FORM 925322 REV (8880)

Dresser Atlas

DRESSER

Compensated Densilog®
Compensated Neutron®
Gamma Ray

FILE NO.

API NO.

2" = 100'

COMPANY ORFGON NATURAL GAS CORPORATION

WELL OM 41A 10

FIELD MIST

COUNTY COLUMBIA STATE OREGON

LOCATION 1069' S. & 335' W. FR. THE N.E. CORNER OF:

SEC 10 TWP 6N RGE 5W

Other Services
DIFL
BHC/AL
DIP

Permanent Datum GL Elev 899.9'

Log Measured from KB 11.5 Ft Above Permanent Datum

Drilling Measured from KB

Elev.: KB 911.4'
DF —
GL 899.9'

Confidential

Date	12 16 86			
Run No.	ONE			
Service Order	22801			
Depth—Driller	3067'			
Depth—Logger	3066'			
Bottom Logged Interval	3064'			
Top Logged Interval	418'			
Casing—Driller	8 5/8" @ 422'	@	@	@
Casing—Logger	418'			
Bit Size	7 7/8"			
Type Fluid in Hole	GEL/LIGN.			
Density and Viscosity	10 | 48	|	|	|
pH and Fluid Loss	9.0 | 5.8 cc	| cc	| cc	| cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	2.15 @ 70 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	3.05 @ 70 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp	1.67 @ 70 °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M | M	|	|	|
Rm @ BHT	1.5 @ LESS THAN 100 °F		@ °F	@ °F
Time Since Circ.	6 HRS.			
Max. Rec. Temp. Deg. F	LESS THAN 100 °F	°F	°F	°F
Equip. No. and Location	6406 | SAC.	|	|	|
Recorded By	M. HINDS			
Witnessed By	MR. THOMAS			

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 MEASURMENTS, 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)

EQUIPMENT DATA

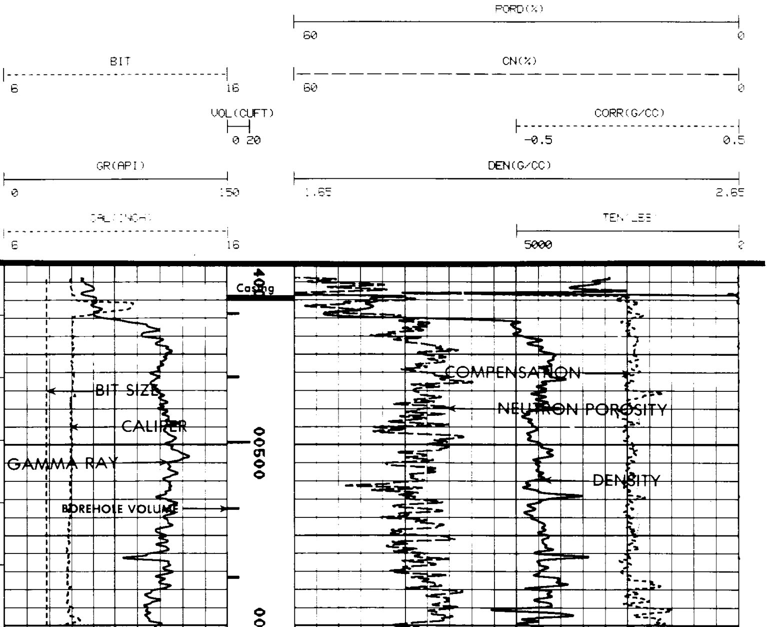
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	CDL	42452	2212	DE-CENT
1	1	CAL	42452	2212	VARIABLE
1	1	CN	73532	2420	DE-CENT
1	1	GR	72564	1309	DE-CENT

