULL
Depth — Driller	4543	Max. Rec. Temp.	- - °F
Depth — Logger	4543	Est. Cement Top	- -
Btm. Log Interval	2980	Unit / District	7763 / SAC
Top Log Interval	50	Recorded By	ANDERSEN
Open Hole Size	$8\frac{3}{4}$"	Witnessed By	

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

PRIMARY CEMENTING DATA

STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement	5' SPACING VARIABLE DENSITY			
Additive	GAMMA RAY TO SURFACE			
Retarder	LOGGED FOR GAMMA RAY			
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 DATA

☐ Actual ☐ Estimated	Hour - Date
Started pumping cement	
Release pressure	
Start Cement Bond Log	
Finish Cement Bond Log	

REMARKS:
GR SCALE CHANGE AT 2550 UP HOLE=0-150
DOWN HOLE=0-100
VARIABLE DENSITY IS 14' DEEP.

Service Order Number
Casing Collar Memory Distance ft.
Radiation Log Memory Distance ft.

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

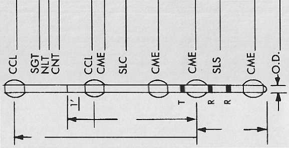
Pipe reciprocated during Pumping: Yes ____ No ____
Pipe reciprocated after plug down: Yes ____ min, No ____

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		

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

DOWNHOLE EQUIPMENT



SURFACE EQUIPMENT

	TYPE	MOD.	S.N.
Sonic Panel			
Memorizer			
GNP			
CRP			
OWE			

CRP Intensity	
R9G Intensity	
Logging Speed	
Time Constant	
Sweep Time μ-sec	
Amplitude mv/cm	

Casing Centralizer Pattern
/Joint from ____ to ____
/Joint from ____ to ____
/Joint from ____ to ____

Casing Scratcher Pattern
/Joint from ____ to ____
/Joint from ____ to ____
/Joint from ____ to ____

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 Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

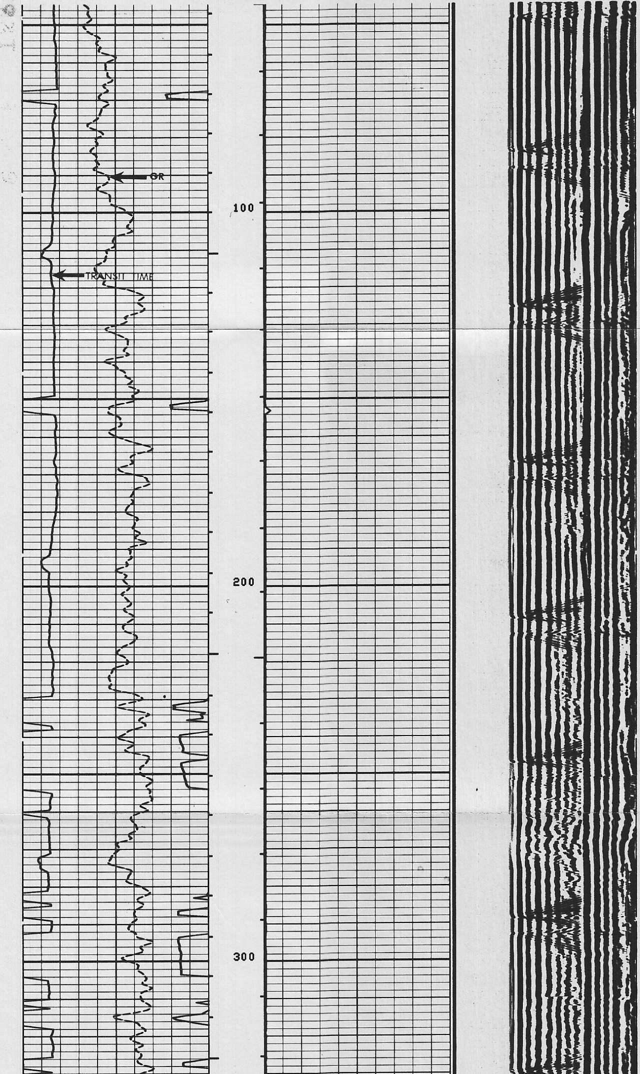
TRANSIT TIME
MICROSECONDS 3' SPACING
400 200

