Western Atlas International

ATLAS WIRELINE SERVICES

COMPENSATED DENSILOG® COMPENSATED NEUTRON

GAMMA RAY

FILE NO.

API NO.

100

COMPANY	NORTHWEST NATURAL GAS ~~OREGON NATURAL GAS DEVELOPMENT CORP.~~
WELL	IW33AC-3
FIELD	MIST
COUNTY	COLUMBIA STATE OR.

LOCATION:
1469.94' N & 1706.49' W
FROM THE SW CORNER OF:

SEC3 TWP6N RGE 5W

OTHER SERVICES
DIFL/AC/GR
DIPLOG

PERMANENT DATUM GL ELEV. 1075.1
LOGGING MEASURED FROM KB 11.5 FT. ABOVE P.D.
DRILLING MEASURED FROM KB

ELEVATIONS
KB 1086.6'
DF
GL 1075.1'

DATE	12 03 90				
RUN	2				
SERVICE ORDER	65505				
DEPTH-DRILLER	2891'				
DEPTH LOGGER	2892'				
BOTTOM LOGGED INTERVAL	2890'				
TOP LOGGED INTERVAL	2603'				
CASING - DRILLER	8 5/8"	@ 2621'	@	@	@
CASING - LOGGER	2603'				
BIT SIZE	7 7/8"				
TYPE FLUID IN HOLE	POLYMER				
DENSITY / VISCOSITY	8.9	37			
PH / FLUID LOSS	9.0	11.2			
SOURCE OF SAMPLE	FLOWLINE				
RM AT MEAS. TEMP.	.5	@ 50 DEG. F	@	@	@
RMF AT MEAS. TEMP.	.4	@ 50 DEG. F	@	@	@
RMC AT MEAS. TEMP.	.7	@ 50 DEG. F	@	@	@
SOURCE OF RMF / RMC	M	M			
RM AT BHT	.23	@ 106 DEG. F	@	@	@
TIME SINCE CIRCULATION	5 HRS				
MAX. REC. TEMP. DEG. F	106 DEG. F				
EQUIP. NO. / LOC.	6399	BAKS.			
RECORDED BY	M. HINDS				
WITNESSED BY	MR. ROTH/THOMAS				

