DOGAMI #508

Schlumberger

CEMENT BOND GAMMA RAY LOG

COUNTY	COLUMBIA
FIELD	MIST GAS STORAGE
LOCATION	N 03 03-15 E 2286 41 & S 86-56-45
WELL	IW 22DH-22-65
COMPANY	NORTHWEST NATURAL GAS CO.

COMPANY NORTHWEST NATURAL GAS CO.

WELL IW 22DH-22-65

FIELD MIST GAS STORAGE

COUNTY COLUMBIA **STATE** OREGON

LOCATION
N 03-03-15 E 2286.41' & S 86-56-45
1915.16' FROM THE SW CORNER OF SEC. 22

Other Services:

API SERIAL NO.	SECT.	TWP.	RANGE
36-009-00328	22	6N	5W

Permanent Datum	G.L.	Elev.	579.7 F	Elev.: K.B.595.7 F
Log Measured From	K.B.	16.0 F	above Perm. Datum	D.F.
Drilling Measured From	K.B.			G.L.579.7 F

Date	22-JAN-1998			
Run No.	ONE			
Depth Driller	1995.0 F			
Depth Logger (Schl.)	1990.0 F			
Btm. Log Interval	1980.0 F			
Top Log Interval	60.0 F			
Type Fluid in Hole	WATER			
Salinity NaCl				
Density	8.30 LB/G			
Fluid Level	0.0 F			
Max. Rec. Temp.				
Deviation				
Logger on Bottom	SEE LOG			
Equip. | Location	8303	BAKERSFIELD		
Recorded By	GREG PERRY			
Witnessed By	MR. ROTH			
BOREHOLE RECORD				
Bit Size	12 1/4"			
Depth	1995.0 F			
CASING & TUBING RECORD				
Size	8 5/8"			
Weight	32.0000 LB/F			
Casing Top-Driller	0.0 F			
Casing Top-Logger	0.0 F			
Casing Shoe-Driller				
Casing-Logger				

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

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 wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations 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.

Run No.	ONE	
Service Order No.		
Logging Speed	1800.0 F/HR	
EQUIPMENT DATA		
Tool Number 1	CME1	
Tool Number 2	CBTE	
Tool Number 3	SGTL	
Tool Number 4	TCCB	
Tool Number 5		
Tool Number 6		
Tool Number 7		
Tool Number 8		
Tool Number 9		
Tool Number 10		
Tool Number 11		
Tool Number 12		

REMARKS:

TIED INTO LOG RAN ON 1-16-98.

THANKS FOR CHOOSING SCHLUMBERGER!!!!!!!

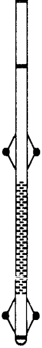
LOGGING TOOL STRING SKETCH

CALY		34.9 F
	CCL	34.2 F
TCCB		31.4 F

SGTL 28.4 F

GR 27.5 F

CBTE 22.9 F



TT1 6.5 F

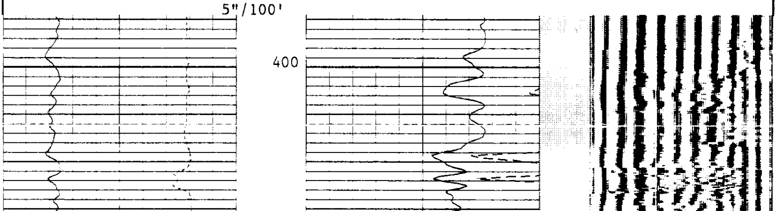
TOOL ZERO

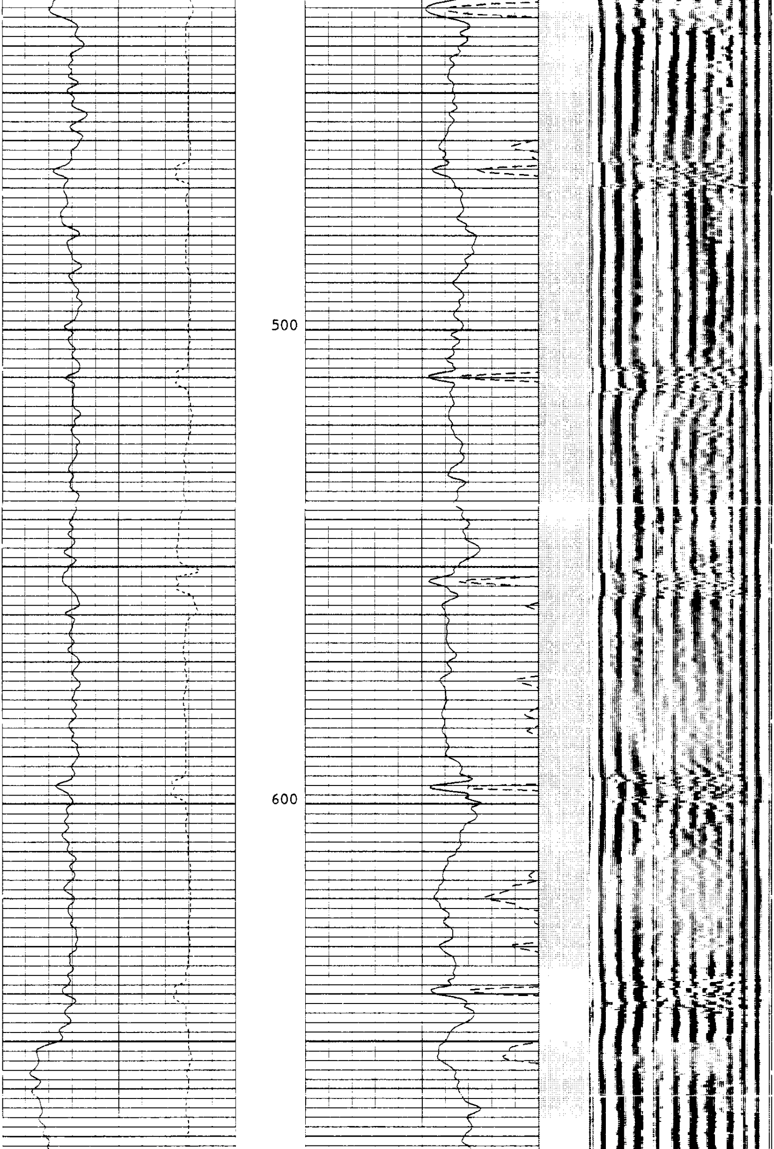
TOTAL TOOL STRING LENGTH IS 37.2 F.
TOTAL TOOL STRING WEIGHT IS 522. LB IN AIR.

