Western Atlas International

ATLAS WIRELINE SERVICES

COMPENSATED DENSILOG® COMPENSATED NEUTRON GAMMA RAY

FILE NO. 3960
API NO. 36-009-00269
2" = 100'

COMPANY NORTHWEST NATURAL GAS COMPANY
WELL I. W. 23d - 3
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION:
2475.11' EAST & 299.39' SOUTH
FROM THE WEST 1/4 CORNER OF:
SEC3 TWP6N RGE5W

OTHER SERVICES
DIFL-SP-CAL
BHC AL-GR-CAL
DIPLOG

PERMANENT DATUM GROUND LEVEL ELEV. 1187.8
LOGGING MEASURED FROM K. B. 11.4 FT. ABOVE P.D.
DRILLING MEASURED FROM K. B.

ELEVATIONS
KB 1199.25'
DF ---
GL 1187.85'

FINAL PRINT

DATE	15-OCT-91		20/OCT/91					
RUN	1		2					
SERVICE ORDER	66915		66917					
DEPTH-DRILLER	2730'		3079'					
DEPTH-LOGGER	2725'		3072'					
BOTTOM LOGGED INTERVAL	2722'		3069'					
TOP LOGGED INTERVAL	684'		2708'					
CASING - DRILLER	13 3/8"	@ 684'	8 5/8"	@ 2715'		@		@
CASING - LOGGER	684'		2708'					
BIT SIZE	12 1/4"		7 7/8"					
TYPE FLUID IN HOLE	GEL/POLYMER		GEL/CACL/HEC 10					
DENSITY / VISCOSITY	9.6+	40	8.6	38				
PH / FLUID LOSS	8.7	5.6	11.5	15.0				
SOURCE OF SAMPLE	FLOWLINE		FLOWLINE					
RM AT MEAS. TEMP.	2.72	@ 79 F	.297	@ 72F		@		@
RMF AT MEAS. TEMP.	2.97	@ 79 F	.286	@ 72F		@		@
RMC AT MEAS. TEMP.	2.29	@ 79 F	.315	@ 72F		@		@
SOURCE OF RMF / RMC	MEASURED	MEASURED	MEASURED	MEASURED				
RM AT BHT	2.13	@ 101 F	.212	@ 101F		@		@
TIME SINCE CIRCULATION	6 HRS.		5 1/2 HRS.					
MAX. REC. TEMP. DEG. F	102 F		101F					
EQUIP. NO. / LOC.	HL 6399	BAKRSFLD	HL 6399	BAKRSFLD				
RECORDED BY	TORGERSON		TORGENSON					
WITNESSED BY	CLAYTON ROTH		CLAYTON ROTH					

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.

REMARKS RUN (1)

TAYLOR RIG NO. 4
BHT 102 F & 102 F
VOLUME COMPUTED FOR 8 5/8" CASING ≈960 FT3

REMARKS RUN (2)

TAYLOR RIG NO. 4
BHT 101 F & 101 F
TOTAL BOREHOLE VOLUME RECORDED
NOTE: PULLED WEIGHT WHEN CALIPER ARM ENTERED CASING

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	CDL	74178	2227XA	DECENT.
1	1	CAL	74178	2227XA	DECENT.
1	1	CN	53264	2435XA	DECENT.
1	1	GR	78607	1309XA	DECENT.
1	1	TEMP			
1	1	PCM	73007	3506XA	DECENT.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
2	1	CDL	74178	2227XA	DECENT.
2	1	CAL	74178	2227XA	DECENT.
2	1	CN	53264	2435XA	DECENT.
2	1	GR	78607	1309XA	DECENT.
2	1	TEMP			
2	1	PCM	73007	3506XA	DECENT.

2" = 100'

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                                   FILE:   3


          CURVE DELAY REPORT
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                                   PHYS.
                          CURVE    DELAY     UNITS
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                          BSD        0.3     FT.IN
                          LSD          0     FT.IN
                          CAL        0.3     FT.IN
                          SSN       10.3     FT.IN
                          LSN       10.9     FT.IN
                          GR        16.6     FT.IN
                          TEMP         0     FT.IN
                          DTEM         0     FT.IN


          PARAMETERS
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                    NAME       DEPTH INTERVAL     VALUE      UNITS
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A              2728 TO   656        1.000
CAL COR        2728 TO   656   CAL
CASING CNC     2728 TO   656   NOT ACTIVE
CHISM CN       2728 TO   656   NOT ACTIVE
CHISM DEN      2728 TO   656   NOT ACTIVE
M              2728 TO   656        2.000
MATRIX         2728 TO   656   SANDSTONE
O.D.           2728 TO   656        8.625  INCH
RHO F          2728 TO   656        0.980  G/CC
RHO M          2728 TO   656        2.650  G/CC
SALINITY       2728 TO   656        0.000  PPK
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DISPLAY SCALE CHANGES
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                         *** NONE ***