FINAL PRINT

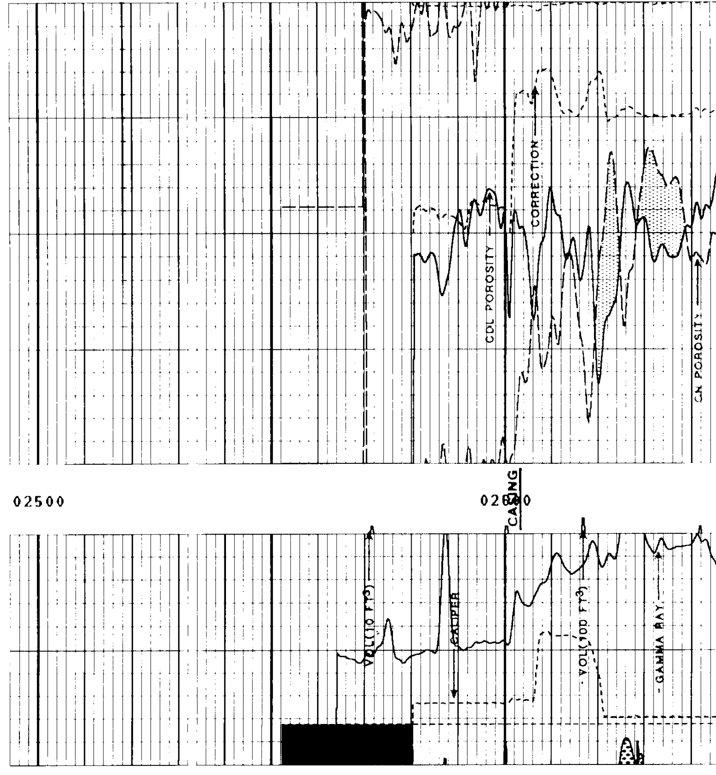
FOLD HERE

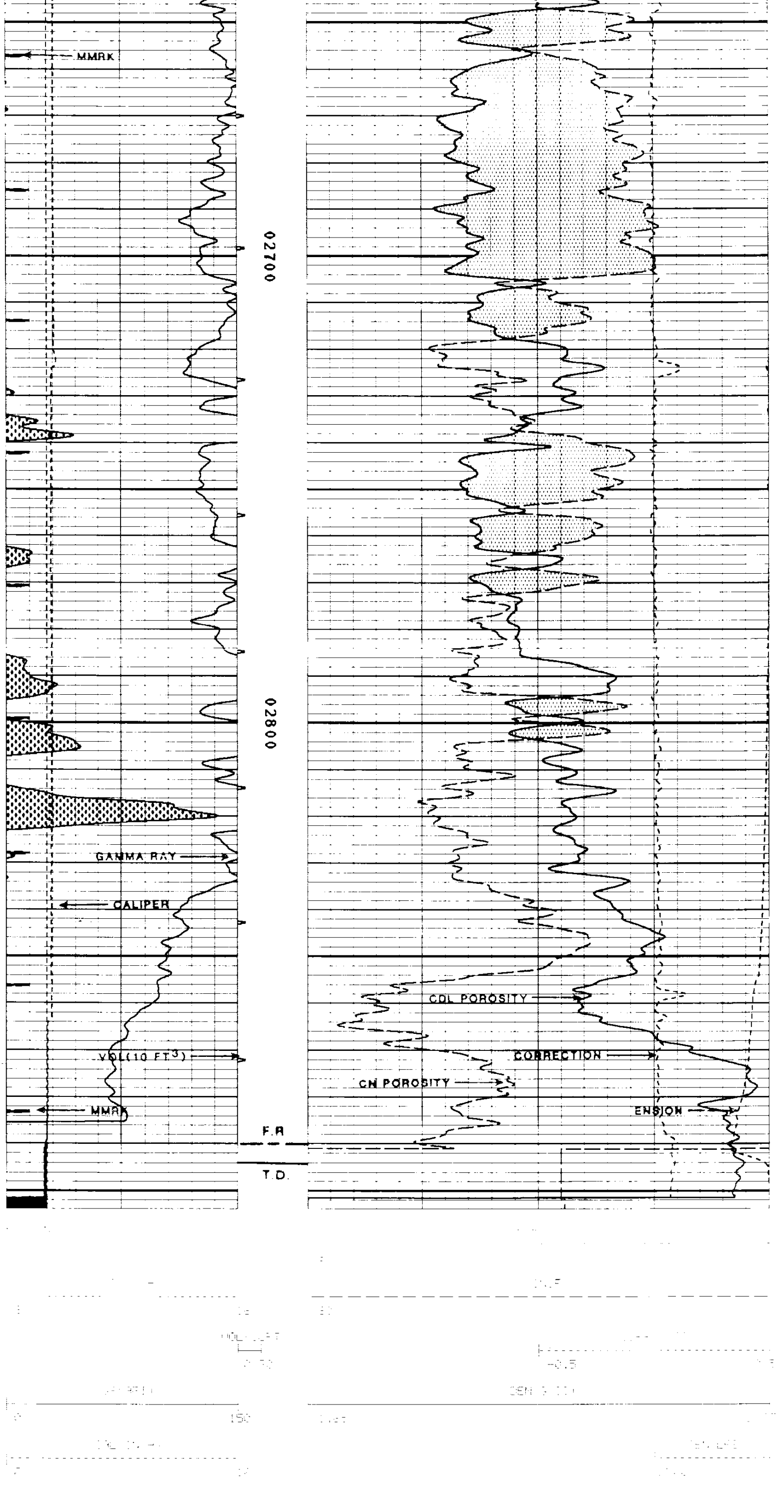
IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL 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 (2)

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
2	2	CDL	57797	2227XA	DE-CENT
2	2	CAL	57797	2227XA	1/ARM
2	2	CN	52364	2435XA	DE-CENT
2	2	GR	60484	1309XA	DE-CENT
2	2	TEMP			
2	2	PCM	73003	3506XA	DE-CENT





FILE: 3

REPEAT SECTION

FILE: 1

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2188 TO 2564	1.000	
CAL TIP	2188 TO 2564	CAL	
CASING CN.	2188 TO 2564	NOT ACTIVE	
CHISM CN	2188 TO 2564	NOT ACTIVE	
CHISM DEN.	2188 TO 2564	NOT ACTIVE	
M	2188 TO 2564	2.000	
MATRI	2188 TO 2564	SANDSTONE	
O.D.	2188 TO 2564	0.000	INCH
RHO F	2188 TO 2564	0.000	G/CC
RHO M	2188 TO 2564	2.650	G/CC
SALINITY	2188 TO 2564	0.000	PPK