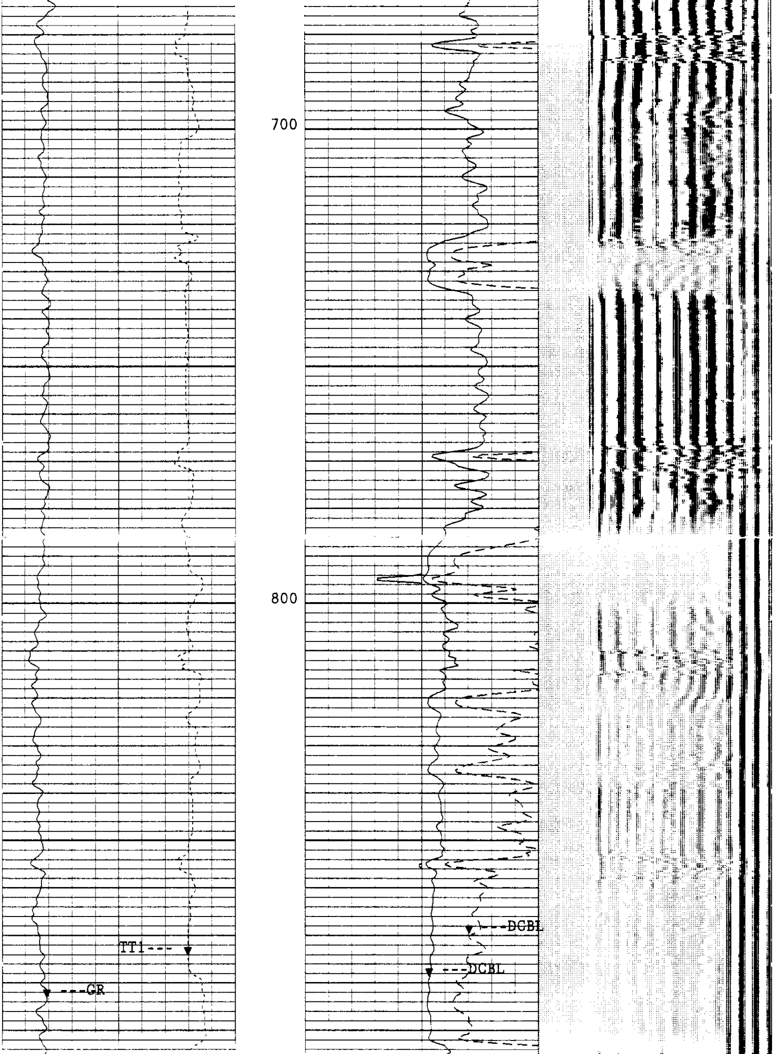
MAIN PASS - 1250 PSI

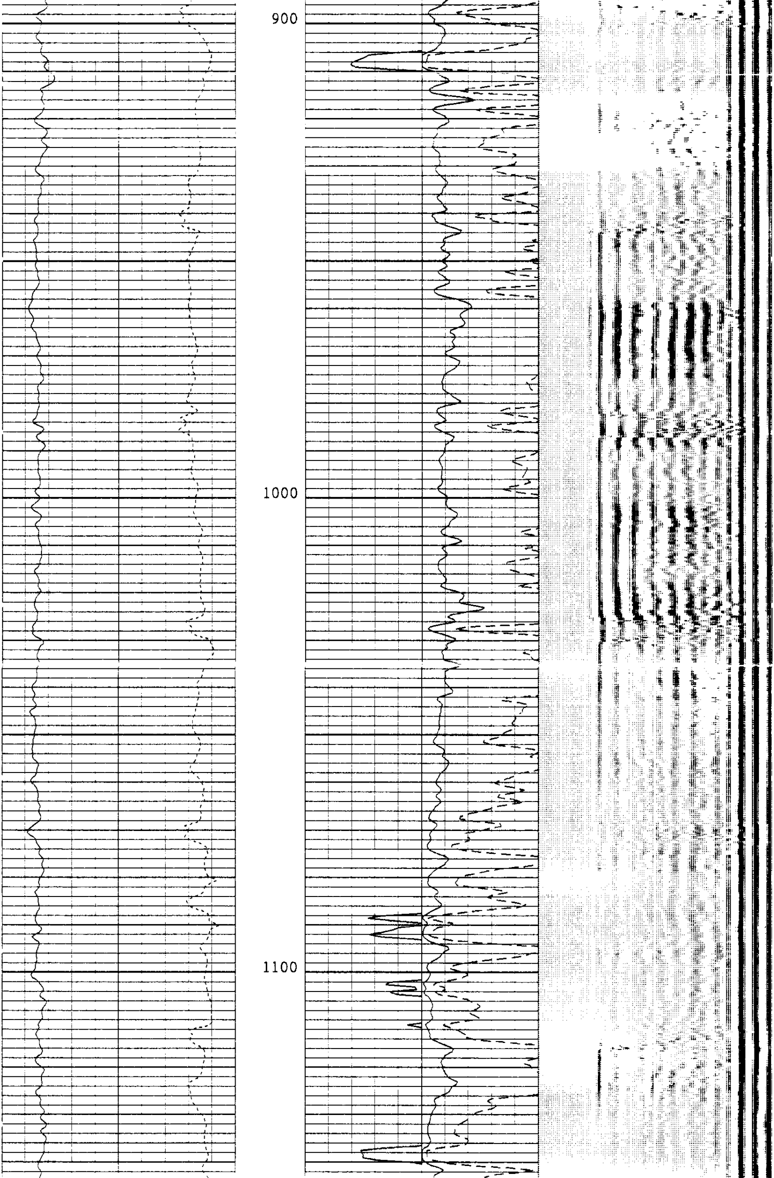
TT1(US) 400.00 300.00 GR(GAPI) 0.0 150.00	DBI 1.0000 .50000	DCBL(MV) 0.0 20.000 DCBL(MV) 0.0 100.00	VDL(US) 200.00 1200.0
COLLARS	BOND >80%		

