FORM 925317

Dresser Atlas

DRESSER

Dual Induction Focused Log

R

FILE NO.

API NO.

5" 100'

COMPANY ORLGON NATURAL GAS CORPORATION

WELL C4 [illegible] 3 Confidential

FIELD MIST

COUNTY COLUMBIA STATE ORLGON

LOCATION: 455.6' N. & 115.58' E. FROM W¼ CORNER OF:

SEC 3 TWP 6N RGE 5W

Other Services: BHC/AL CDLC/CN/GR DIP

Permanent Datum GL Elev 1012.8'

Log Measured from KB 11.5 Ft. Above Permanent Datum

Drilling Measured from KB

Elev: KB 1024.3' DF GL 1012.8'

Date	12-31-86		1-6-87	
Run No.	ONE		TWO	
Service Order	22811		22814	
Depth — Driller	2690'		3156'	
Depth — Logger	2129'		3156'	
Bottom Logged Interval	2105'		3154'	
Top Logged Interval	498'		498'	
Casing — Driller	8 5/8 @ 501'	@	8 5/8 @ 501	@
Casing — Logger	498'		498'	
Bit Size	7 7/8"		7 7/8"	
Type Fluid in Hole	ORZAN/DRISPAC		ORZAN/DRISPAC	
Density and Viscosity	9.5 | 58	|	10 | 54	|
pH and Fluid Loss	9.0 | 4.2 cc	| cc	9.5 | 4.0 cc	| cc
Source of Sample	FLOWLINE		FLOWLINE	
Rm @ Meas. Temp	1.94 @ 70 °F	@ °F	2.15 @ 45 °F	@ °F
Rmf @ Meas. Temp	2.39 @ 70 °F	@ °F	2.85 @ 45 °F	@ °F
Rmc @ Meas. Temp	2.18 @ 70 °F	@ °F	1.50 @ 45 °F	@ °F
Source of Rmf and Rmc	M | M	|	M | M	|
Rm @ BHT	1.36 @ LESS THAN 100 °F	@ °F	0.96 @ LESS THAN 100 °F	@ °F
Time Since Circ.	2.5 HRS.		2 HRS.	
Max. Rec. Temp. Deg. F	LESS THAN 100 °F	°F	LESS THAN 100 °F	°F
Equip. No. and Location	6406 | SAC.	|	6406 | SAC.	|
Recorded By	B. WELCH		M. HINDS	
Witnessed By	MR. THOMAS		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	DIFL	72831	1503	1.5" SO
1	1	AC			
1	1	GR			
1	1	CAL	57654	1940	CENT

REMARKS RUN (2)

EQUIPMENT DATA

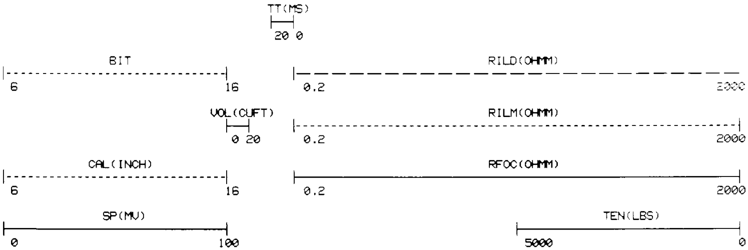
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
2	2	DIFL	72831	1503	CENT.
2	2	AC	79725	1609	CENT.
2	2	GR			
2	2	CAL	57654	4202	VARIABLE