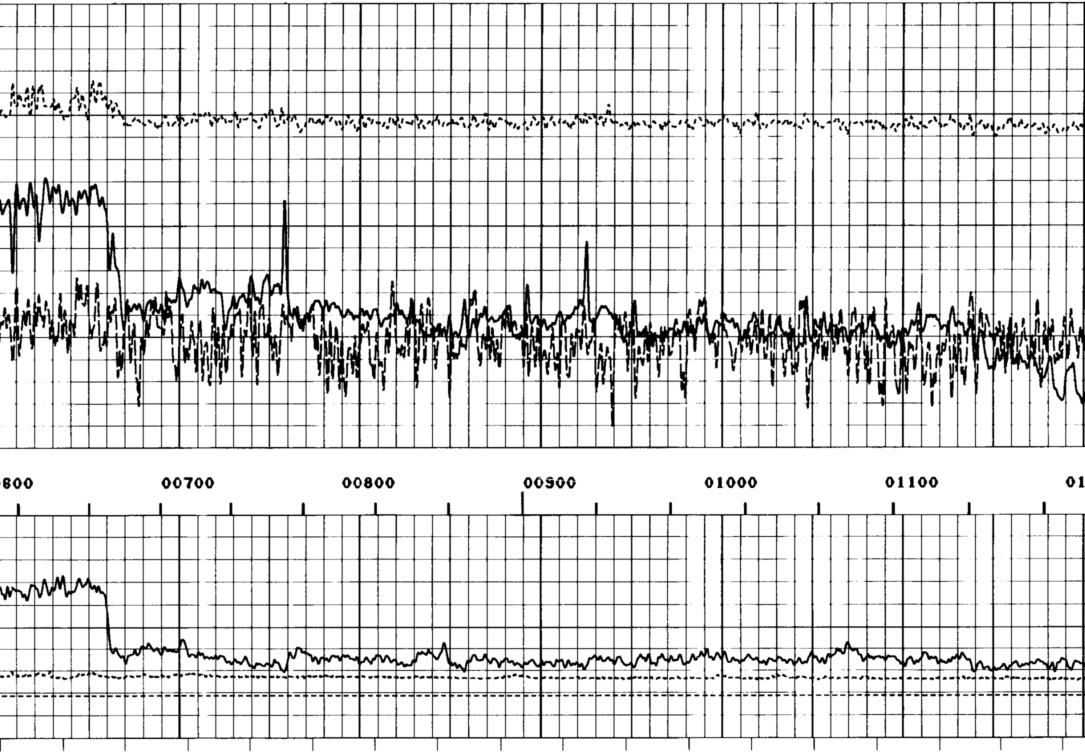
COMPANY: OREGON NATURAL GAS CORR. RUN: 1