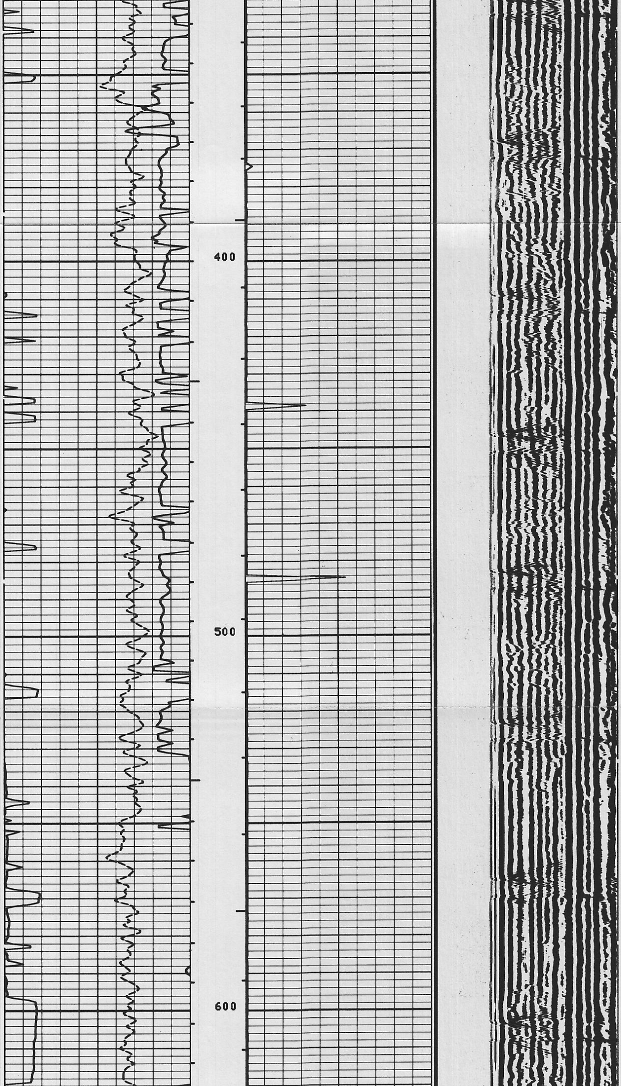
GAMMA RAY API UNITS
0

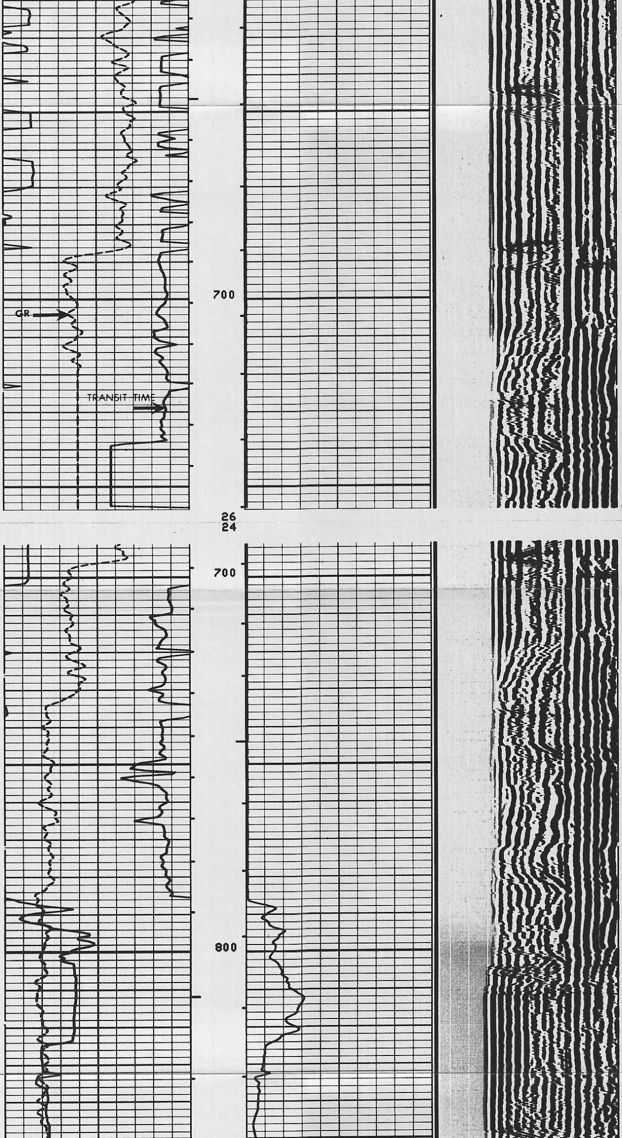
DEPTH

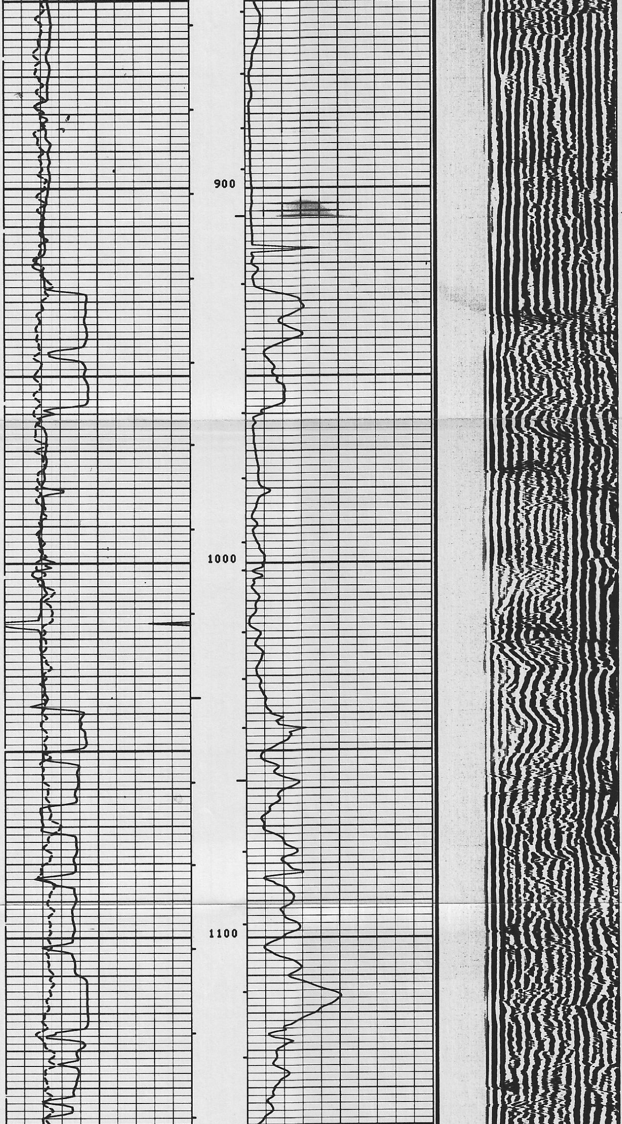
CASING BOND
MILLIVOLTS
0 NOT VALID 50
GATING WRONG