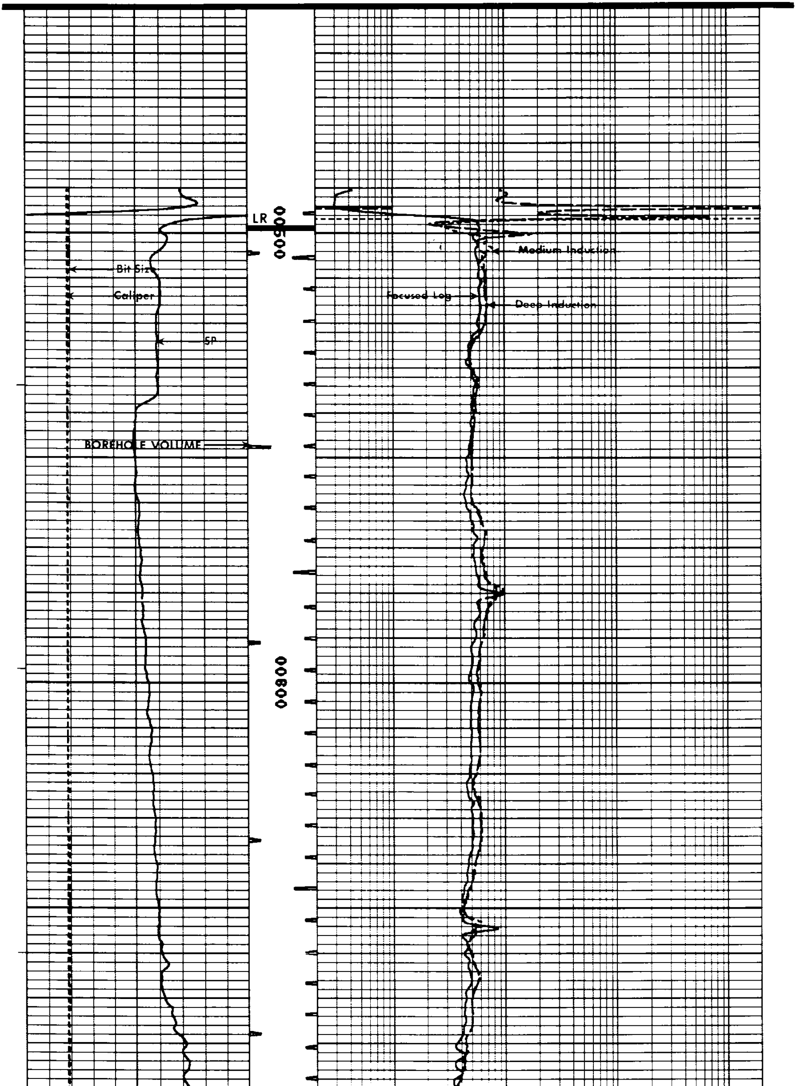
COMPANY: OREGON NATURAL GAS CORP. RUN:

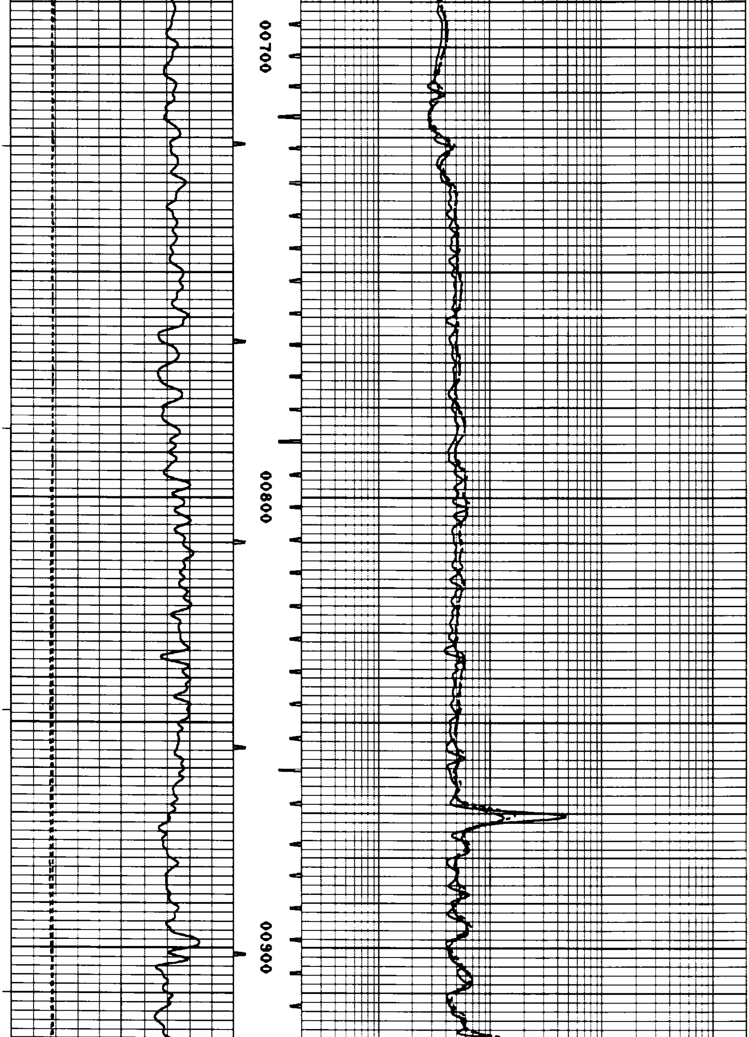
WELL NAME: OM 12 C-3 TRIP: -

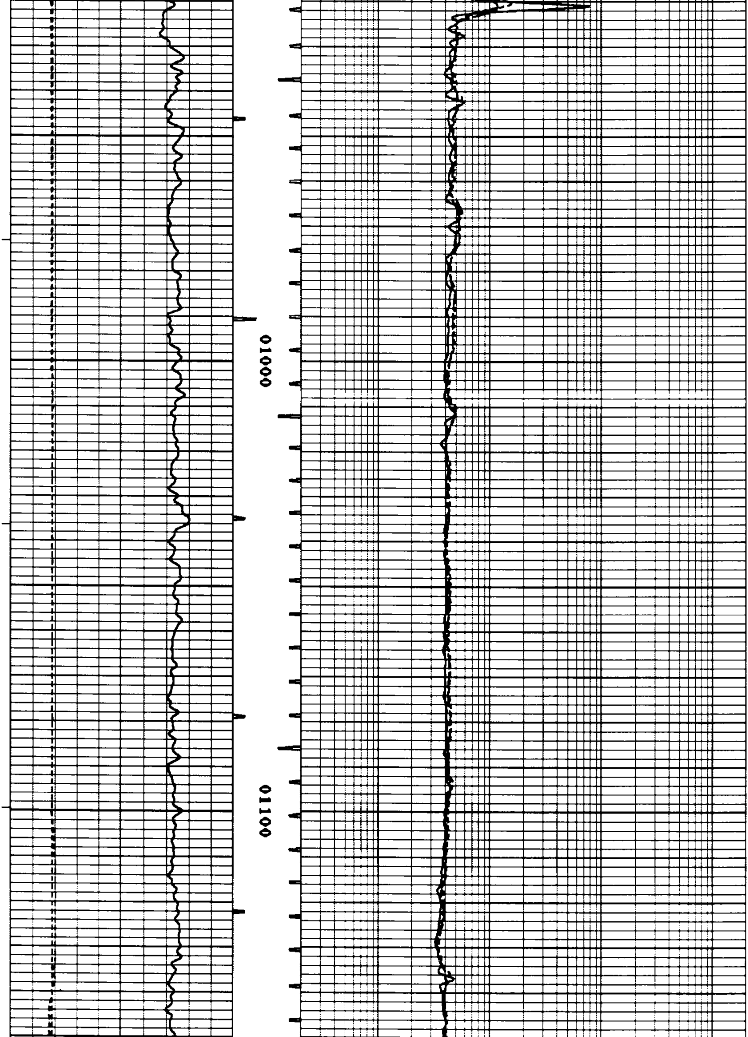