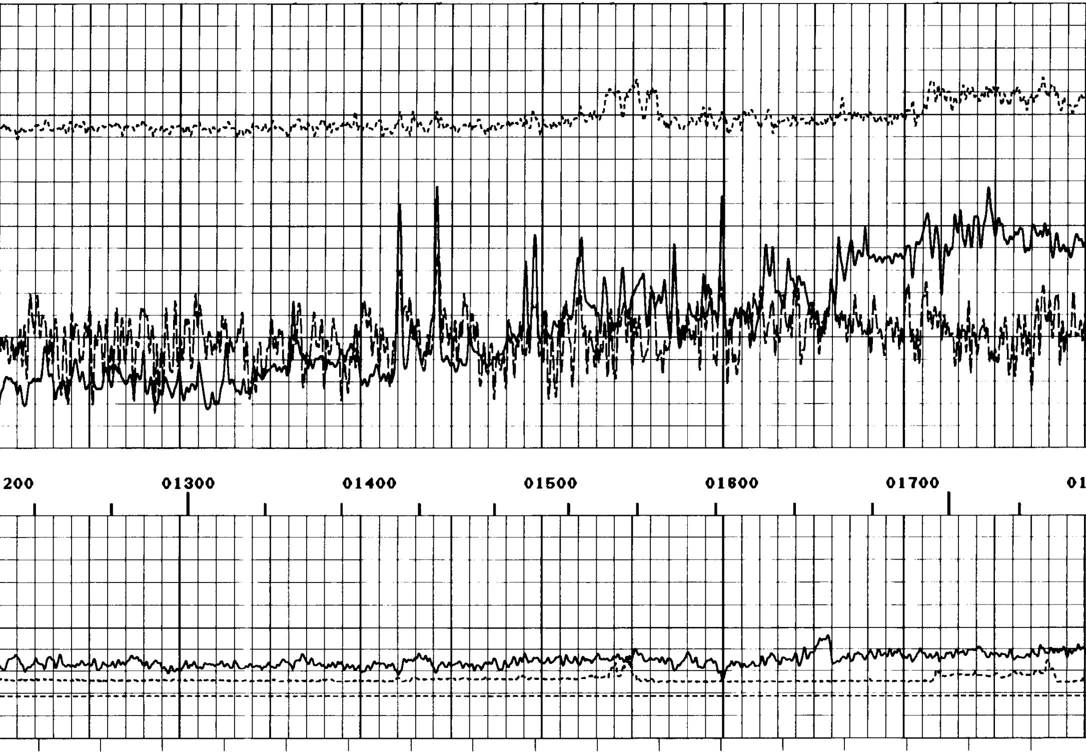
WELL NAME: OM 41A-10 TRIP: 1

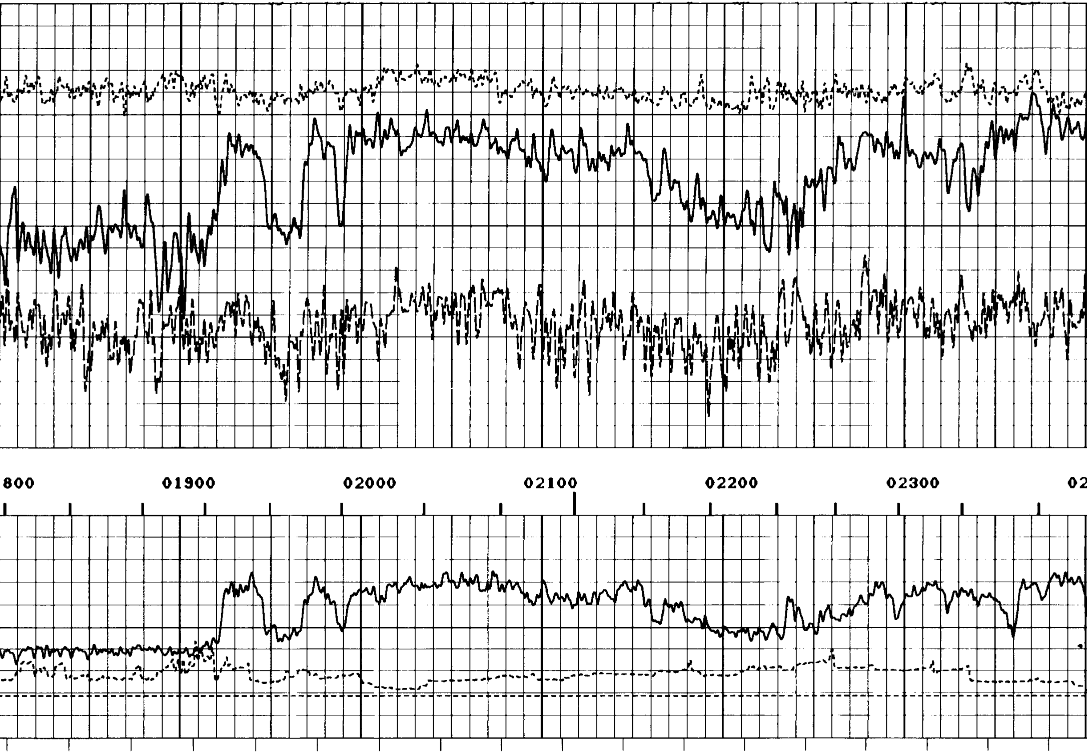
SERVICE: KC227F FILE: 2 DATE: 12/16/86 TIME: 06:48:58