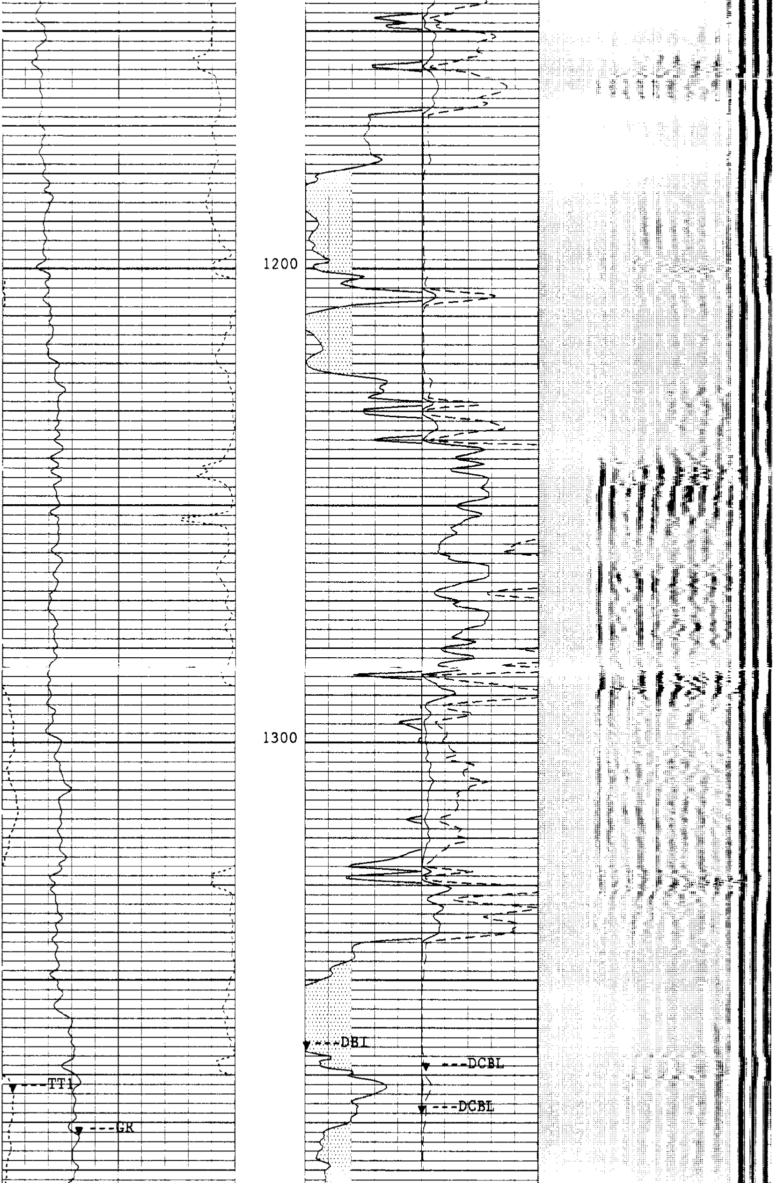
CP 44.2 FILE 12 20-JAN-1998 00:59 (UP)

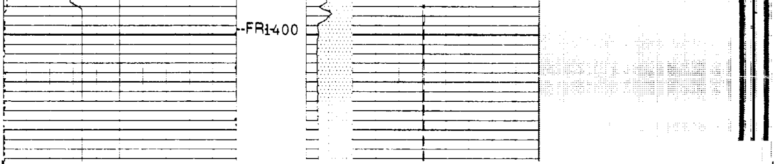












5"/100'

CP 44.2 FILE 12 20-JAN-1998 00:29 (UP)

COLLARS

BOND >80%

TT1(US)
400.00 300.00
GR(GAPI)
0.0 150.00

DBI
1.0000 .50000

DCBL(MV)
0.0 20.000
DCBL(MV)
0.0 100.00

VDL(US)
200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

DTT 3.8 FEET
CBTE 29.6 FEET

SGTL 36.1 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SMB	ALLO		VDLR	2IN	
DWF	VDL		SMSG	149	US
NMSG	240	US	FMSG	297	US
VMSG	388	US	AGC	ALLO	
GAI	600.000		SLC	DB	
CSRL	DISA		DTMD	185.000	US/F
FTTM	307.403	US	NTTM	250.403	US
TTFF	15.0000	US	NFPI	63.0000	MV
SFPI	75.0000	MV	SALL	2.00000	MV
MATT	15.0000	DB/F	MATS	18.0000	DB/F
NCJT	GSRY		DWCO	120	
DSIN	10	US	DDEL	0	US
BS	12.2500	IN	BHS	CASE	
CSIZ	8.67500	IN			