ON WEAK SIGNALS

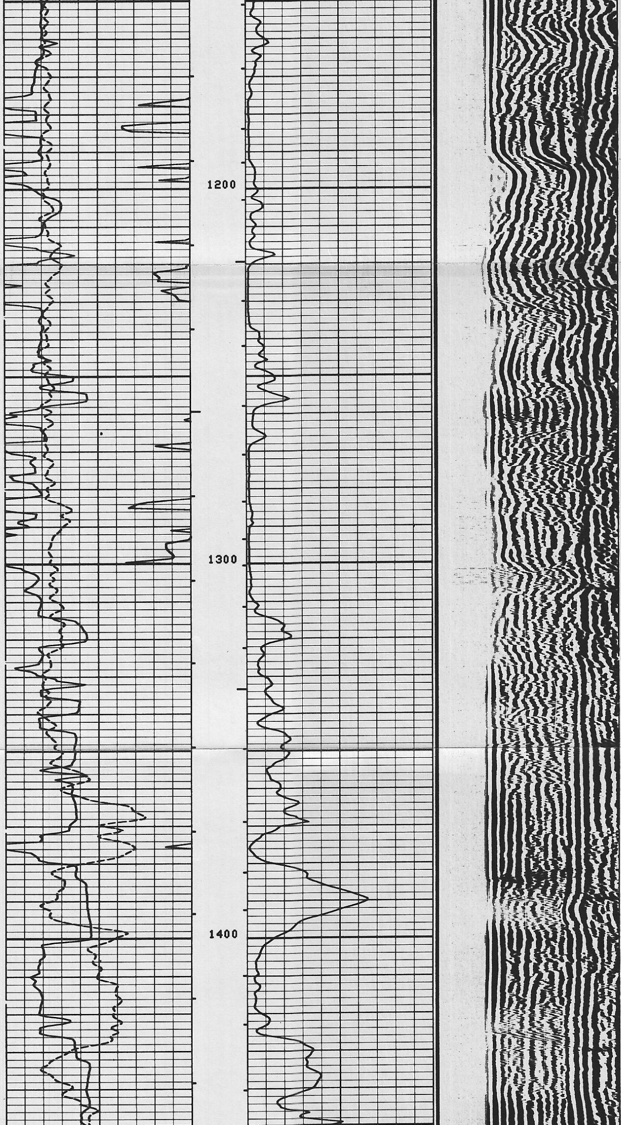
VARIABLE DENSITY
MICROSECONDS 5" SPACING
0 1500
RECORDED 14' DEEP

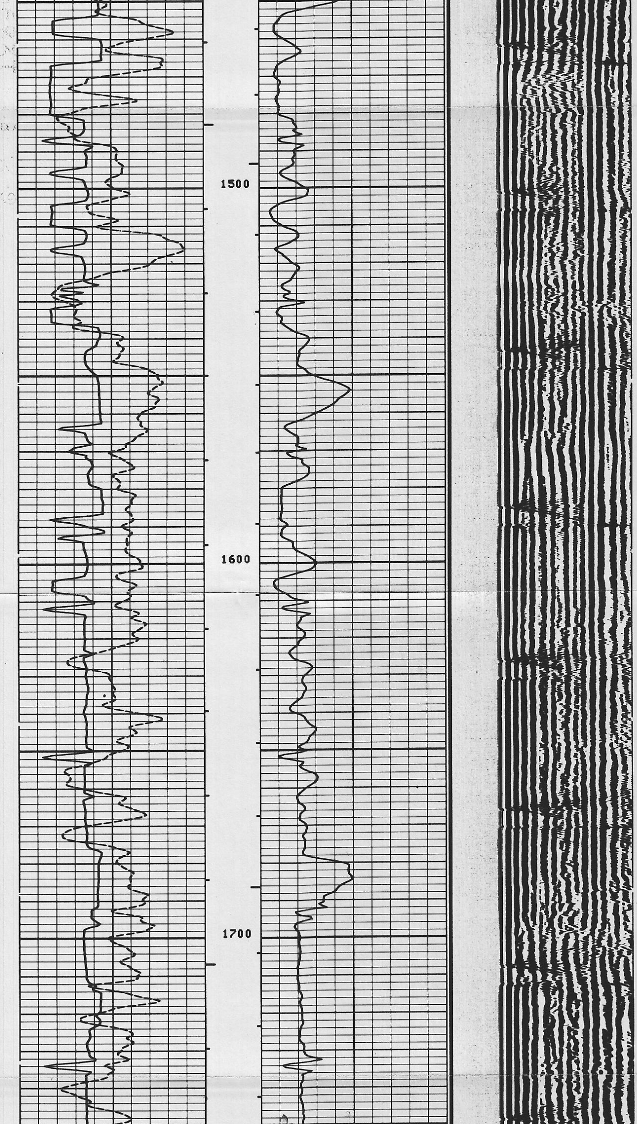


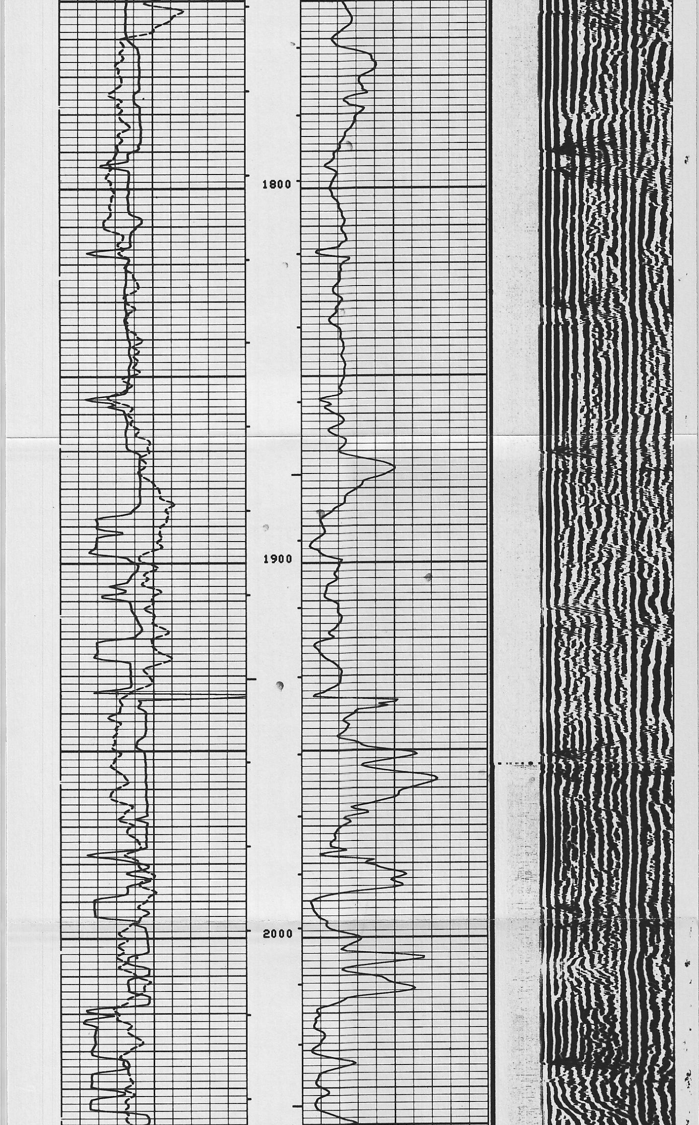


