oil well perforators inc.

O.W.P.

ACOUSTIC CEMENT BOND— GAMMA RAY LOG

COMPANY	LYC ENERGY C RP.
WELL	G.J.MILLER 34/24
FIELD	WATTENBERG
County	WELD
State	COLORADO
File	

COMPANY LYCO ENERGY CORPORATION
WELL G.J.MILLER 34-24
FIELD WATTENBERG
COUNTY WELD STATE COLORADO

Location SW/SE 660'FSL 1780'FEL
Sec. 24 Twp 6N Rge 65W

Other Logs

Elevation KB. 4693 DF. 4692 GL. 4680

Permanent Datum GROUND LEVEL Elev 4680
Log Measured From KELLY BUSHING, 13'AGL
Drilling Measured From KELLY BUSHING

Type Log	CBL/GR			
Run No.	ONE			
Date	12/30/83			
Total Depth Driller	7098			
Present Depth Driller				
Total Depth O.W.P.	7063			
Survey Begins	7056			
Survey Ends	6000			
Truck No.	553/337			
Location	BRIGHTON			
Type Fluid in Hole	waterWATER			
Salinity PPMC Cl				
Weight lb./gal.				
Fluid Level	750'			
Max. Hole Temp	240°F			
Recorded By	BRACKELSBERG			
Witnessed By	MR.HAMMOND			

BORE HOLE RECORD				CASING RECORD			
Run	Bit	From	To	Size	Wt.	From	To
				4 1/2"	11.6#	SURFACE	T.D.

EQUIPMENT DATA

Tool Serial No. 41 Model No. 145C Dia 3.375" Transmitter Frequency 22KHz
Gamma Ray Detector Type SCINT. Length 9" Receiver to Transmitter Spacing 1 METER
Distance To Bond Ref. 86" Free Casing = 85Mv