MAIN PASS

TT1(US)
400.00 300.00
GR(GAPI)
0.0 150.00

DBI
1.0000 .50000

DCBL(MV)
0.0 20.000
DCBL(MV)
0.0 100.00

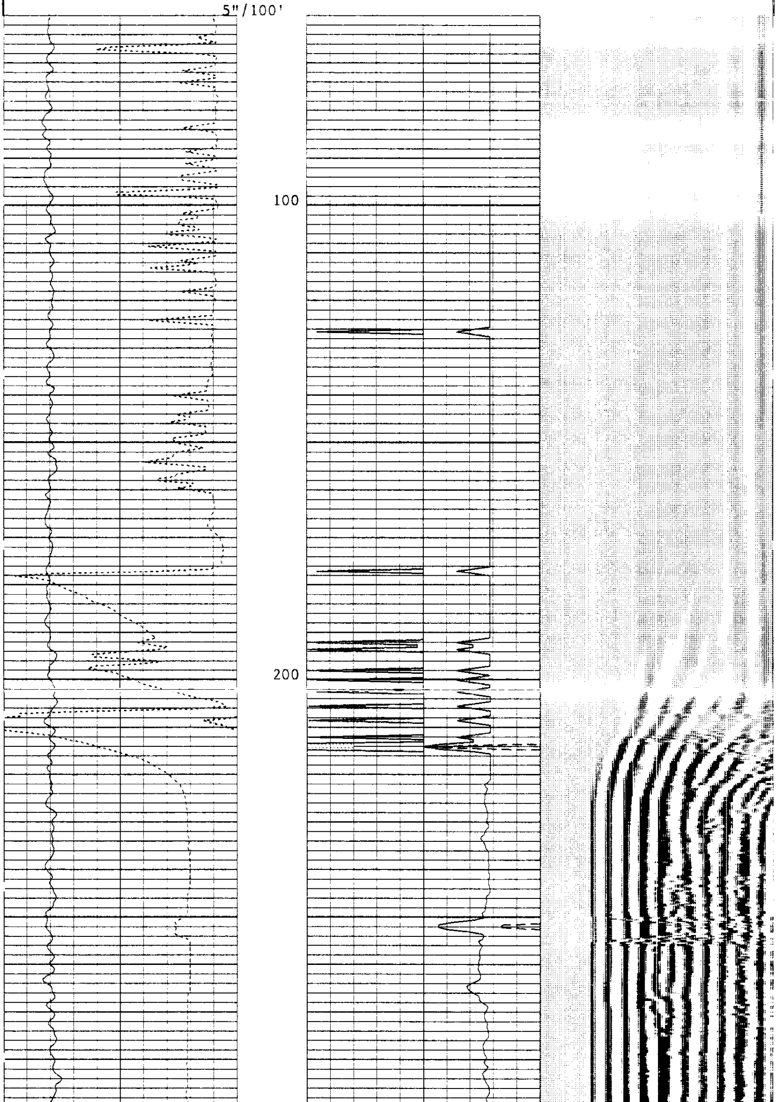
VDL(US)
200.00 1200.0

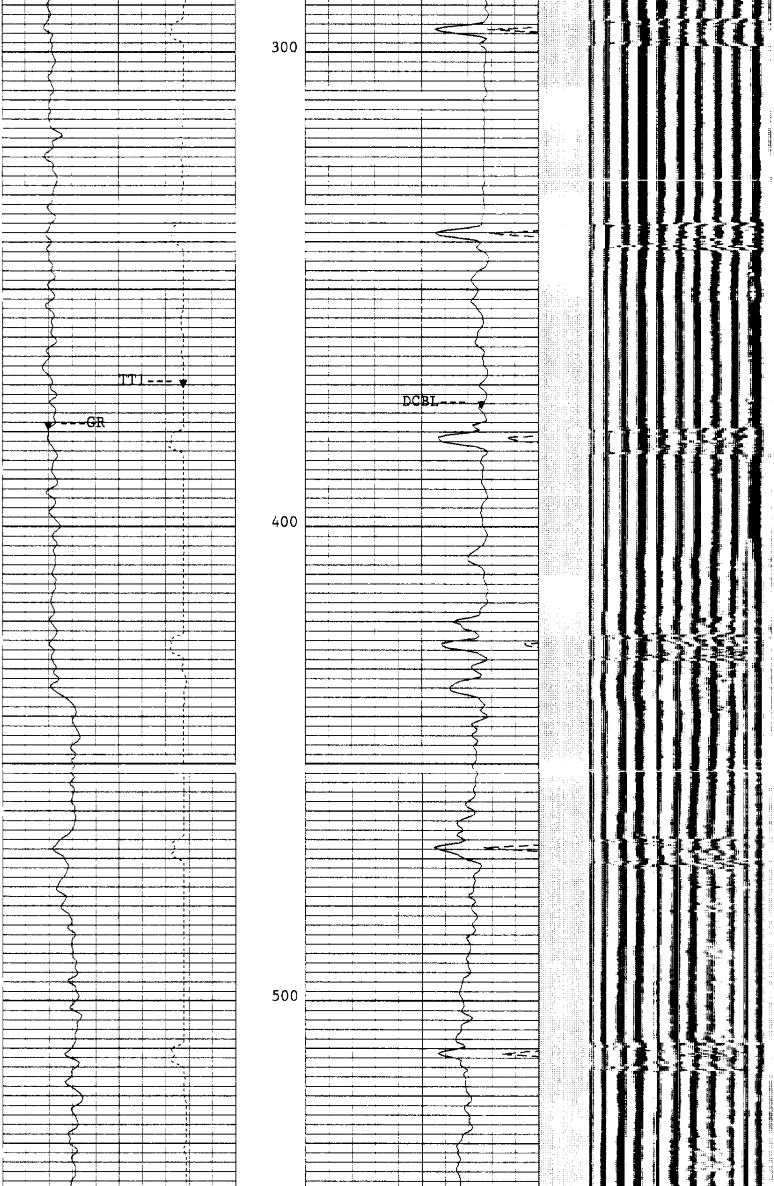