SERVICE: KC214N FILE: 3 DATE: 01/06/87 TIME: 02:36:49

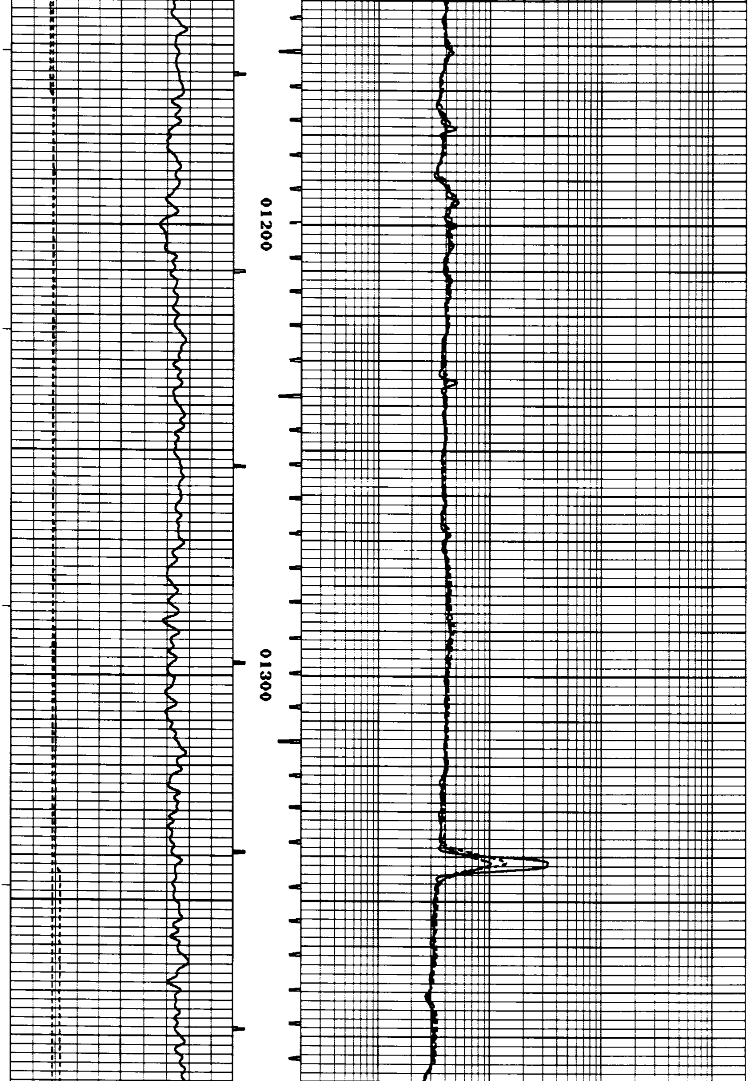
REVISION: FSYSAL OV3 D007 VER 7 MODE: RECORD

