ATLAS WIRELINE SERVICES

COMPENSATED DENSILOG® COMPENSATED NEUTRON GAMMA RAY

FILE NO.
API NO.
2" = 100'

COMPANY	OREGON NATURAL GAS CORP.
WELL	43B - 10
FIELD	MIST
COUNTY	COLUMBIA STATE OR.

LOCATION: 2035' N. & 802' W. OF SE CORNER.
SEC 10 TWP 6N RGE 5W

OTHER SERVICES: DIFL, BHC/AL, DIP, PRODIP

PERMANENT DATUM GL ELEV. 728.11'
LOGGING MEASURED FROM KB 11.4 FT. ABOVE P.D.
DRILLING MEASURED FROM KB

ELEVATIONS: KB 739.51' DF GL 728.11

DATE	9-18-88	
RUN	1	
SERVICE ORDER	159024	
DEPTH-DRILLER	2616'	
DEPTH-LOGGER	2606'	
BOTTOM LOGGED INTERVAL	2604'	
TOP LOGGED INTERVAL	506'	
CASING - DRILLER	8 5/8"	@ 508'
CASING - LOGGER	506'	
BIT SIZE	7 7/8"	
TYPE FLUID IN HOLE	GEL/DRISPAC	
DENSITY / VISCOSITY	10.1	42
PH / FLUID LOSS	8.95	5.8
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	1.50	@ 80 DEG. F
RMF AT MEAS. TEMP.	1.15	@ 70 DEG. F
RMC AT MEAS. TEMP.	1.86	@ 70 DEG. F
SOURCE OF RMF / RMC	M	M
RM AT BHT	1.13	@ 107 DEG. F
TIME SINCE CIRCULATION	4 HRS	
MAX. REC. TEMP. DEG. F	107 DEG. F	
EQUIP. NO. / LOC.	6398	BAK.
RECORDED BY	M. HINDS	
WITNESSED BY	MR. THOMAS	

RECEIVED OCT 26 1988 DOGAMI Portland

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

Western Atlas International, A Litton/Dresser Company
ATLAS WIRELINE SERVICES

REMARKS RUN (1)

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	CDL	72541	2212	DE-CENT
1	1	CAL	72541	2212	VARIABLE
1	1	CN	53264	2435	DE-CENT
1	1	GR	73467	1309	DE-CENT

CURVE	DELAY	UNITS
SSD	0,3	FT,IN
LSD	0	FT,IN
CAL	0,0	FT,IN
SSN	9,9	FT,IN
LSN	10,3	FT,IN
GR	16,6	FT,IN
TTEN	0,0	FT,IN
TEN	0,0	FT,IN
SPD	0,0	FT,IN

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2615 TO 505	0.000	
CAL CORR	2615 TO 505	7.875	INCH
CHI SMTH	2615 TO 505	ACTIVE	
M	2615 TO 505	0.000	
MATRIX	2615 TO 505	SANDSTONE	
O.D.	2615 TO 505	5.500	INCH
RHO F	2615 TO 505	0.930	G/CC
RHO M	2615 TO 505	2.650	G/CC
SALINITY	2615 TO 505	0.000	PPK

DISPLAY SCALE CHANGES
*** NONE ***

COMPANY: OREGON NATURAL GAS CORP. RUN: 1
WELL NAME: 43B - 10 TRIP: 1
SERVICE: KC287B FILE: 2 DATE: 09/18/88 TIME: 15:36:37
REVISION: FSYSAL REV GS08 VER+2 MODE: RECORD

PORD(%) 60 — 0
BIT(INCH) 6 — 16 CNC(%) 60 — 0
VOL(CUFT) 0 30 CORR(G/CC) -0.5 — 0.5
GR(API) 0 — 150 DEN(G/CC) 1.65 — 2.65
CAL(INCH) 6 — 16 TEN(LBS) 4900 — -100

PORD(%) 60 — 0
BIT(INCH) 6 — 16 CNC(%) 60 — 0
VOL(CUFT) 0 30 CORR(G/CC) -0.5 — 0.5
GR(API) 0 — 150 DEN(G/CC) 1.65 — 2.65
CAL(INCH) 6 — 16 TEN(LBS) 4900 — -100

CURVE DELAYS

CURVE	DELAY	UNITS
SSD	0,3	FT,IN
LSD	0	FT,IN
CAL	0,0	FT,IN
SSN	9,9	FT,IN
LSN	10,3	FT,IN
GR	16,6	FT,IN
TTEN	0,0	FT,IN
TEN	0,0	FT,IN
SPD	0,0	FT,IN