DISPLAY SCALE CHANGES

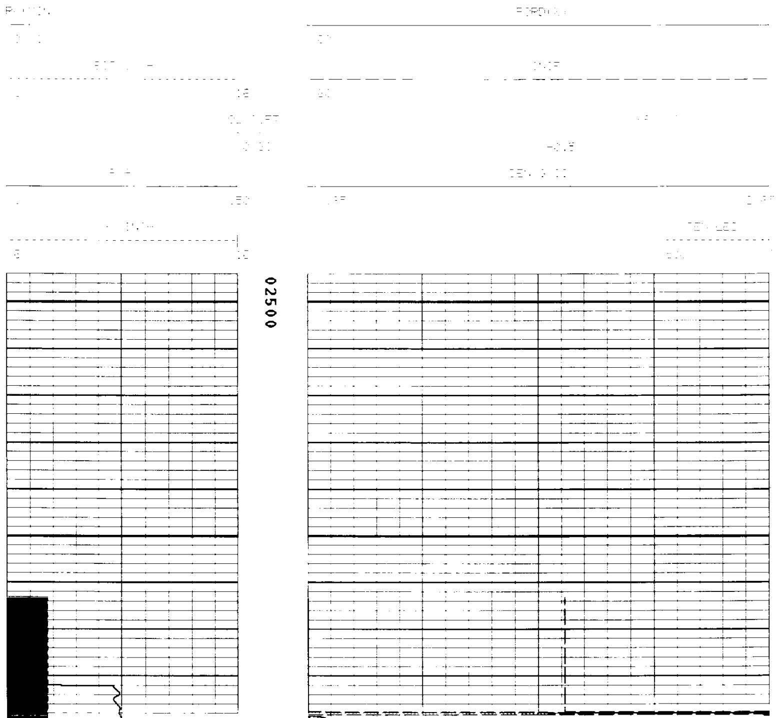
*** NONE ***

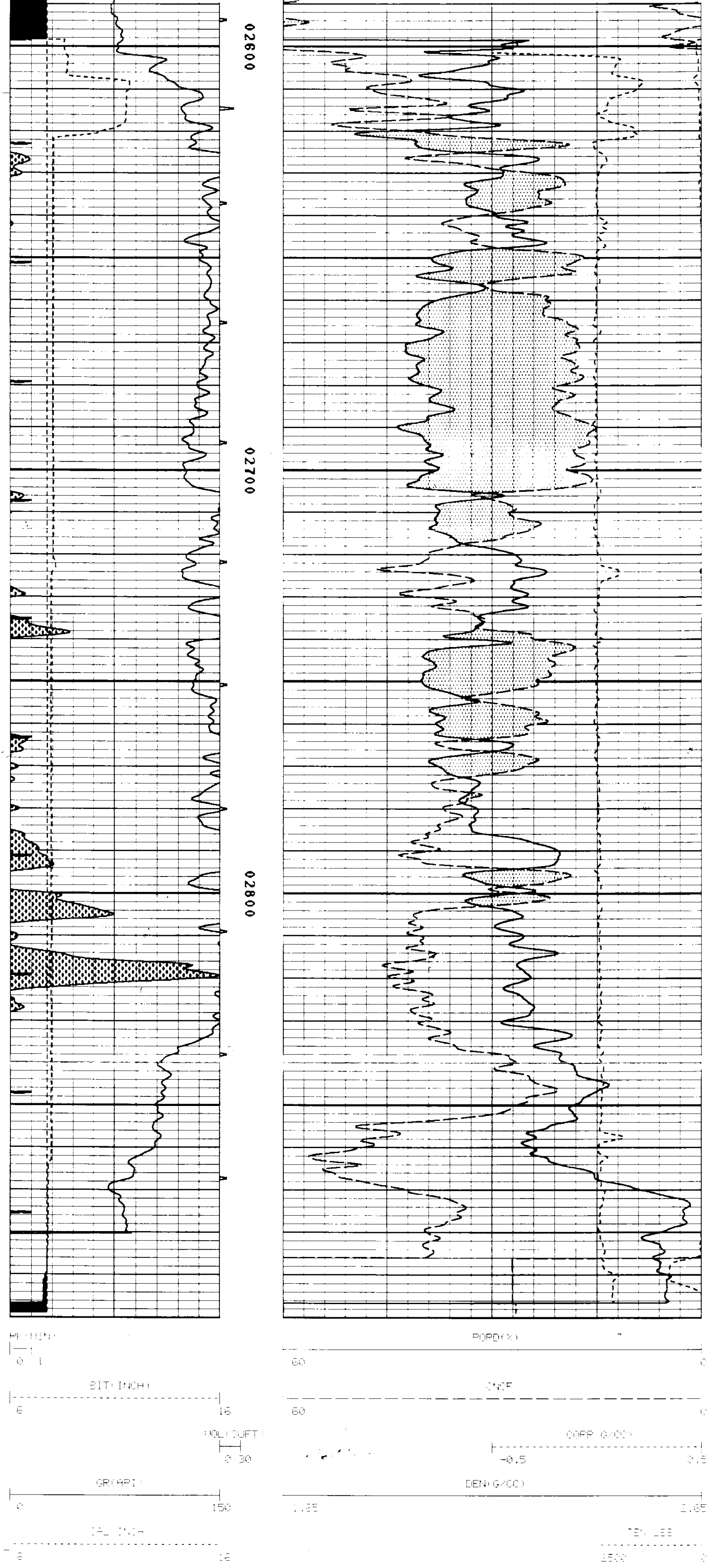
COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 2

