Schlumberger

CEMENT BOND LOG

CSU

COMPANY: ARCO EXPLORATION & TECHNOLOGY CO.

WELL: COLUMBIA COUNTY #32-32

FIELD: WILDCAT
COUNTY: COLUMBIA
STATE: OREGON
NATION: USA
LOCATION: 1237'W & 1840'S OF
THE NE CORNER OF...
SEC: 32 TWP: 6N RGE: 5W

OTHER SERVICES-
CET
CEQL

PERMANENT DATUM: GL
ELEV. OF PERM. DATUM: 828.0 F
LOG MEASURED FROM: KB
14.5 F ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 842.5 F
DF:
GL: 828.0 F

PROGRAM
TAPE NO:
26.2
SERVICE
ORDER NO:
272113

DATE: 11 NOV 85
RUN NO: 2

RECEIVED
FEB 18 1986
DOGAMI
Portland

DEPTH-DRILLER: 2700.0 F
DEPTH-LOGGER: 2057.0 F
BTM. LOG INTERVAL: 2049.0 F
TOP LOG INTERVAL: 1700.0 F

CASING-DRILLER:	418 F	
CASING-LOGGER:	418 F	
CASING:	9.625	5.5
WEIGHT:	36.00 LB/F	17.00 LB/F
BIT SIZE:	12.25	8.5
DEPTH:	418 F	2700 F

TYPE FLUID IN HOLE: WATER
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE:
RM: AT
RMF: AT
RMC: AT
SOURCE RMF/RMC: /
RM AT BHT: AT
RMF AT BHT: AT
RMC AT BHT: AT

TIME CIRC. STOPPED:
TIME LOGGER ON BTM.:

MAX. REC. TEMP:

LOGGING UNIT NO: 5892
LOGGING UNIT LOC: BAKERSFIELD PROD. SERV.
RECORDED BY: HODENFIELD
WITNESSED BY: ADLER & ANDERSON

REMARKS:

LOG CORRELATED TO SCHLUM. DENS/NEU, NOV. 7, 85.
CEMENT TYPE: CLASS "G".
WELL WAS CEMENTED ON NOV. 9, 85. THIS PASS IS
IS THE SECOND RUN, 12 HOURS LATER THAN THE FIRST.

EQUIPMENT NUMBERS-

NLM-BC 69 SLM-DA 1158 SLC-FA 1009 SLS-WA 1225
SGC-JC 2199 CAL-R 1222

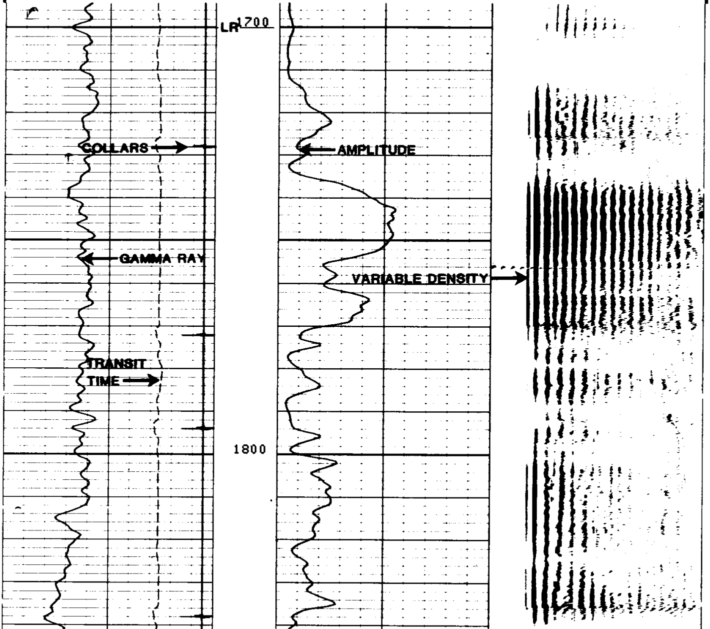
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS,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