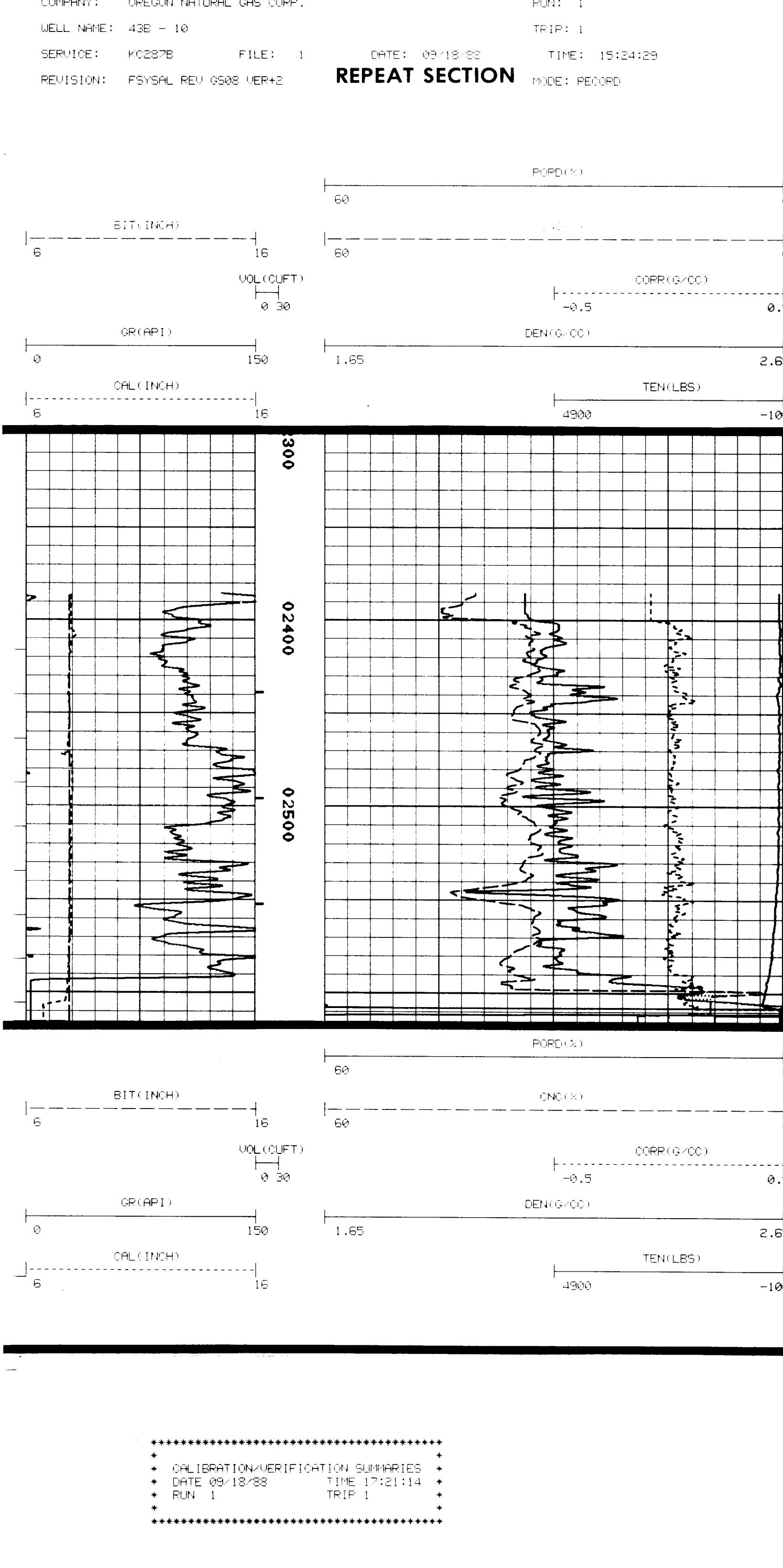
PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2616 TO 2408	0.000	
CAL CORR	2616 TO 2408	7.875	INCH
CHI SMTH	2616 TO 2408	ACTIVE	
M	2616 TO 2408	0.000	
MATRIX	2616 TO 2408	SANDSTONE	
O.D.	2616 TO 2408	5.500	INCH
RHO F	2616 TO 2408	0.980	G/CC
RHO M	2616 TO 2408	2.650	G/CC
SALINITY	2616 TO 2408	0.000	PPK

DISPLAY SCALE CHANGES
*** NONE ***

COMPANY: OREGON NATURAL GAS CORP. RUN: 1
WELL NAME: 43B - 10 TRIP: 1
SERVICE: KC287B FILE: 1 DATE: 09/18/88 TIME: 15:24:29
REVISION: FSYSAL REV GS08 VER+2 **REPEAT SECTION** MODE: RECORD

PORD(%) 60 — 0
BIT(INCH) 6 — 16 CNC(%) 60 — 0
VOL(CUFT) 0 30 CORR(G/CC) -0.5 — 0.5
GR(API) 0 — 150 DEN(G/CC) 1.65 — 2.65
CAL(INCH) 6 — 16 TEN(LBS) 4900 — -100



PORD(%) 60 — 0
BIT(INCH) 6 — 16 CNC(%) 60 — 0
VOL(CUFT) 0 30 CORR(G/CC) -0.5 — 0.5
GR(API) 0 — 150 DEN(G/CC) 1.65 — 2.65
CAL(INCH) 6 — 16 TEN(LBS) 4900 — -100