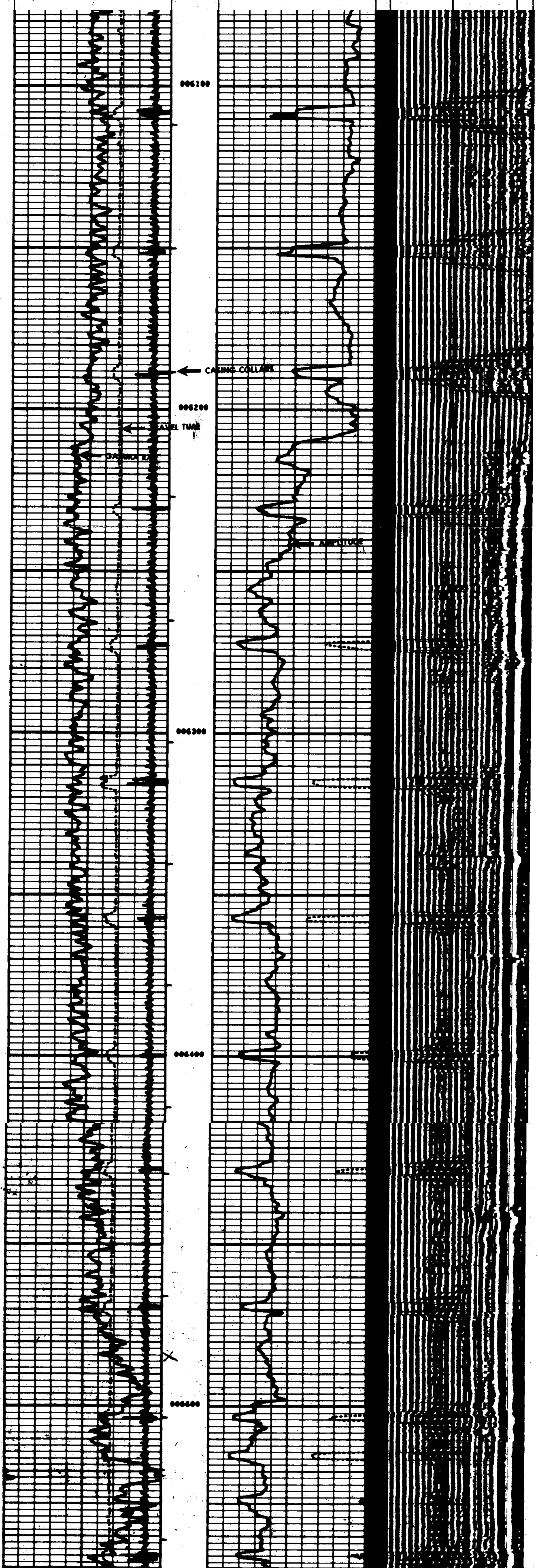
LOGGING DATA

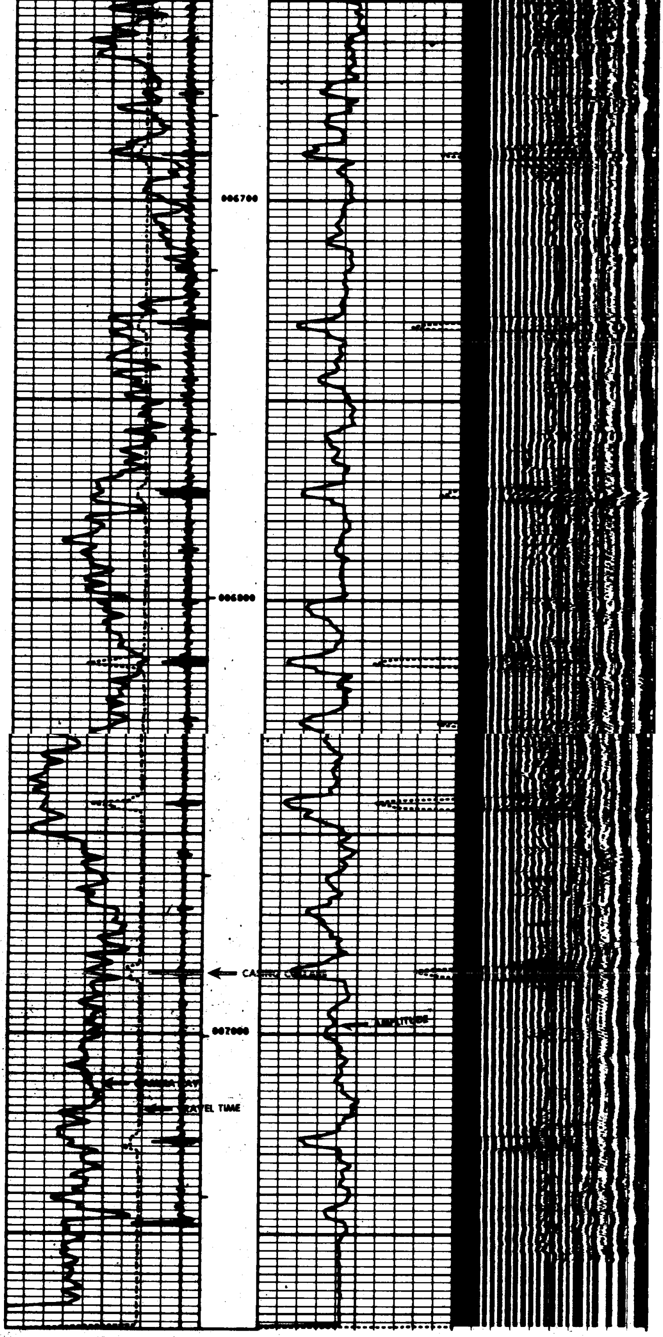
GENERAL					GAMMA RAY			AMPLITUDE			T. Time
Run No.	Depth From	Depth To	Speed Ft/Min.	TC Sec.	Span	Zero	Scale	Gain	Delay	Scale	Scale
1	7056	6000	40	1	300	0	CORRELATION	1.9	515	1. Mv/DIV	2.-4

CEMENTING DATA:

CEMENT BOND LOG RAN AFTER PRESSURE TESTING WELL TO 5000PSI.

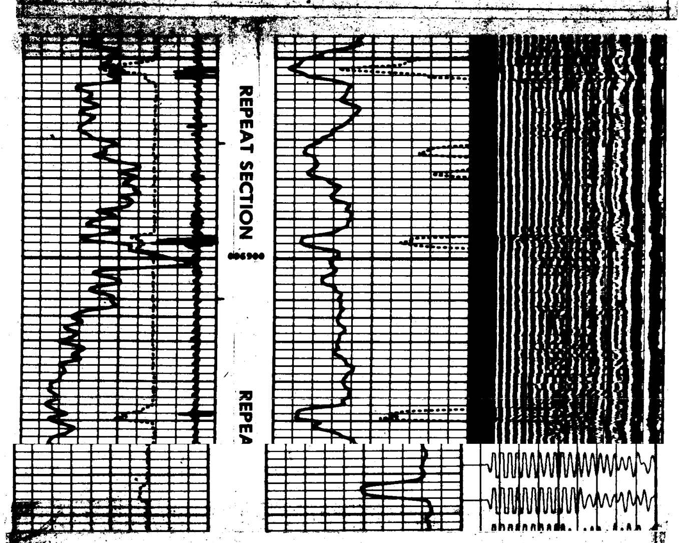
GAMMA RAY API UNITS TRANSIT TIME MICROSECONDS 400 200	CASING & COLLAR LOG DEPTH	AMPLITUDE CEMENT BONDING INCREASES 0 20 0 100	VARIABLE DENSITY or SEISMIC SPECTRUM TIME MICROSECONDS 100 1100





RADIATION INTENSITY INCREASES → GAMMA RAY MICROSECONDS TRANSIT TIME	DEPTH	FREE CASING → ← ACOUSTIC ZERO CEMENT BONDING INCREASES ← CEMENT BOND	MICROSECONDS VDL or SEISMIC

REPEAT SECTION



REPEAT SECTION

Company	LYCO ENERGY CORPORATION	Drillers T.D.	7098
Well	G.J.MILLER 34-24	Log R.D.	7056
Field	WATTENBERG	Log T.D.	7063
County	WELD	Elevations:	
State	COLORADO	K.B. 4693 D.F. 4692	G.L. 4680