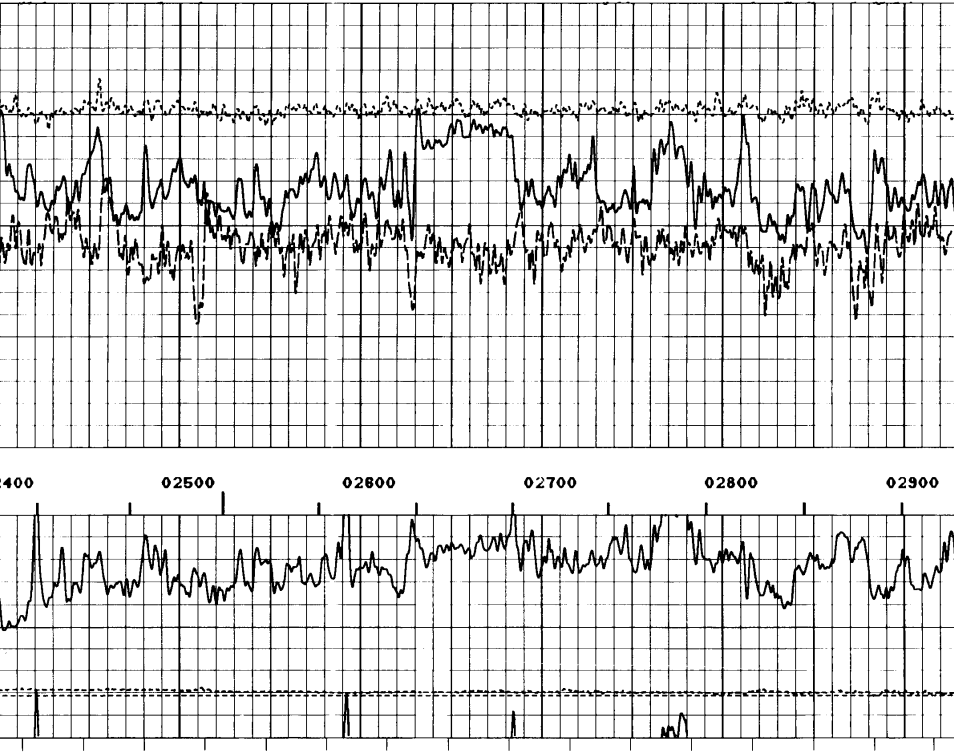
REVISION: FSYSAL REV D007 VER 7 MODE: RECORD

