

Schlumberger  
CEMENT  
EVALUATION  
LOG

COMPANY NORTHWEST NATURAL GAS  
 WELL IW 22H-22-65  
 FIELD MIST GAS STORAGE  
 COUNTY COLUMBIA STATE OREGON  
 CEMENT EVALUATION LOG  
 OTHER SERVICES:

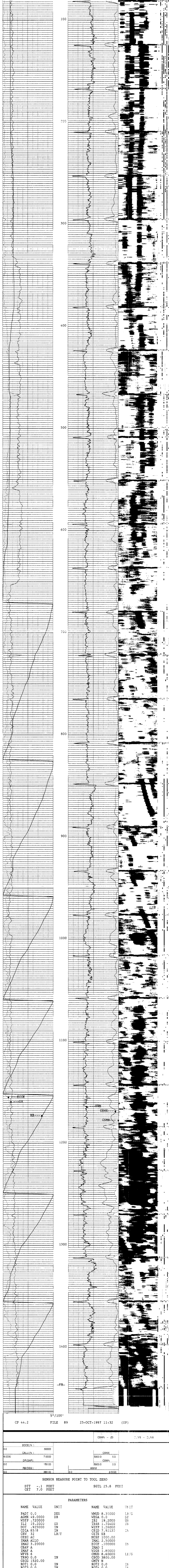
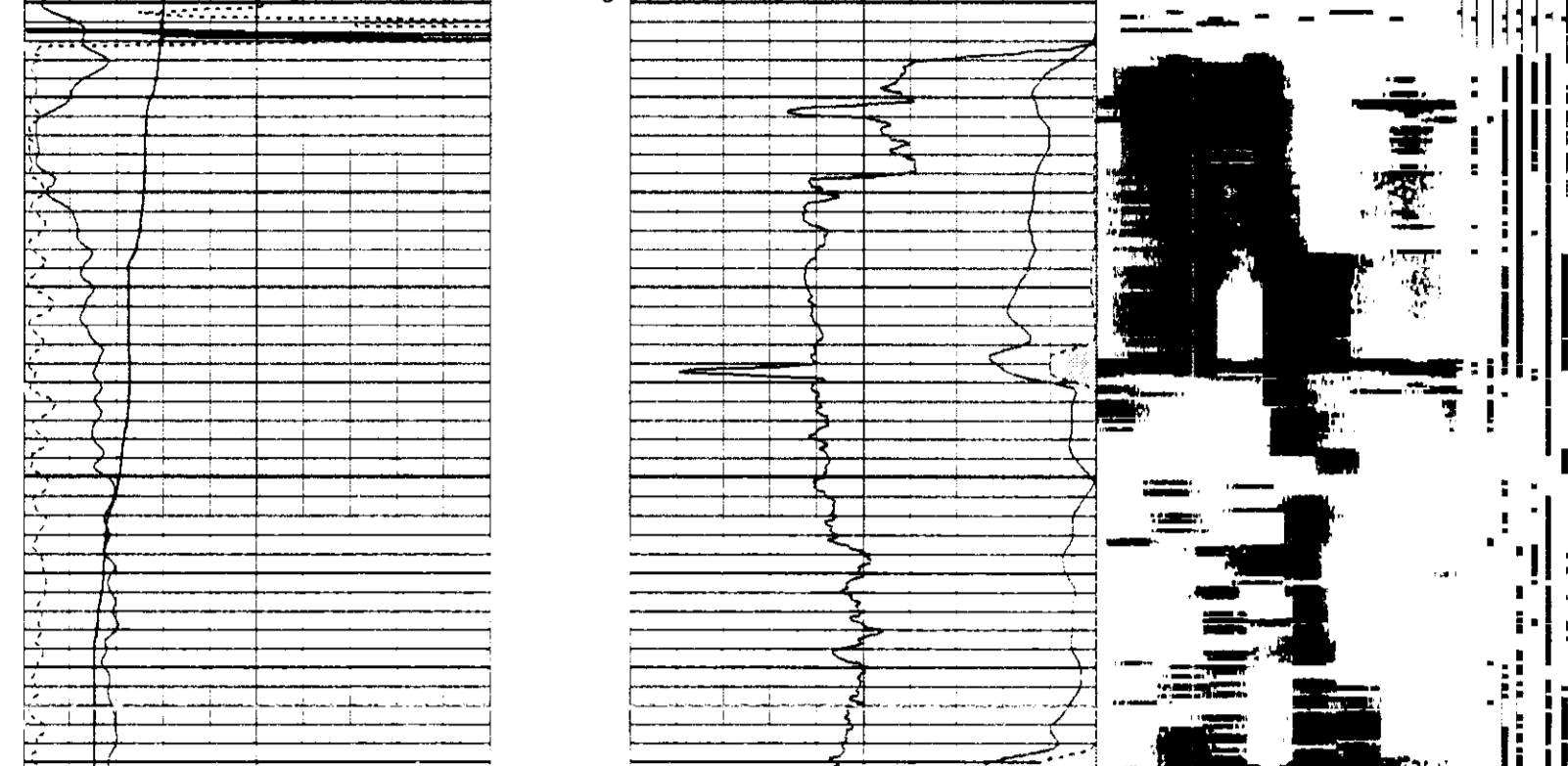
COUNTY: COLUMBIA  
 FIELD: MIST GAS STORAGE  
 WELL: IW 22H-22-65  
 LOCATION: N 22° 01' 37.04" N 103° 03' 15.00" W  
 WELL: 102212-65  
 COMPANY: NORTHWEST NATURAL GAS  
 DATE: 25-OCT-1997  
 TIME: 12:14  
 LOGGERS: DAN LEE  
 SUPERVISOR: MR. WYER, MR. THOMAS  
 WITNESSED BY: BOHENDL RECORD  
 LOGGERS: SEE LOG  
 EQUIPMENT: BARNESFIELD  
 LOGGERS: GREG PERRY  
 WITNESSED BY: MR. WYER, MR. THOMAS  
 BOHENDL RECORD  
 BI SIZE: CASING & TUBING RECORD  
 DEPTH: 13.00F  
 WEIGHT: 48.0000 LBS  
 Casing Top-Driller: 0.0F  
 Casing Top-Logger: 0.0F  
 Casing Shoe-Driller: 332.0F  
 Casing Top: 1720.0F