CALIBRATION/VERIFICATION SUMMARIES
DATE 09/18/88 TIME 17:21:14
RUN 1 TRIP 1

LOG NAME CDL ASSET NO. 72541 UNIT NO. HL 6406
CALIBRATION ENTERED ON 09/18/88 AT 11:27:06 LARGE TOOL
SOURCE NUMBER 845

CURVE	COUNTS/SEC. BLOCK	VALUE	SCALING FACTORS ADD.	MULT.	RATIO MG/AL	ENG. VALUE	UNITS
DATE 08/16/88		CALIBRATION			TIME 13:11:34		
LSD	MG	346.4					
SSD		463.5					
DEN						2.200	G/CC
CORR						0.000	G/CC
LSD	AL	118.3	0.000	1.0000	2.9277		
SSD		298.3	0.000	1.0000	1.5538		
DEN						2.800	G/CC
CORR						0.000	G/CC
LSD	MGRV	320.4					
SSD		503.3					
DEN						2.480	G/CC
CORR						0.235	G/CC
DATE 09/02/88		PRIMARY VERIFICATION			TIME 22:05:27		
LSD	JIG	167.9	0.000	1.0000			
SSD		329.9	0.000	1.0000			
DEN						2.523	G/CC
CORR						-0.085	G/CC
DATE 09/18/88		BEFORE LOG VERIFICATION			TIME 11:32:56		
LSD	JIG	167.5	0.000	1.0000			
SSD		328.6	0.000	1.0000			
DEN						2.520	G/CC
CORR						-0.090	G/CC
DATE 09/18/88		AFTER LOG VERIFICATION			TIME 16:48:31		
LSD	JIG	167.4	0.000	1.0000			
SSD		327.1	0.000	1.0000			
DEN						2.512	G/CC
CORR						-0.099	G/CC

LOG NAME CAL ASSET NO. 72541 UNIT NO. 6398
CALIBRATION ENTERED ON 09/18/88 AT 11:53:10

CURVE	MILLIVOLTS LOW	HIGH	SCALING FACTORS ADD.	MULT.	ENGINEERING VALUES LOW	HIGH	UNITS
DATE 09/18/88		CALIBRATION			TIME 11:53:10		
CAL	2391.2	4060.8	-2.593	0.0263	6.000	12.000	INCH
		PRIMARY VERIFICATION			NOT DONE		
DATE 09/18/88		BEFORE LOG VERIFICATION			TIME 15:15:27		
CAL	2972.2	E	-2.593	0.0263	8.088	E	INCH
DATE 09/18/88		AFTER LOG VERIFICATION			TIME 16:47:25		
CAL	3031.5	E	-2.593	0.0263	8.301	E	INCH

LOG NAME CN ASSET NO. 53264A UNIT NO. 6406
CALIBRATION ENTERED ON 09/18/88 AT 11:27:56 2435
SOURCE NUMBER 517520

CURVE	COUNTS/SEC.	SCALING FACTORS ADD.	MULT.	RATIO LSN/(SSN*4)	ENG. VALUE	UNITS
DATE 08/28/88		CALIBRATION		TIME 19:27:34		
LSN	85.0	0.000	1.0000			
SSN	165.4	0.000	1.0000			
CN				0.1285	24.558	%
DATE 08/28/88		PRIMARY VERIFICATION		TIME 19:38:49		
LSN	82.1	0.000	1.0000			
SSN	122.7	0.000	1.0000			
CN				0.1674	15.374	%
DATE 09/18/88		BEFORE LOG VERIFICATION		TIME 11:38:38		
LSN	82.4	0.000	1.0000			
SSN	123.2	0.000	1.0000			
CN				0.1672	15.399	%
DATE 09/18/88		AFTER LOG VERIFICATION		TIME 16:52:31		
LSN	83.6	0.000	1.0000			
SSN	123.8	0.000	1.0000			
CN				0.1688	15.117	%

LOG NAME GR ASSET NO. 73467D UNIT NO. 6406
CALIBRATION ENTERED ON 09/18/88 AT 11:25:39

CURVE	MILLIVOLTS LOW	HIGH	SCALING FACTORS ADD.	MULT.	ENGINEERING VALUES LOW	HIGH	UNITS
DATE 08/28/88		CALIBRATION			TIME 19:46:18		
GR	3197.6	6839.2	0.000	0.0978	0.000	150.000	API
		PRIMARY VERIFICATION			NOT DONE		
DATE 09/18/88		BEFORE LOG VERIFICATION			TIME 11:46:16		
GR	1733.6	5628.4	0.000	0.0978	71.706	225.643	API
DATE 09/18/88		AFTER LOG VERIFICATION			TIME 17:14:53		
GR	1752.8	5529.0	0.000	0.0972	70.389	221.657	API

CURVE DELAYS