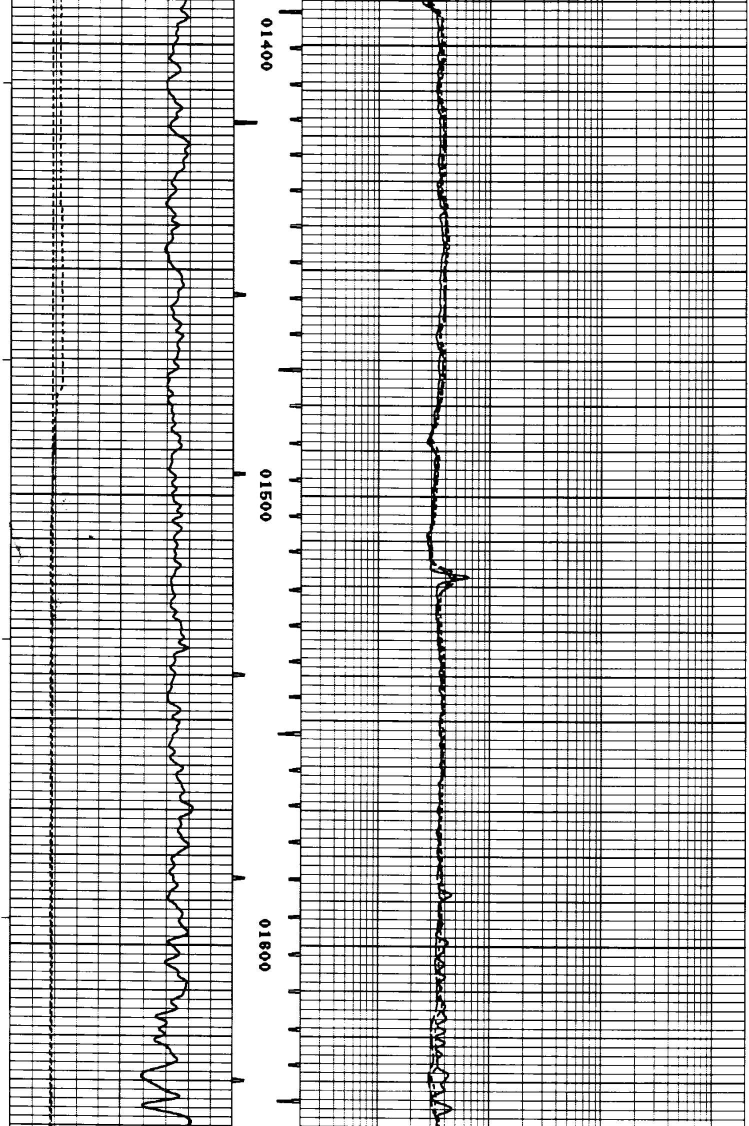


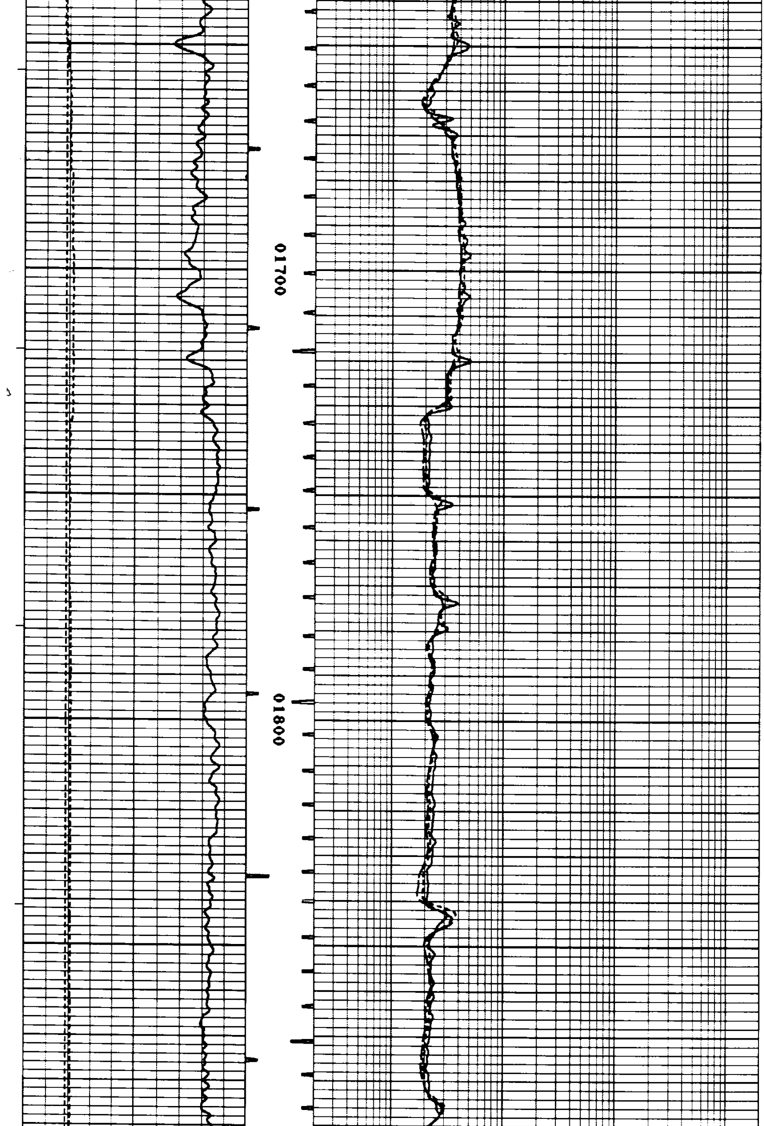


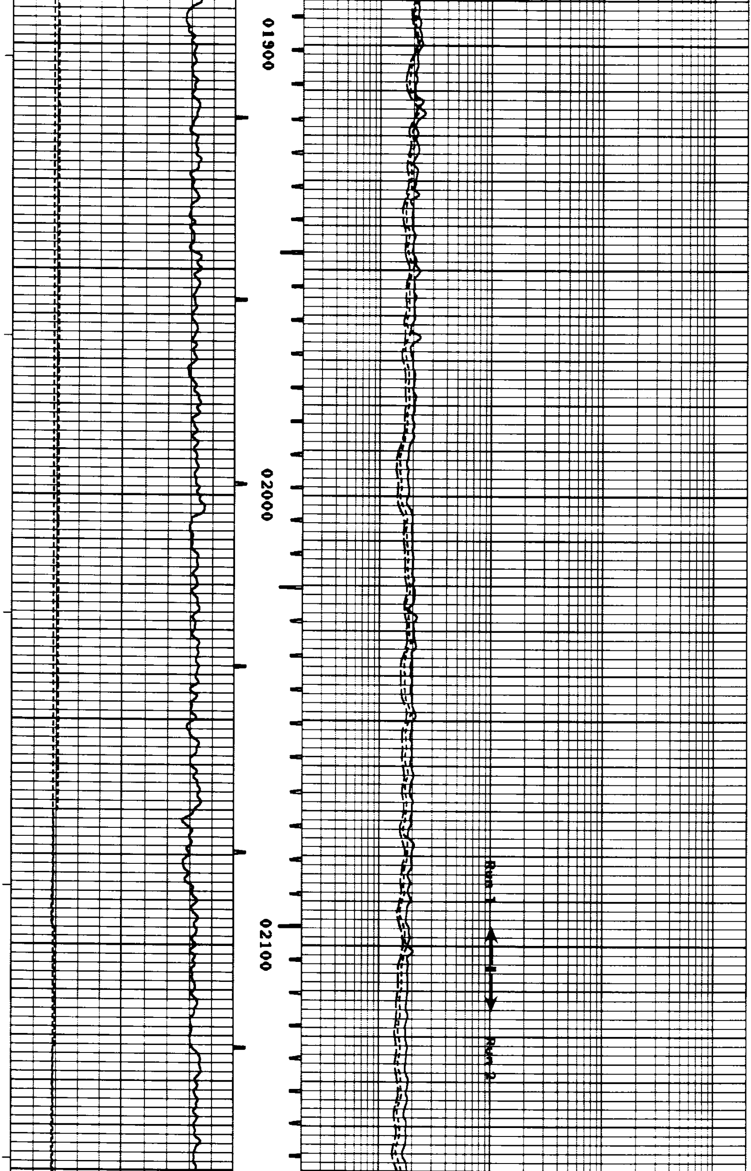


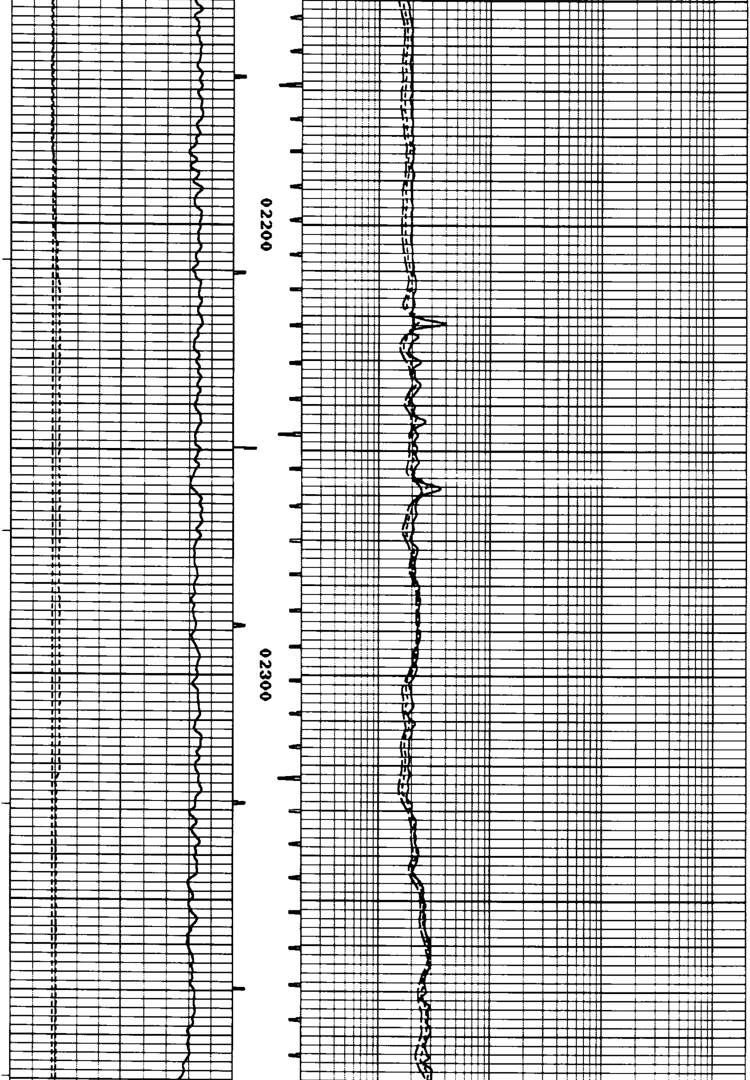