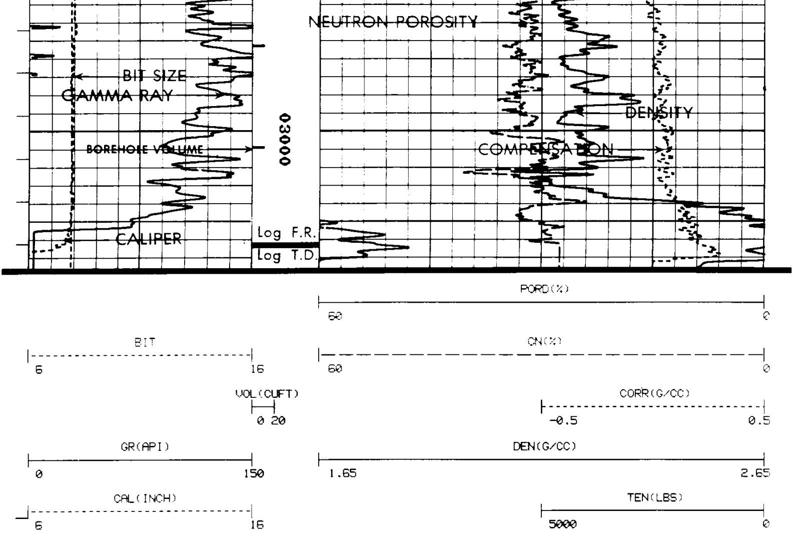












```
**************************************
*                                    *
*  CALIBRATION/VERIFICATION SUMMARIES *
*  DATE 12/16/86         TIME 08:42:02 *
*  RUN  1                TRIP 1      *
*                                    *
**************************************


     LOG NAME CDL    ASSET NO. 42452    UNIT NO. 6406
  CALIBRATION ENTERED ON 12/16/86 AT 01:53:18          LARGE TOOL
                         SOURCE NUMBER 767

CURVE   COUNTS/SEC.    SCALING FACTORS    RATIO    ENG. VALUE  UNITS
       BLOCK  VALUE    ADD.     MULT.     MG/AL
----   --------      ----------------- --------  ----------  ----

     DATE 12/06/86         CALIBRATION          TIME 13:09:35

LSD     MG       268.8
SSD              563.4
DEN                                                    2.200  G/CC
CORR                                                   0.000  G/CC
LSD     AL        92.4    0.000     1.0000   2.9093
SSD              383.6    0.000     1.0000   1.4687
DEN                                                    2.800  G/CC
CORR                                                   0.000  G/CC
LSD     MGRV     247.7
SSD              610.7
DEN                                                    2.480  G/CC
CORR                                                   0.234  G/CC

     DATE 12/06/86    PRIMARY VERIFICATION      TIME 13:23:35

LSD     AL        90.3    0.000     1.0000
SSD              381.3    0.000     1.0000
DEN                                                    2.818  G/CC
CORR                                                   0.005  G/CC

     DATE 12/16/86   BEFORE LOG VERIFICATION    TIME 02:14:17

LSD     AL        91.7    0.000     1.0000
SSD              382.7    0.000     1.0000
DEN                                                    2.806  G/CC
CORR                                                   0.001  G/CC
```

```
     DATE 12/16/86    AFTER LOG VERIFICATION    TIME 08:14:49

LSD     AL       91.6    0.000    1.0000
SSD             382.6    0.000    1.0000
DEN                                                         2.807  G/CC
CORR                                                        0.001  G/CC



      LOG NAME CAL     ASSET NO. 42542    UNIT NO. 6406
  CALIBRATION ENTERED ON 12/16/86 AT 01:52:32

CURVE   MILLIVOLTS      SCALING FACTORS    ENGINEERING VALUES   UNITS
          LOW    HIGH    ADD.    MULT.         LOW        HIGH
----  ---------------  ------------------  ---------------------  ----

     DATE 12/13/86          CALIBRATION          TIME 02:17:45

CAL    2280.5  5741.3    2.046    0.0133      6.000      12.000 INCH

                         PRIMARY VERIFICATION              NOT DONE

     DATE 12/16/86   BEFORE LOG VERIFICATION    TIME 06:14:38

CAL      E      3252.0    2.346    0.0133      E            7.984 INCH

     DATE 12/16/86    AFTER LOG VERIFICATION    TIME 08:10:50

CAL      E      3490.7   -2.554    0.0133      E            3.498 INCH



      LOG NAME CN      ASSET NO. 73532    UNIT NO. 6406
  CALIBRATION ENTERED ON 12/16/86 AT 01:52:50         LARGE TOOL
                           SOURCE NUMBER S17520

CURVE   COUNTS/SEC.     SCALING FACTORS    RATIO    ENG. VALUE  UNITS
                         ADD.     MULT.  LSN/(SSN*8)
----    --------      ------------------ ---------  ----------  ----

     DATE 12/06/86          CALIBRATION          TIME 10:35:54

LSN         106.0          0.000    1.0000
SSN         150.2          0.000    1.0000
CN                                           0.0882       15.000  %

     DATE 12/06/86    PRIMARY VERIFICATION      TIME 10:40:45

LSN         103.3          0.000    1.0000
SSN         151.7          0.000    1.0000
CN                                           0.0852       16.271  %

     DATE 12/16/86   BEFORE LOG VERIFICATION    TIME 02:10:27

LSN         101.6          0.000    1.0000
SSN         150.5          0.000    1.0000
CN                                           0.0844       16.611  %

     DATE 12/16/86    AFTER LOG VERIFICATION    TIME 08:19:23

LSN         101.1          0.000    1.0000
SSN         150.0          0.000    1.0000
CN                                           0.0843       16.656  %



      LOG NAME GR      ASSET NO. 72564D   UNIT NO. 6406
  CALIBRATION ENTERED ON 12/16/86 AT 01:56:34

CURVE   MILLIVOLTS      SCALING FACTORS    ENGINEERING VALUES   UNITS
          LOW    HIGH    ADD.    MULT.         LOW        HIGH
----  ---------------  ------------------  ---------------------  ----

     DATE 12/16/86          CALIBRATION          TIME 01:56:34

GR     1301.0  4704.9    0.000    0.1075      0.000     150.000 API

                         PRIMARY VERIFICATION              NOT DONE

                        BEFORE LOG VERIFICATION            NOT DONE

     DATE 12/16/86    AFTER LOG VERIFICATION    TIME 08:36:40

GR     1181.2  4529.4    0.000    0.1075     52.052     199.599 API
```

Dresser Atlas DRESSER

FORM 925348 (09/80)