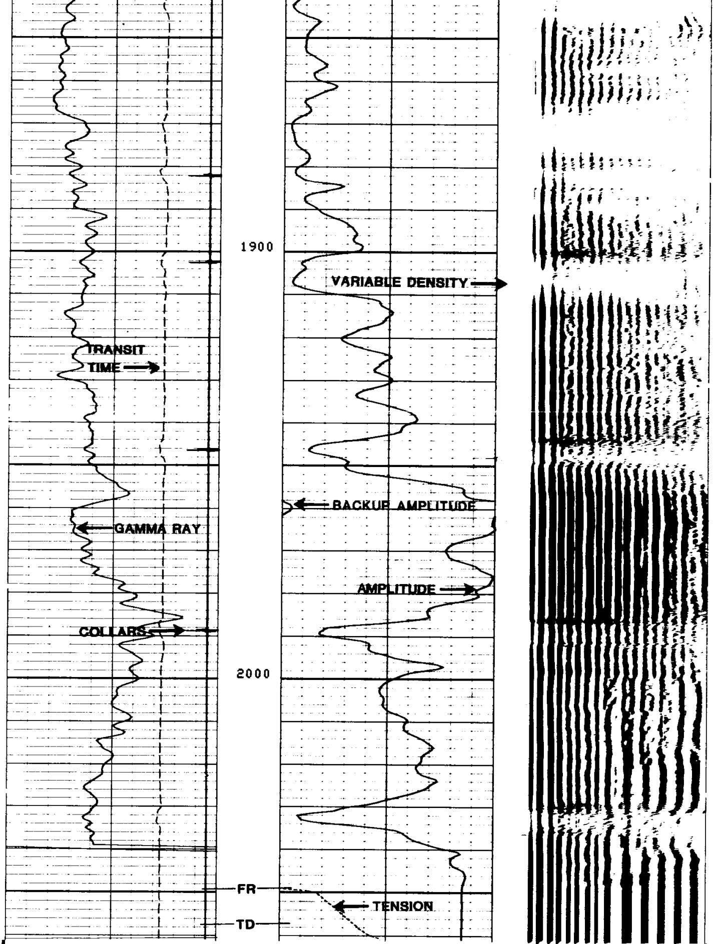
FILE 0 11-NOV-85 04:02

TT2 (US)		TENS(LB)	
400.00 200.00		1000.0 0.0	
CCL		CBL (MV)	
-19.00 1.0000		50.000 100.00	
GR (GAPI)		CBL (MV)	VDL
0.0 150.00		0.0 50.000	200.00 1200.0

FILE 4 11-NOV-85 03:30

MAIN LOG





FILE 4 11-NOV-85 03:21

MAIN LOG

TT2 (US) 400.00 200.00	TENS(LB) 1000.0 0.0	
CCL -19.00 1.0000	CBL (MV) 50.000 100.00	
GR (GAPI) 0.0 150.00	CBL (MV) 0.0 50.000	VDL 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

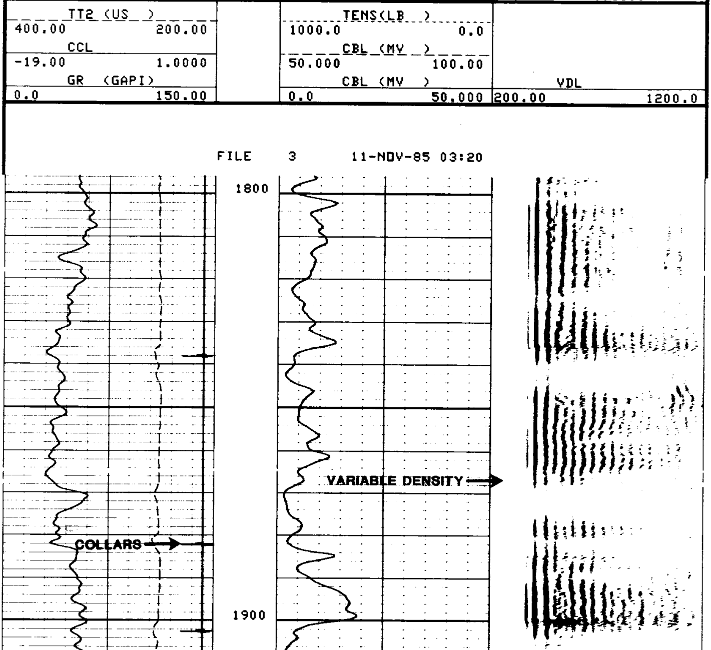
CBL	8.6	FEET	AMPL	8.6	FEET
TT3	8.6	FEET	TT4	8.6	FEET
TT1	8.6	FEET	TT2	8.6	FEET
GR	28.4	FEET	SRAT	8.6	FEET
CCL	32.0	FEET	TENS	8.6	FEET
NOIS	0.0	FEET			