COLLARS

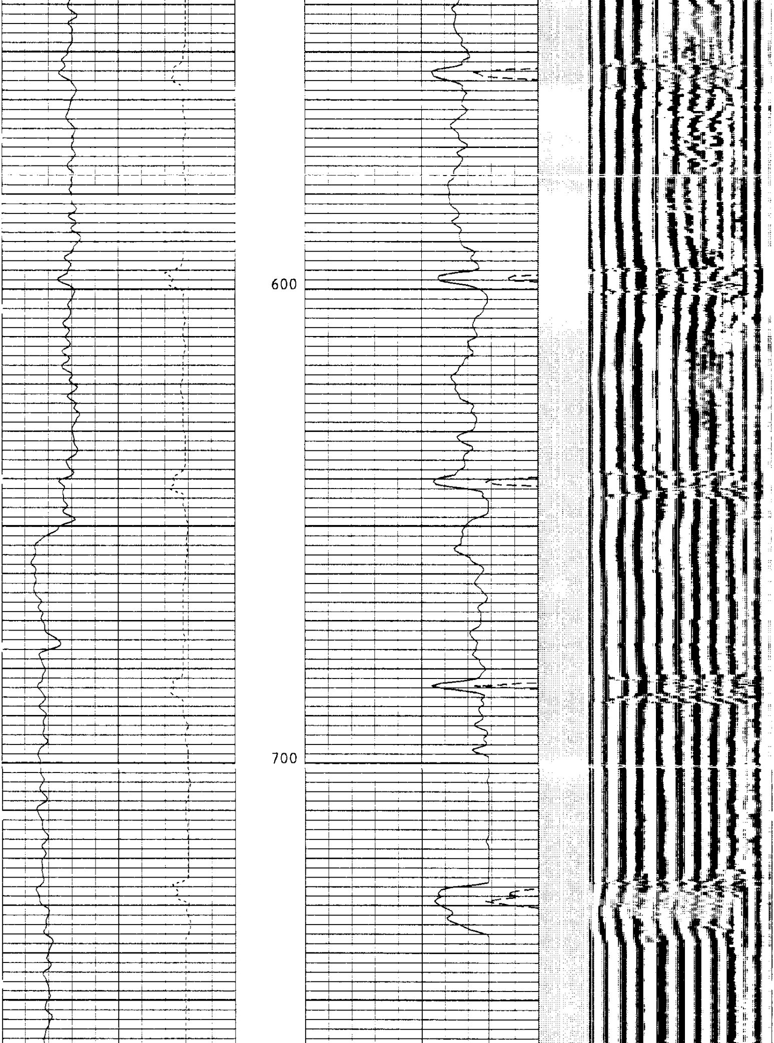
BOND >80%

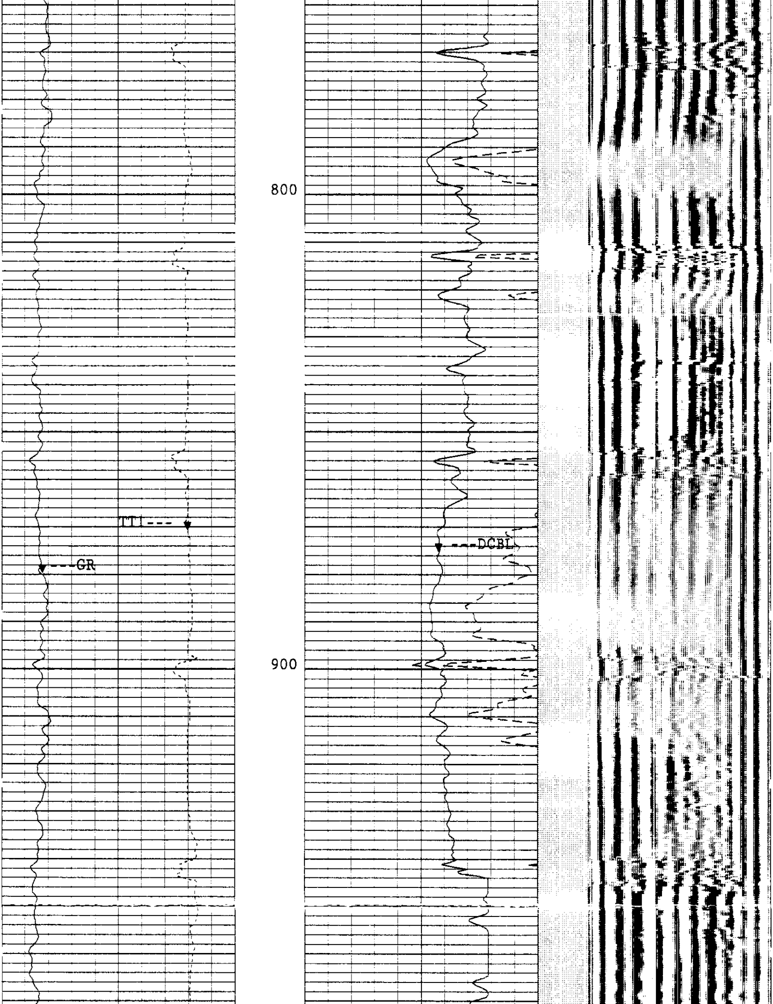
CP 44.2 FILE 9 19-JAN-1998 23:41

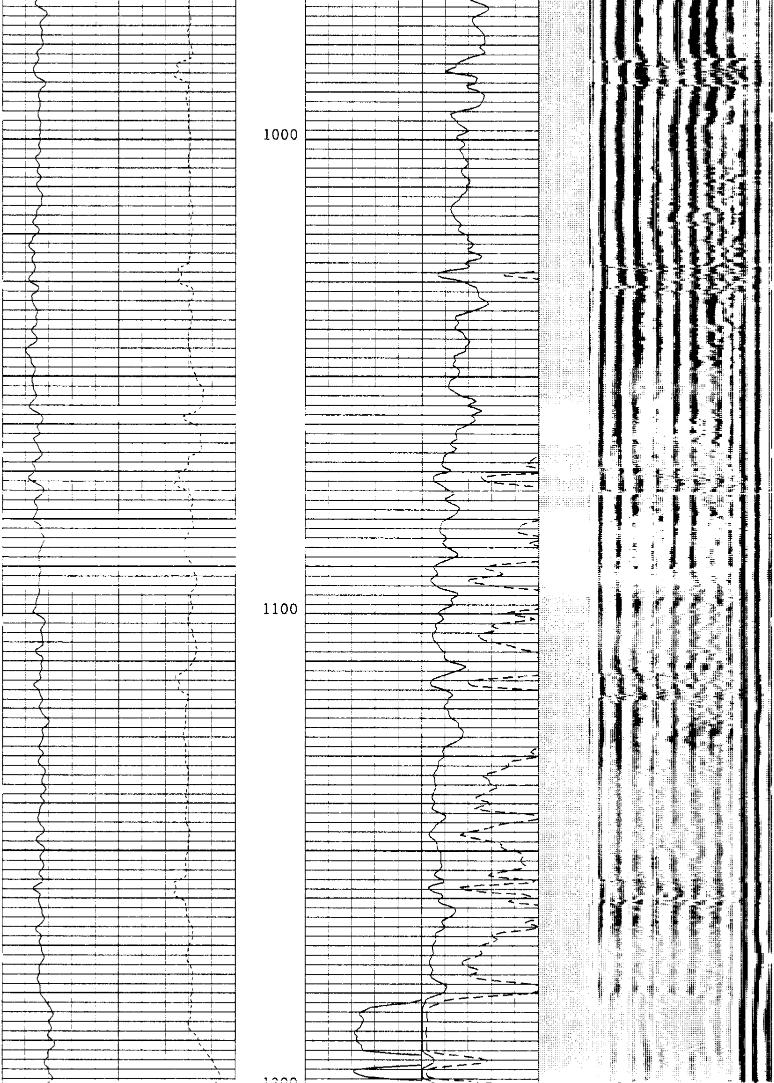
INPUT FILE(S)	CREATION DATE
5	19-JAN-1998 22:38