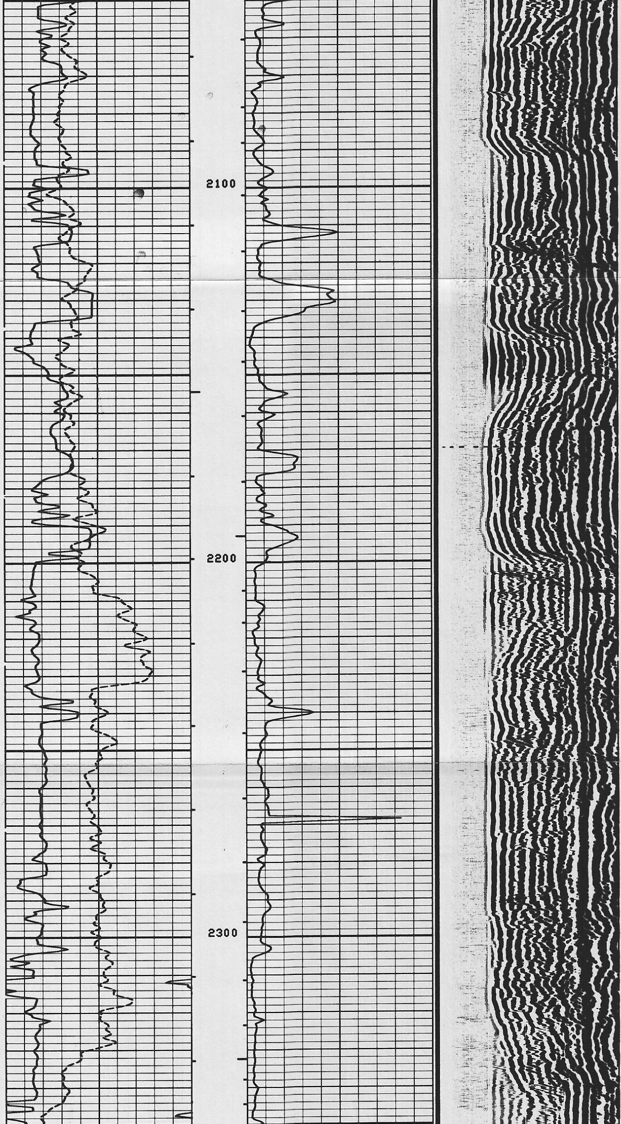


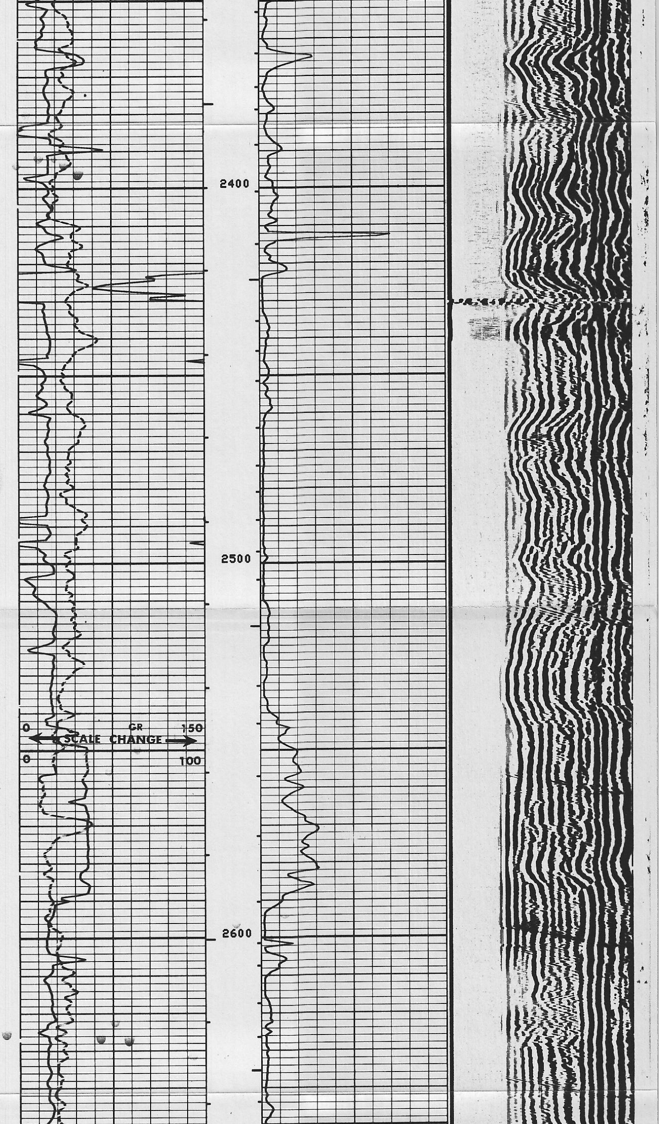


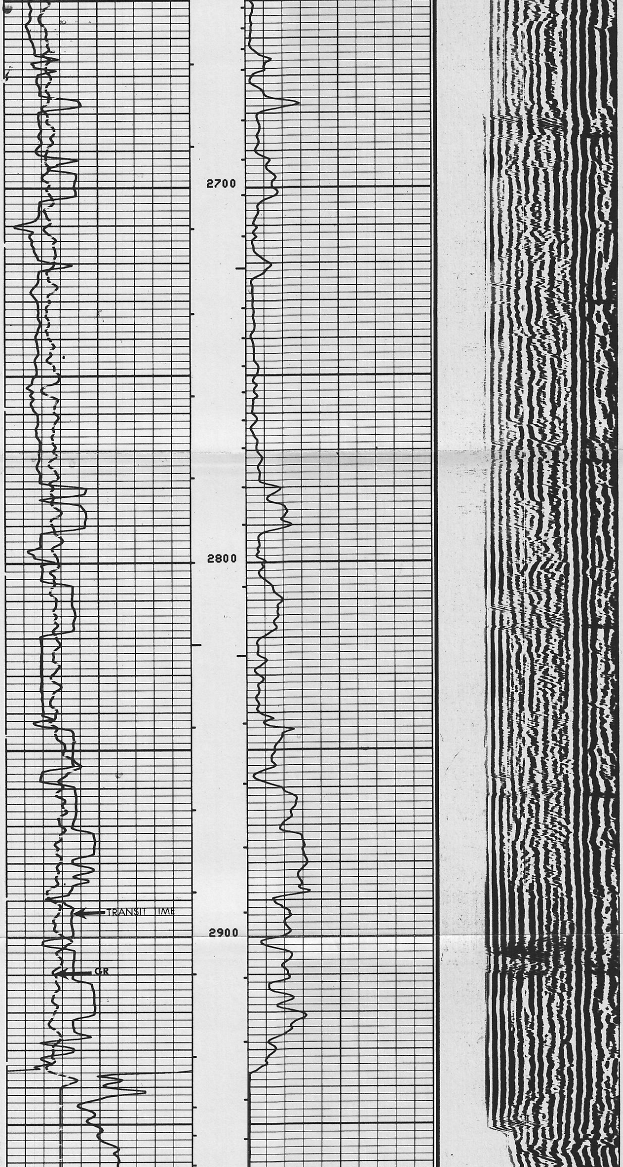


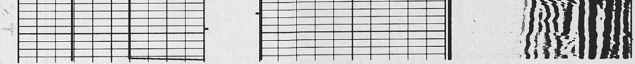












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TRANSIT TIME

MICROSECONDS 3' SPACING

400 200

GAMMA RAY API UNITS

0 100

DEPTH

CASING BOND

MILLIVOLTS

0

NOT VALID
GATING WRONG
ON WEAK SIGNAL

VARIABLE DENSITY

MICROSECONDS 5' SPACING

0 1500

COMPANY CHEVRON U.S.A., INC.

WELL BEOWAWE 85-18

FIELD BEOWAWE GEYSERS

COUNTY LANDER STATE NEVADA

SCHL. FR 2980
SCHL. TD 4543
DRLR TD 4543
Elev:
KB 4935
DF - -
GL 4920

CEMENT BOND CALIBRATION CODING

	TRANSIT TIME	AMPLITUDE
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	200 μ sec	ELECTRICAL ZERO
3.	320 μ sec	CALIBRATE 50 MV (SLP-J SERIES)
4.	400 μ sec	CALIBRATE 50 MV