PARAMETERS

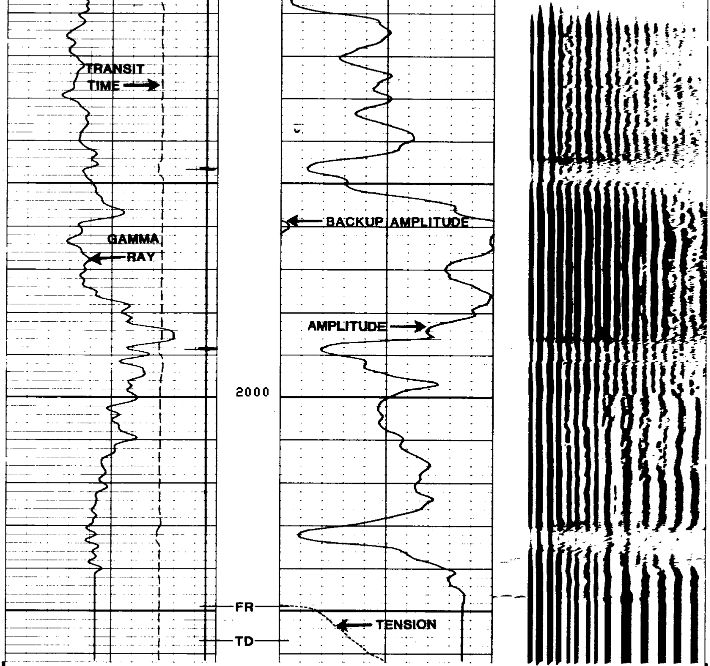
NAME	VALUE	UNIT	NAME	VALUE	UNIT
BILI	.700000		MSA	3.00000	MV
CSTR	2500.00	PSIA	CWEI	17.0000	LB/F
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
BHS	CASE		CSIZ	5.50000	IN
BS	8.50000	IN			

CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)
MSA	1.22534	MV	2069.4	MSA	3.00000	MV	1935.0



FILE 3 11-NOV-85 03:20



FILE 3 11-NOV-85 03:11 **REPEAT SECTION**

TT2 (US)		TENS(LB)		
400.00	200.00	1000.0	0.0	
CCL		CBL (MV)		
-19.00	1.0000	50.000	100.00	
GR (GAPI)		CBL (MV)		VDL
0.0	150.00	0.0	50.000	200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

CBL	8.6	FEET	AMPL	8.6	FEET
TT3	8.6	FEET	TT4	8.6	FEET
TT1	8.6	FEET	TT2	8.6	FEET
GR	28.4	FEET	SRAT	8.6	FEET
CCL	32.0	FEET	TENS	8.6	FEET
NOIS	0.0	FEET			