COMPANY:    NORTHWEST NATURAL GAS COMPANY                 RUN:  1

WELL NAME:  I. W. 233 - 3                                 TRIP: 1

SERVICE:    BH013A          FILE:   3       DATE:  10 15 81   TIME: 04:24:03

REVISION:   FSYS256 REV:J002 VER:2.0                      MODE: RECORD
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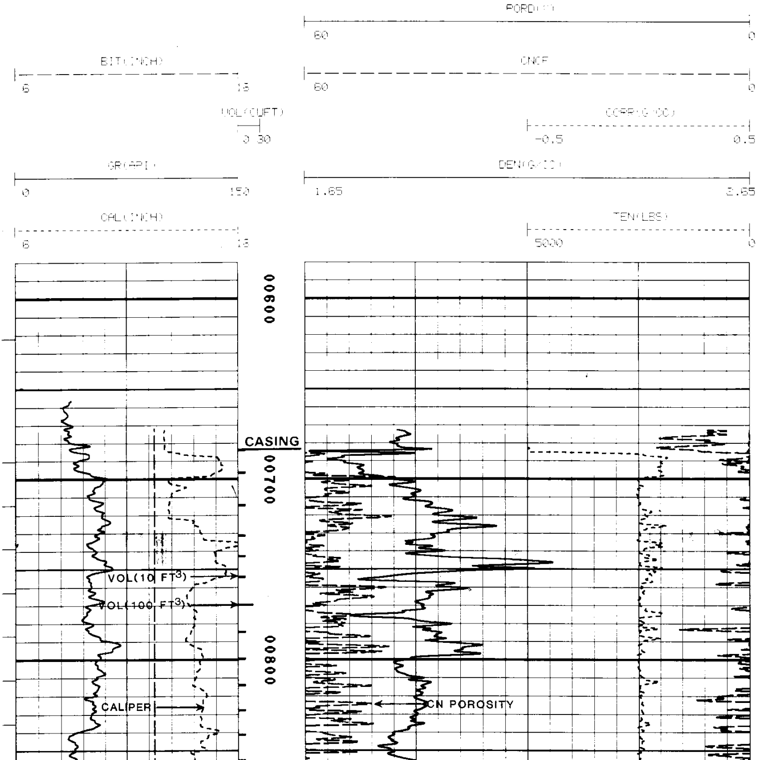