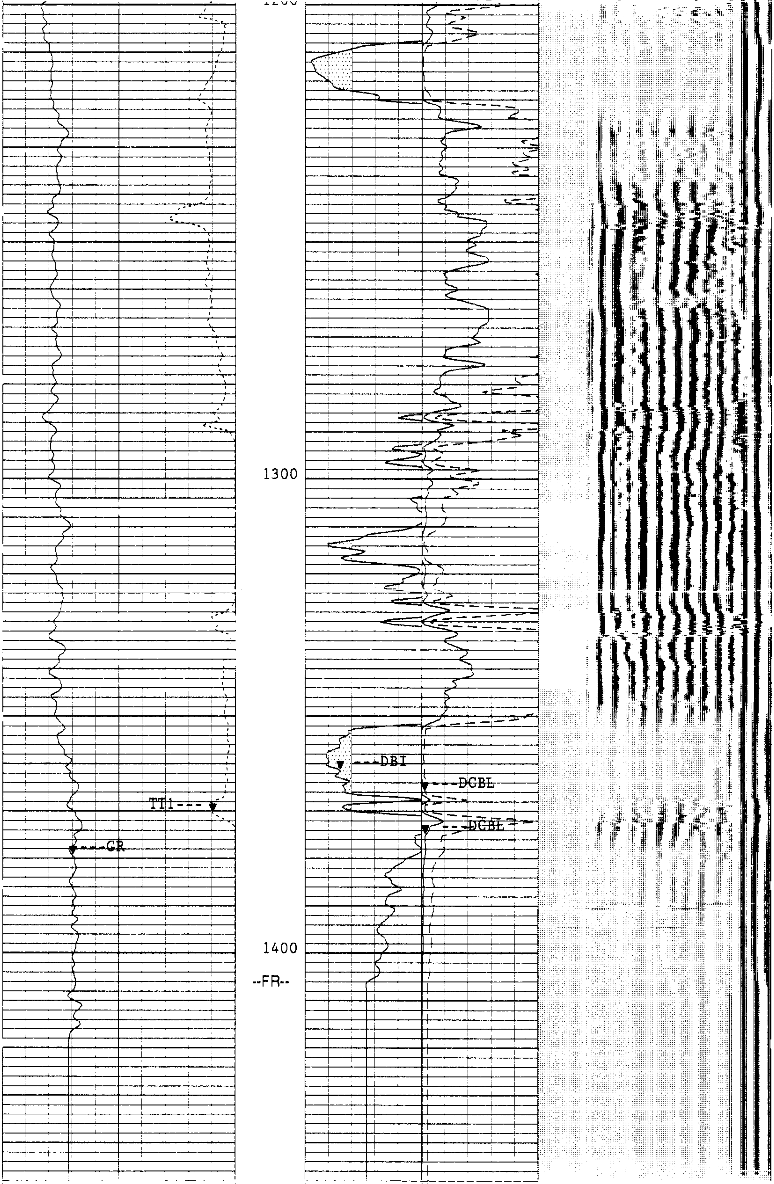












5"/100'

CP 44.2   FILE 9   19-JAN-1998 23:36

INPUT FILE(S)   CREATION DATE
5   19-JAN-1998 22:38

COLLARS		BOND >80%		
TT1(US) 400.00 300.00			DCBL(MV) 0.0 20.000	
GR(GAPI) 0.0 150.00		DBI 1.0000 .50000	DCBL(MV) 0.0 100.00	VDL(US) 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

DTT 3.8 FEET   SGTL 36.1 FEET
CBTE 29.6 FEET

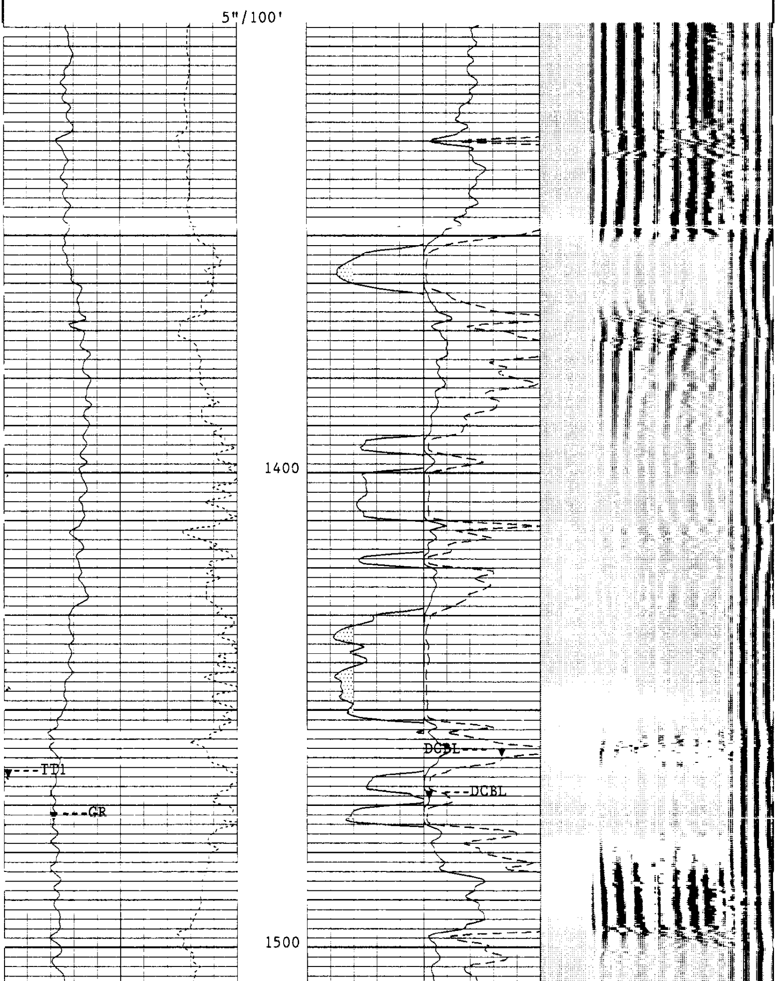
PARAMETERS

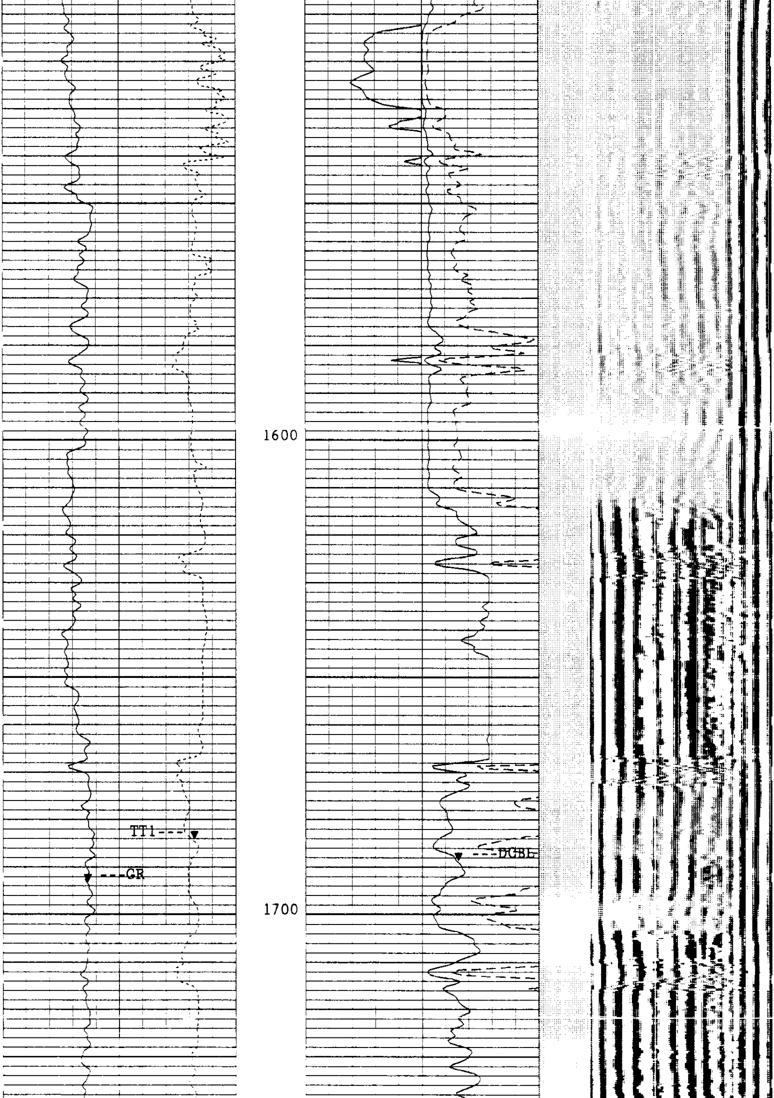
NAME	VALUE	UNIT	NAME	VALUE	UNIT
SMB	ALLO		VDLR	2IN	
DWF	VDL		SMSG	149	US
NMSG	250	US	FMSG	310	US
VMSG	388	US	AGC	ALLO	
GAI	600.000		SLC	DB	
CSRL	DISA		DTMD	185.000	US/F
FTTM	307.403	US	NTTM	250.403	US
TTFF	15.0000	US	NFPI	63.0000	MV
SFPI	75.0000	MV	SALL	2.00000	MV
MATT	15.0000	DB/F	MATS	18.0000	DB/F
PP	NORM		DO	0.0	F
NCJT	GSRY		DWCO	120	
DSIN	10	US	DDEL	0	US
BS	12.2500	IN	BHS	CASE	
CSIZ	8.67500	IN			