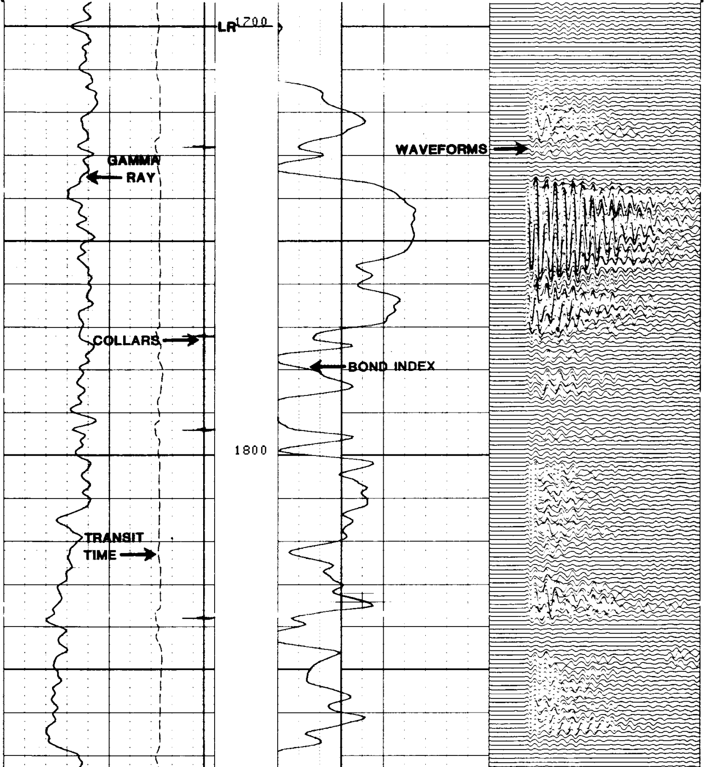
PARAMETERS

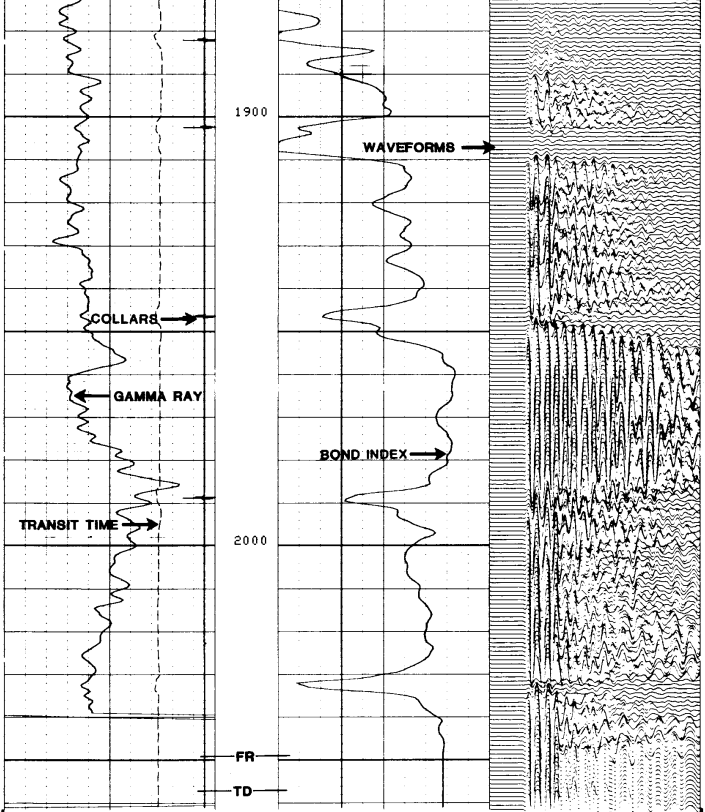
NAME	VALUE	UNIT	NAME	VALUE	UNIT
BILI	.700000		MSA	1.22534	MV
CSTR	2500.00	PSIA	CWEI	17.0000	LB/F
WSV1	WF1		DWS	16	
DSIN	5	US	DDEL	200	US
CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
BHS	CASE		CSIZ	5.50000	IN
BS	8.50000	IN			

TT2 (US) 400.00 200.00		
CCL -19.00 1.0000	BILI 1.0000 0.0	
GR (GAPI) 0.0 150.00	BI 1.0000 0.0	WAVE 200.00 1200.0

MAIN LOG

FILE 4 11-NOV-85 03:30





FILE 4 11-NOV-85 03:21 **MAIN LOG**

Track 1		Track 2		Track 3	
TT2 (US)					
400.00	200.00				
CCL		BILI			
-19.00	1.0000	1.0000	0.0		
GR (GAPI)		BI		WAVE	
0.0	150.00	1.0000	0.0	200.00	1200.0

SENSOR MEASURE POINT TO TOOL ZERO

CBL	8.6 FEET		AMPL	8.6 FEET	
TT3	8.6 FEET		TT4	8.6 FEET	
TT1	8.6 FEET		TT2	8.6 FEET	
GR	28.4 FEET		SRAT	8.6 FEET	
CCL	32.0 FEET		TENS	8.6 FEET	
NOIS	0.0 FEET				