WELL NAME: IW 33A1-3 TRIP: 2

SERVICE: N27017 FILE: 1 DATE: 12/03/90 TIME: 15:24:30

REVISION: FI-3256 REV:G002 VER:2.0 MODE: RECOMPUTE PLAYBACK





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*************************************
*  [illegible]                      *
*  [illegible]                      *
*************************************

   [illegible] NAME [illegible]        [illegible]        [illegible] 8064A=8020
  [illegible]RATION ENTERED [illegible]                     DUAL SCINT.
           [illegible]

 [illegible]  COUNTS SEC.   [illegible]        RATIO   ENG. VALUE  UNITS
               VALUE
       ----------    ---------------   ------  ---------  -----

     DATE [illegible]        [illegible]           TIME 17:48:37

                       [illegible]
                       [illegible]
                                                        1.728  G/CC
                                                       -0.007  G/CC
                                                        1.835  G/CC
                                                       -0.041  G/CC
                        [illegible]
                        97.4   [illegible]
                                                        2.697  G/CC
                                                       -0.006  G/CC
                                                        2.682  G/CC
                                                       -0.039  G/CC

                                                        2.581  G/CC
                                                        0.138  G/CC
          RIGH   [illegible]

                                                        1.731  G/CC
                                                       -0.324  G/CC

     DATE 12 03 80     [illegible] VERIFICATION.        TIME 08:43:18

                                                        2.137  G/CC
                                                        0.052  G/CC

     DATE 12 03 80     BEFORE      CALIBRATION.       TIME 08:47:05

                                                        [illegible]
                                                        [illegible]

     DATE 12 03 80     [illegible] VERIFICATION.      TIME 18:33:37

                     128.2
                     168.1
                                                        2.201  G/CC
                                                        0.062  G/CC


       [illegible] NAME CAL      [illegible]      UNIT NO. 6399
    [illegible]RATION ENTERED ON 12 03 80 AT 07:38:02

 [illegible]   MILLIVOLTS        [illegible] FACTORS    ENGINEERING VALUES   UNITS
              LOW    HIGH    [illegible]              LOW          HIGH
 ----  ---------------     -------------  ------------------------  -----

     DATE [illegible]              CALIBRATION.            TIME 08:18:42

   [illegible]  4000.0   [illegible]   [illegible]        8.000       12.000 INCH

                     PRIMARY    VERIFICATION.               NOT DONE

     DATE [illegible]   [illegible] VERIFICATION.   TIME [illegible]

          8    [illegible]    [illegible]    [illegible]    8         [illegible] INCH

     DATE [illegible] 80   AFTER LOG  [illegible]      TIME [illegible]

          8    [illegible]    -3.827    [illegible]     8          7.833 INCH


     [illegible] NAME CN      [illegible]  58364   UNIT NO. 8064A=8020
  [illegible]IBRATION ENTERED ON [illegible] AT [illegible]             2435
                   SOURCE NUMBER  [illegible]

 [illegible]   COUNTS SEC.    SCALING FACTORS    [illegible]     ENG. VALUE  UNITS
 ----   ----------    -------  -------  --------    ---------   -----

     DATE 11 21 80            CALIBRATION.          TIME 15:41:07

               76.8
              153.0
                                                [illegible]        20.733

     DATE 11 21 80     PRIMARY     VERIFICATION.      TIME 16:03:24

               91.4
              144.9
                                                [illegible]        16.103

     DATE 12 03 80     BEFORE LOG  VERIFICATION.      TIME 00:18:29

               [illegible]
               [illegible]
                                                [illegible]        18.151
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DATE 12 03 80    AFTER [illegible] CALIBRATION.    TIME 16:30:36

            86.9          0.000    1.0000
           141.6          0.000    [illegible]
                                              0.1534       17.054


   [illegible] NAME OF      AFFECTING [illegible]      [illegible]    RATIO [illegible]


      LIMITS SET.       [illegible]               ENGINEERING VALUES   UNIT
      LOW    HIGH    AT                                LOW           HIGH
    ------------- -------- ----               ------------------------ -----

DATE 11 21 80               CALIBRATION                 TIME 11:42:18

      [illegible]   000.0   [illegible]   [illegible]     0.000     150.000 API

                    [illegible]   CALIBRATION.               NOT DONE

DATE 12 03 80   [illegible] CALIBRATION.     TIME 03:15:17

      [illegible]   [illegible]   [illegible]   [illegible]   [illegible]   186.703 API

DATE 12 03 80      [illegible] CALIBRATION.      TIME 16:27:13

      71.4   [illegible]   [illegible]   [illegible]   [illegible]   231.637 API
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