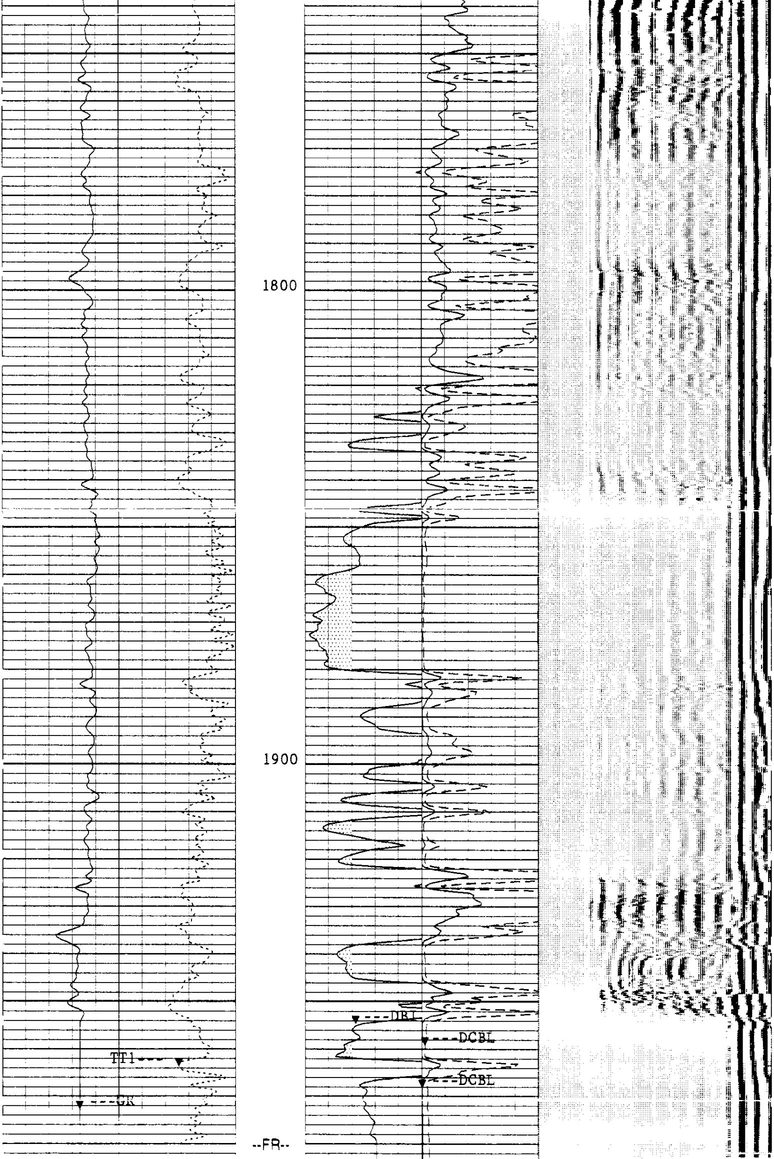
TT1(US) 400.00 300.00			DCBL(MV) 0.0 20.000	
GR(GAPI) 0.0 150.00		DBI 1.0000 .50000	DCBL(MV) 0.0 100.00	VDL(US) 200.00 1200.0
COLLARS		BOND >80%		

CP 44.2   FILE 19   23-JAN-1998 00:48

INPUT FILE(S)   CREATION DATE
17   22-JAN-1998 23:20







5"/100'

CP 44.2 FILE 19 23-JAN-1998 00:46

INPUT FILE(S) CREATION DATE
17 22-JAN-1998 23:20

COLLARS

BOND >80%

TT1(US)
400.00 300.00
GR(GAPI)
0.0 150.00

DBI
1.0000 .50000

DCBL(MV)
0.0 20.000
DCBL(MV)
0.0 100.00

VDL(US)
200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

DTT 3.8 FEET
AMS 45.3 FEET

SGTL 36.1 FEET
CBTE 29.6 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SMB	ALLO		VDLR	2IN	
DWF	VDL		SMSG	149	US
NMSG	240	US	FMSG	297	US
VMSG	388	US	AGC	ALLO	
GAI	600.000		SLC	DB	
CSRL	DISA		DTMD	185.000	US/F
FTTM	307.403	US	NTTM	250.403	US
TTFF	15.0000	US	NFPI	63.0000	MV
SFPI	75.0000	MV	SALL	2.00000	MV
MATT	15.0000	DB/F	MATS	18.0000	DB/F
PP	NORM		DO	4.00000	F
NCJT	GSRY		DWCO	120	
DSIN	10	US	DDEL	0	US
DTCI	0.0	F	BS	12.2500	IN
BHS	CASE		CSIZ	8.67500	IN