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT

BILI	.700000		MSA	3.00000	MV
CSTR	2500.00	PSIA	CWEI	17.0000	LB/F
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CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH (F)	NAME	VALUE	UNIT	DEPTH (F)
MSA	1.22534	MV	2069.4	MSA	3.00000	MV	1935.0

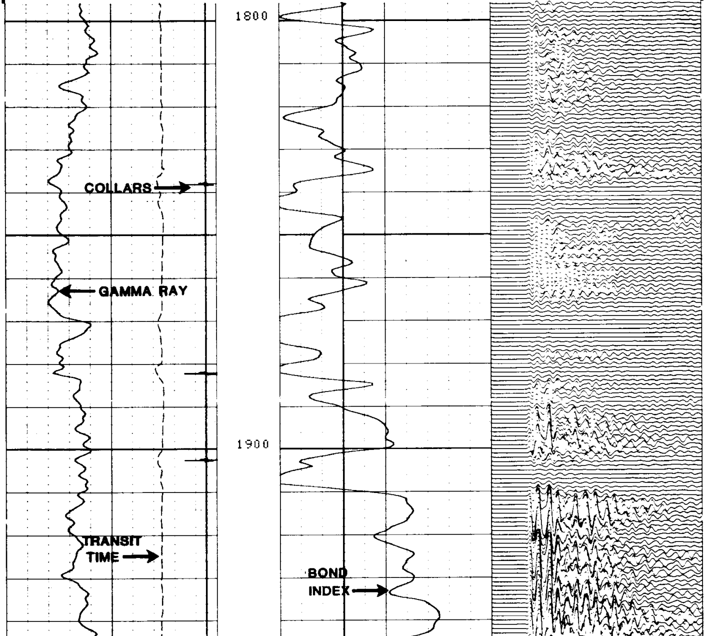
TT2 (US)
400.00 200.00
CCL
-19.00 1.0000
GR (GAPI)
0.0 150.00

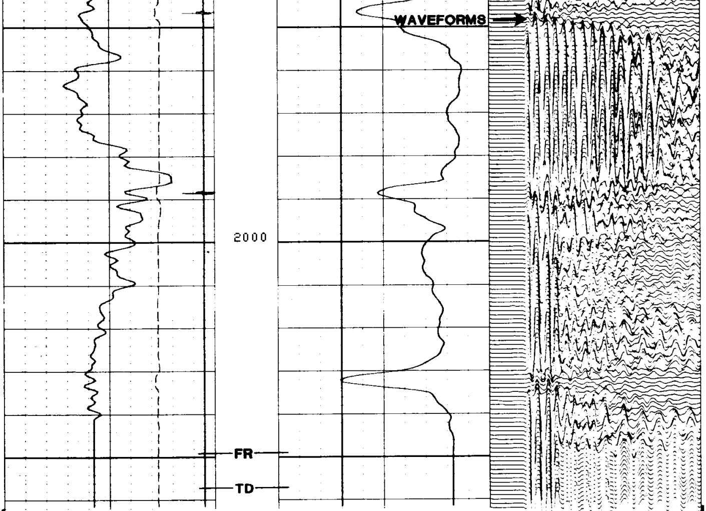
BILI
1.0000 0.0
BI
1.0000 0.0

WAVE
200.00 1200.0

REPEAT SECTION

FILE 3 11-NOV-85 03:20





FILE 3 11-NOV-85 03:11 **REPEAT SECTION**

TT2 (US)			
400.00	200.00		
CCL		BILI	
-19.00	1.0000	1.0000	0.0
GR (GAPI)		BI	WAVE
0.0	150.00	1.0000 0.0	200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

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CDTS	100.000		DWCO	512	
DTF	189.000	US/F	DTM	56.0000	US/F
BHS	CASE		CSIZ	5.50000	IN
BS	8.50000	IN			

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 85/11/11
PROGRAM FILE: CBLWA (VERSION 26.2 85/01/26)

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	25	175	160	GAPI

FILE 0 11-NOV-85 02:48