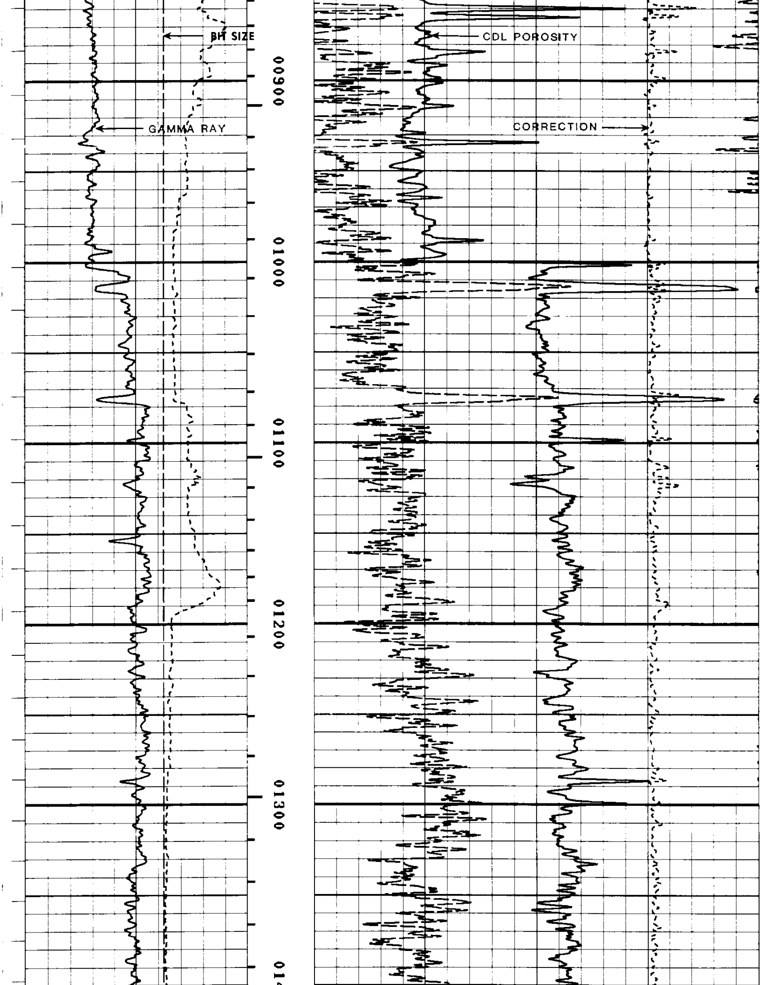

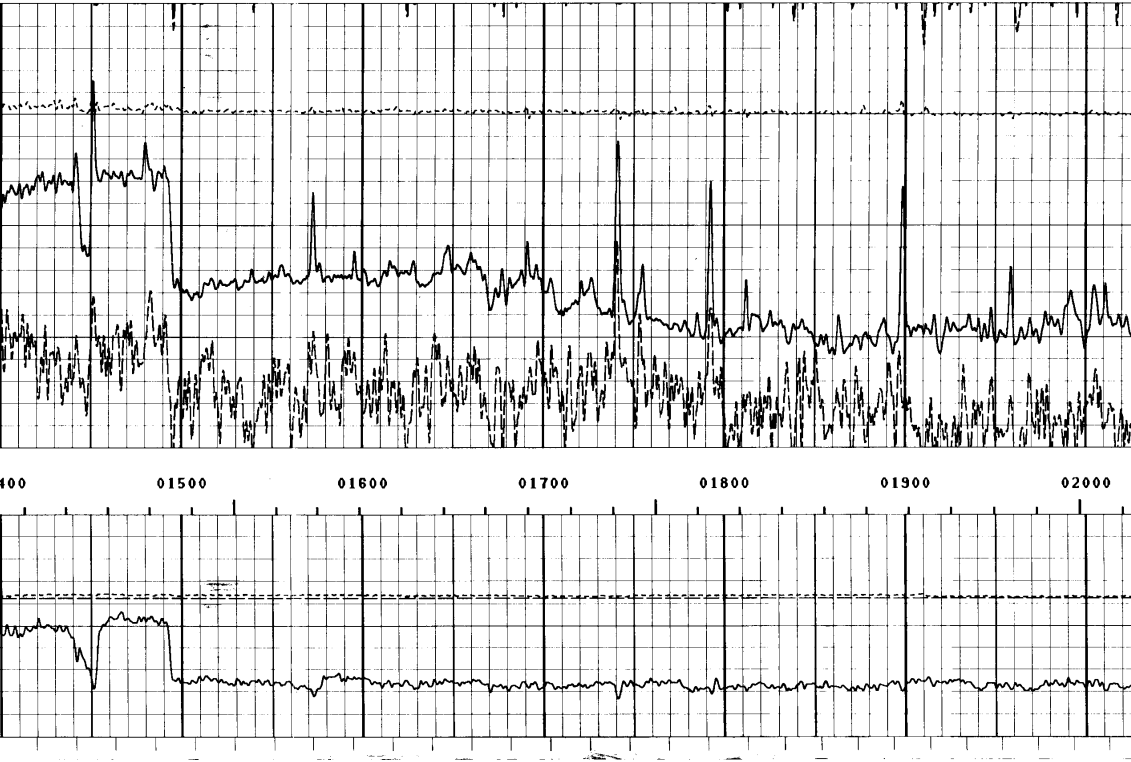

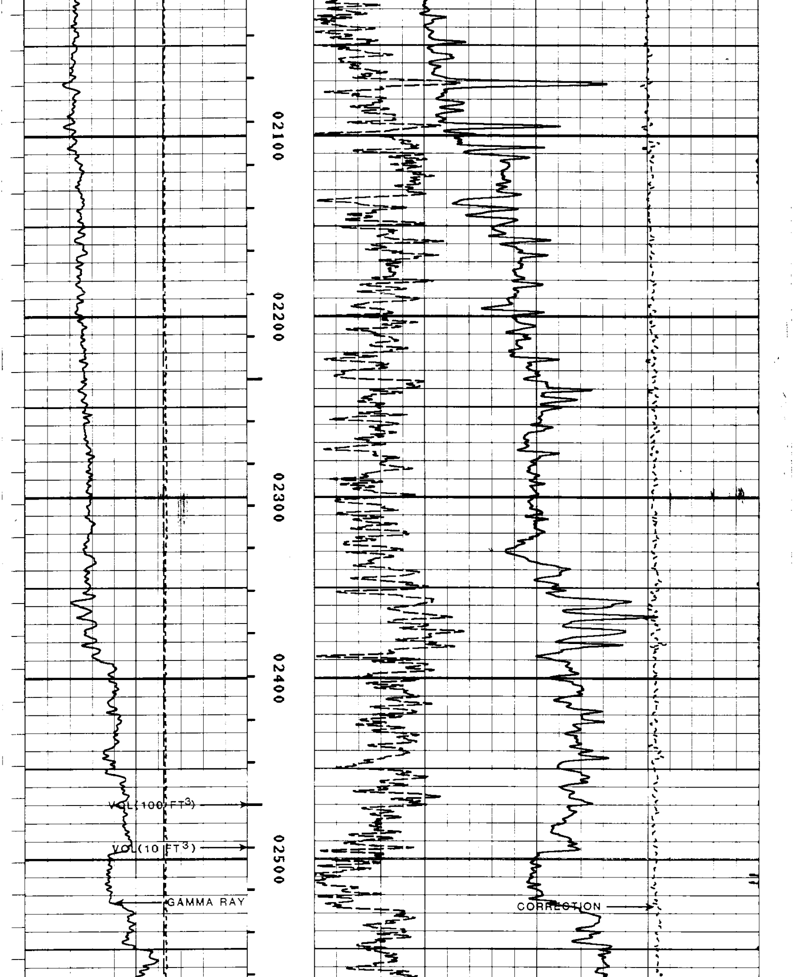

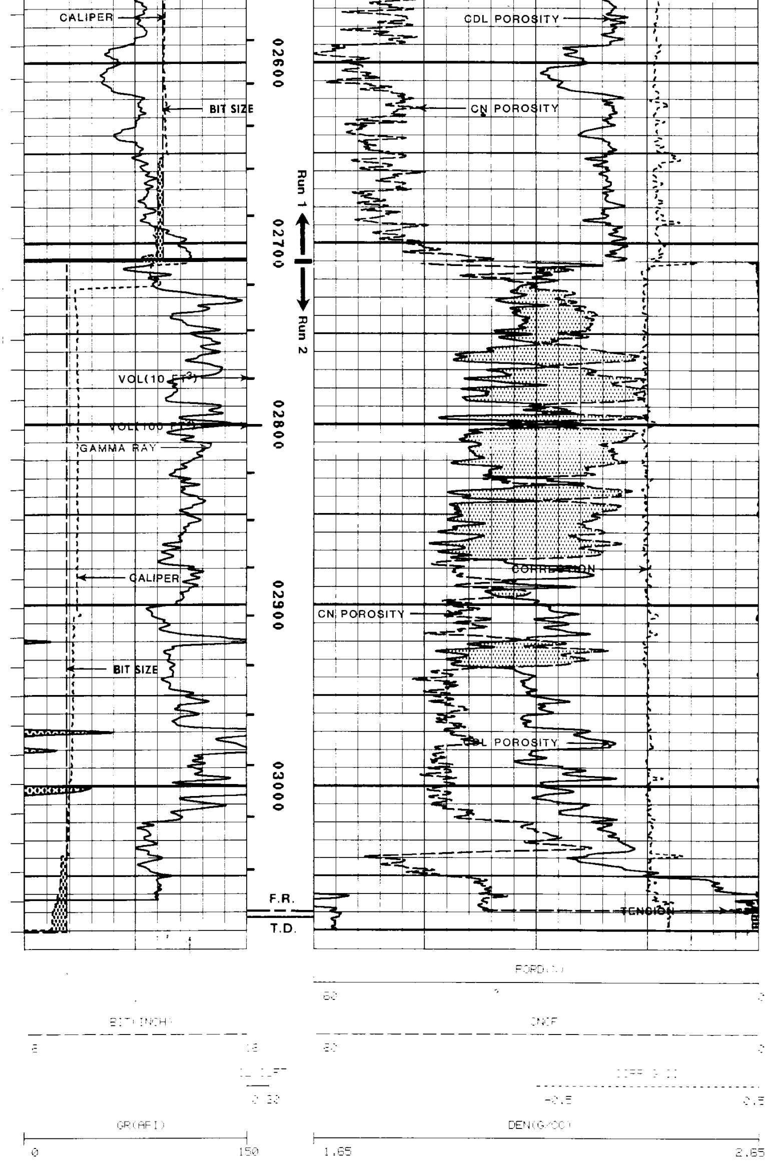

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            CAL(INCH)                                                                                  TEN(LBS)
 |-----------------------------|                                                    |------------------------------|
 6                            16                                                    5000                           0

                                                 FILE:   3

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