REPEAT SECTION

TT1(US)
400.00 300.00
GR(GAPI)
0.0 150.00

DBI
1.0000 .50000

DCBL(MV)
0.0 20.000
DCBL(MV)
0.0 100.00

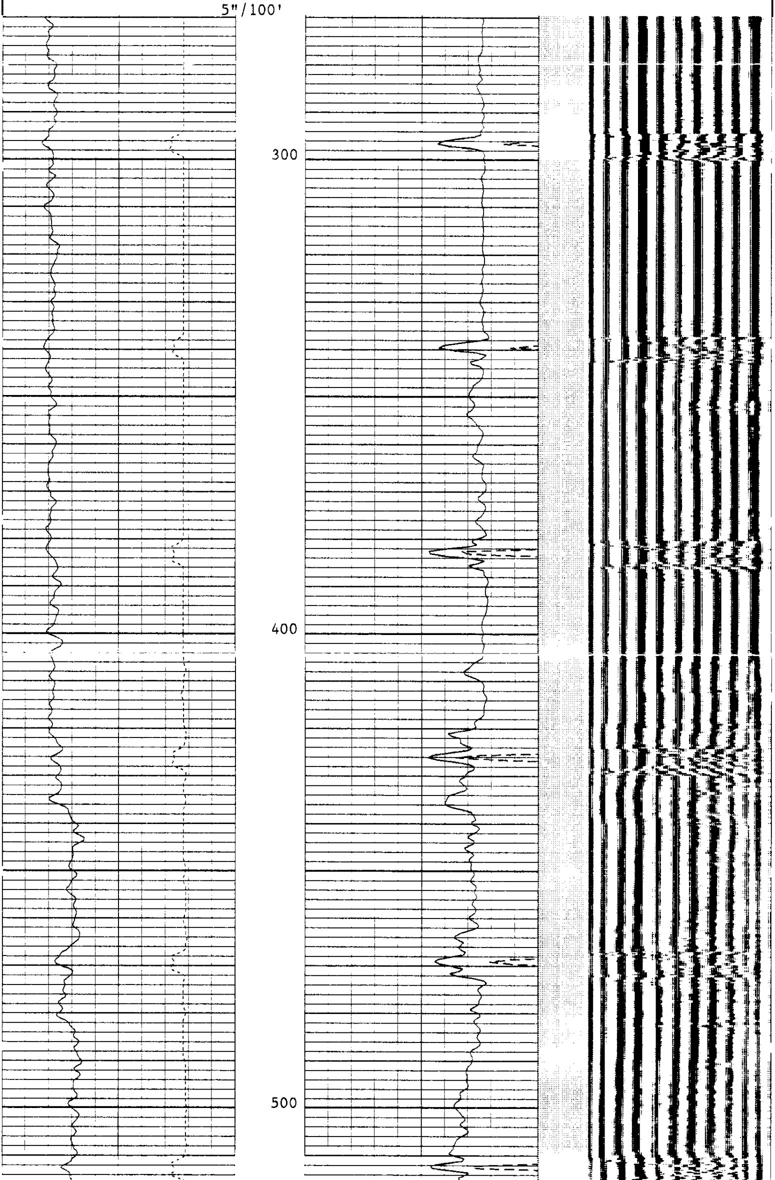
VDL(US)
200.00 1200.0

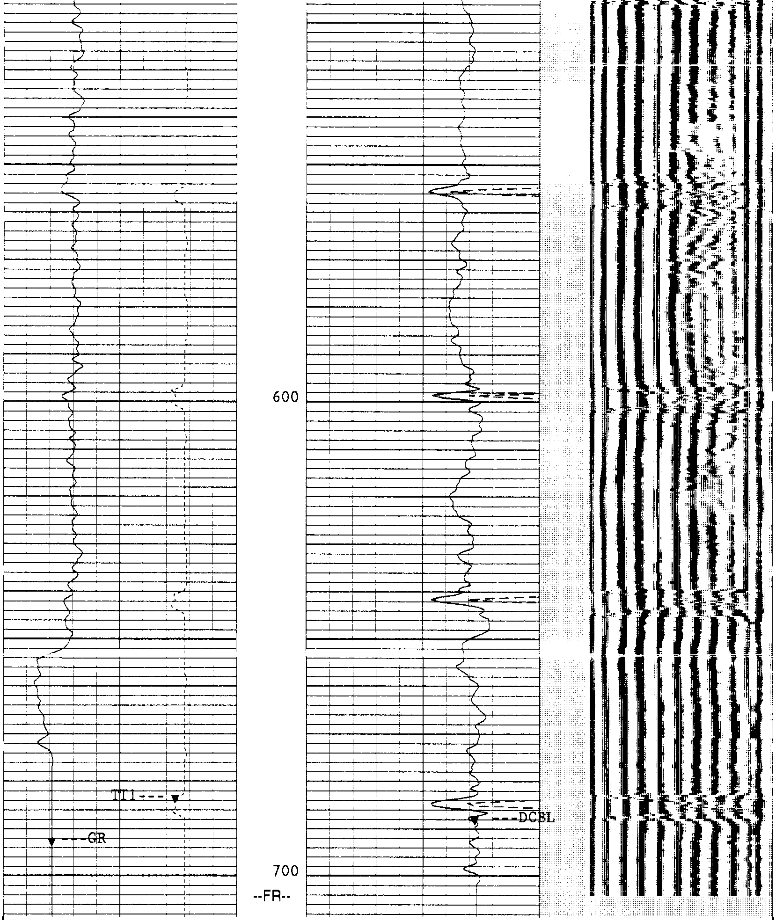
COLLARS

BOND >80%

CP 44.2 FILE 10 19-JAN-1998 23:49

INPUT FILE(S) CREATION DATE
4 19-JAN-1998 22:25





5"/100'

CP 44.2 FILE 10 19-JAN-1998 23:48

INPUT FILE(S) 4
CREATION DATE 19-JAN-1998 22:25

COLLARS		BOND >80%		
TT1(US) 400.00 300.00			DCBL(MV) 0.0 20.000	
GR(GAPI) 0.0 150.00		DBI 1.0000 .50000	DCBL(MV) 0.0 100.00	VDL(US) 200.00 1200.0

SENSOR MEASURE POINT TO TOOL ZERO

DTT 3.8 FEET
CBTE 29.6 FEET

SGTL 36.1 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SMB	ALLO		VDLR	2IN	
DWF	VDL		SMSG	149	US
NMSG	250	US	FMSG	310	US
VMSG	388	US	AGC	ALLO	
GAI	600.000		SLC	DB	
CSRL	DISA		DTMD	185.000	US/F
FTTM	307.403	US	NTTM	250.403	US
TTFF	15.0000	US	NFPI	63.0000	MV
SFPI	75.0000	MV	SALL	2.00000	MV
MATT	15.0000	DB/F	MATS	18.0000	DB/F
PP	NORM		DO	0.0	F
NCJT	GSRY		DWCO	120	
DSIN	10	US	DDEL	0	US
BS	12.2500	IN	BHS	CASE	
CSIZ	8.67500	IN			

COMPANY	NORTHWEST NATURAL GAS CO.		
WELL	IW 22DH-22-65		
FIELD	MIST GAS STORAGE		
COUNTY	COLUMBIA	**STATE**	OREGON

SCHL.	**FR**	1980.0 F
SCHL.	**TD**	1990.0 F
DRLR.	**TD**	1995.0 F
Elev:	**KB**	595.7 F
	DF	
	GL	579.7 F

Schlumberger

CEMENT BOND
GAMMA RAY LOG