Date: 25-OCT-1997  
 Time: 12:14  
 Loggers: DAN LEE  
 Supervisor: MR. WYER, MR. THOMAS  
 Witnessed By: BOHENDL RECORD  
 Loggers: SEE LOG  
 Equipment: BARNESFIELD  
 Loggers: GREG PERRY  
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The well name, location and borehole reference data were furnished by the customer.

All interpretations are based on references from electric logs and other measurements and are not guaranteed to be accurate. Schlumberger is not responsible for any errors or omissions in this log. Schlumberger is not responsible for any damage to the well or other equipment caused by the use of this log. Schlumberger is not responsible for any loss of data or equipment caused by the use of this log. Schlumberger is not responsible for any damage to the well or other equipment caused by the use of this log.

Run No.	CNE
Service Order No.	
Logging Speed	1600.0 F/HR
EQUIPMENT DATA	
Tool Number 1	CET
Tool Number 2	SGTL
Tool Number 3	TCG3
Tool Number 4	
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:	
CREW: DAN LEE	



CP 44.2 FILE 89 25-OCT-1997 11:32 (UP)

CSMN -- Z3 DUVS -- D-V8

ECCE (N) 50000  
CALU (N) 70000  
GR (GAP) 150.00  
RB (DEG) 380.00

CSMX 5000.00  
CSMN 5000.00  
WWM 5000.00

SENSOR MEASURE POINT TO TOOL ZERO  
 DTT -1.1 FEET  
 CET 7.0 FEET  
 SGTL 25.8 FEET

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PADI	0.0	DEG	WMUD	8.30000	LB/G
AGMX	49.0000	DB	WEGA	0.0	DEG
W3FP	19.2000	US	W2C	1.70400	IN
IL	1.92500	IN	W2FP	1.24000	IN
DOT	.925000	IN	CSID	7.92130	IN
CDIA	85/8	IN	CETS	SB	
CSW	32	LB/F	MCSF	1000.00	
CEEC	AC		IMAL	2.50000	IN
IMAR	ALLO		ECOF	1.00000	IN
IMAU	3.20000		TYAO	I	
CSAV	A		W2CS	1.80000	LE/G
IMAF	A		CMUD	8.60000	LE/G
WFSV	6		CSCO	3800.00	
TR90	0.0	IN	CMTY	N	
CSCG	1520.00		ROT2	0.0	IN
ROT1	0.0	IN	ROT4	0.0	IN
ROT3	0.0	IN	ROT6	0.0	IN
ROT5	0.0	IN	ROT8	0.0	IN
ROT7	0.0	IN	W2CS	1.00000	
LA09	-65.0000	DB	IDSJ	CSID	
W3C9	1.00000		FCD	0.0	IN
NCJT	GSRV		BHS	CASE	
BS	12.2500	IN			
CSIZ	8.67500	IN			

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