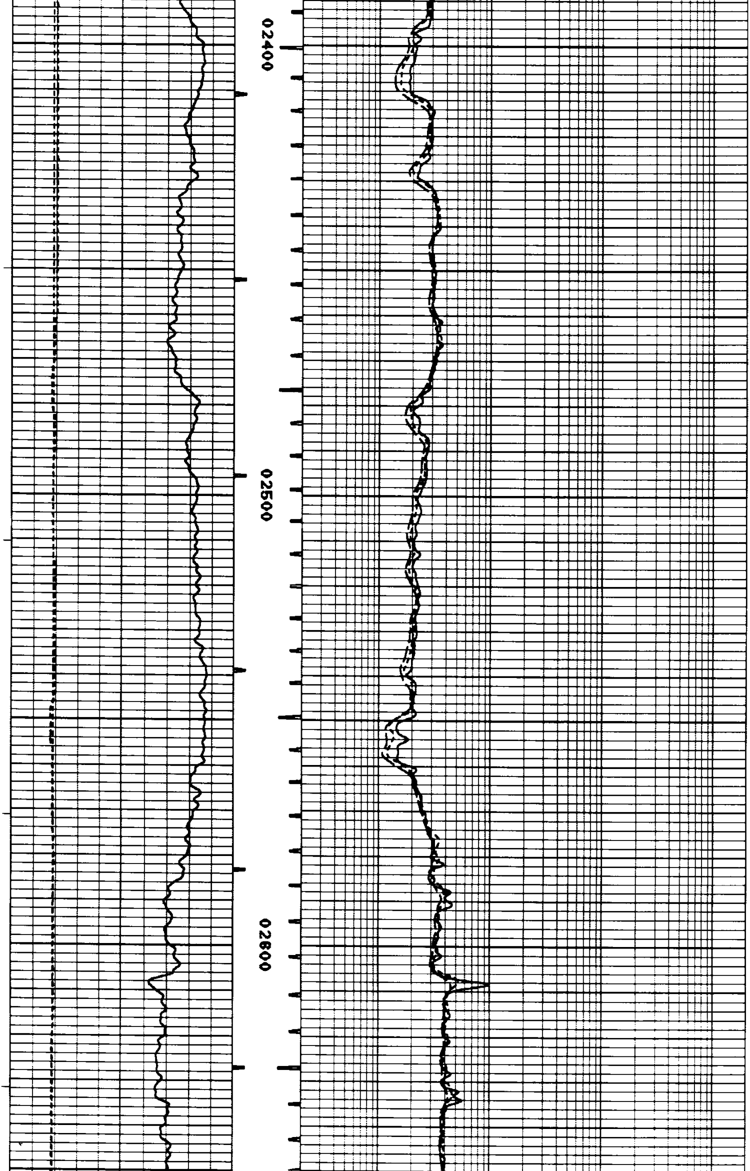


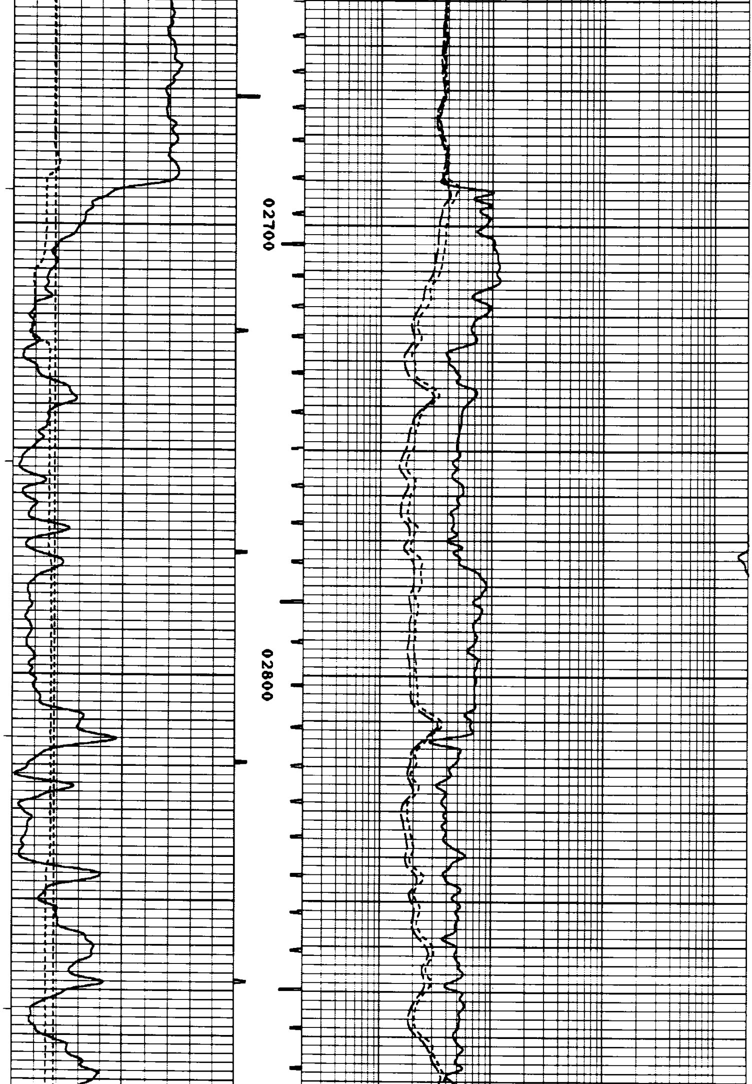


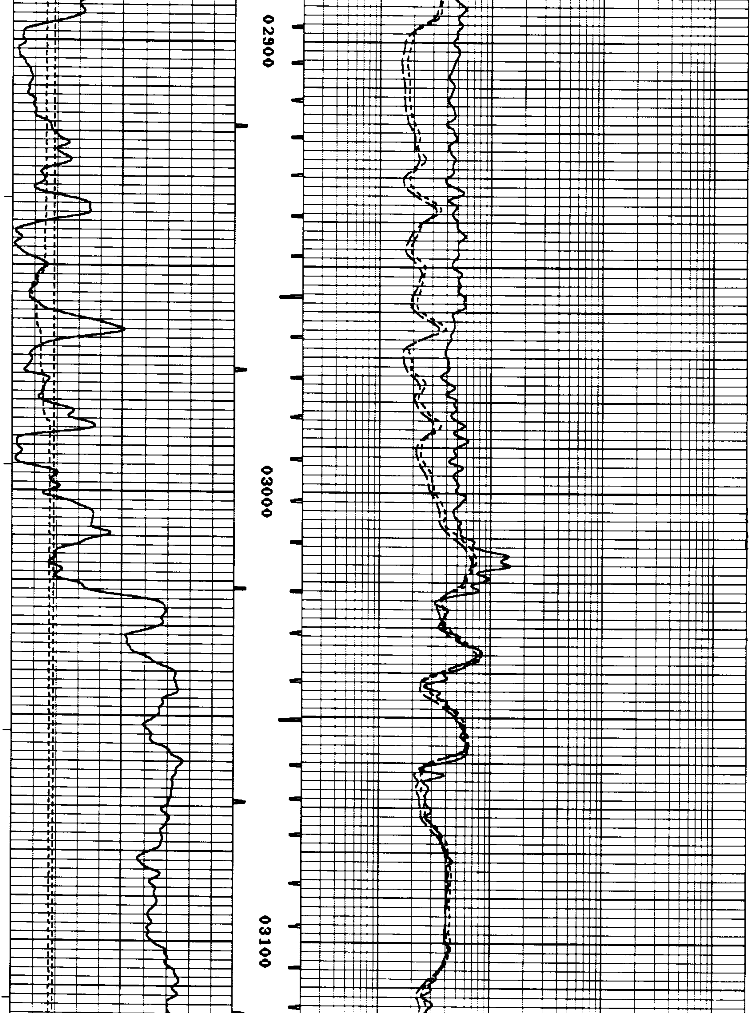


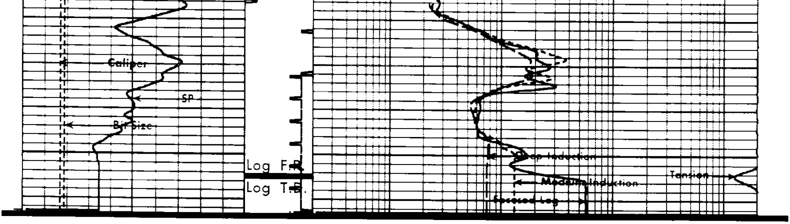












TT(MS)
20 0

BIT
6 16

VOL(CUFT)
0 20

CAL(INCH)
6 16

SP(MV)
0 100

RILD(OHMM)
0.2 2000

RILM(OHMM)
0.2 2000

RFOC(OHMM)
0.2 2000

TEN(LBS)
5000 0

CURVE DELAYS

COMPANY: OREGON NATURAL GAS CORP.
WELL NAME: OM 12 C-3
SERVICE: KC214N
FILE: 2
DATE: 01/06/87
REVISION: FSYSAL OV3 D007 VER 7
RUN: 2
TRIP: 2
TIME: 02:27:05
MODE: RECORD

REPEAT SECTION

TT(MS)
20 0

BIT
6 16

VOL(CUFT)
0 20

CAL(INCH)
6 16

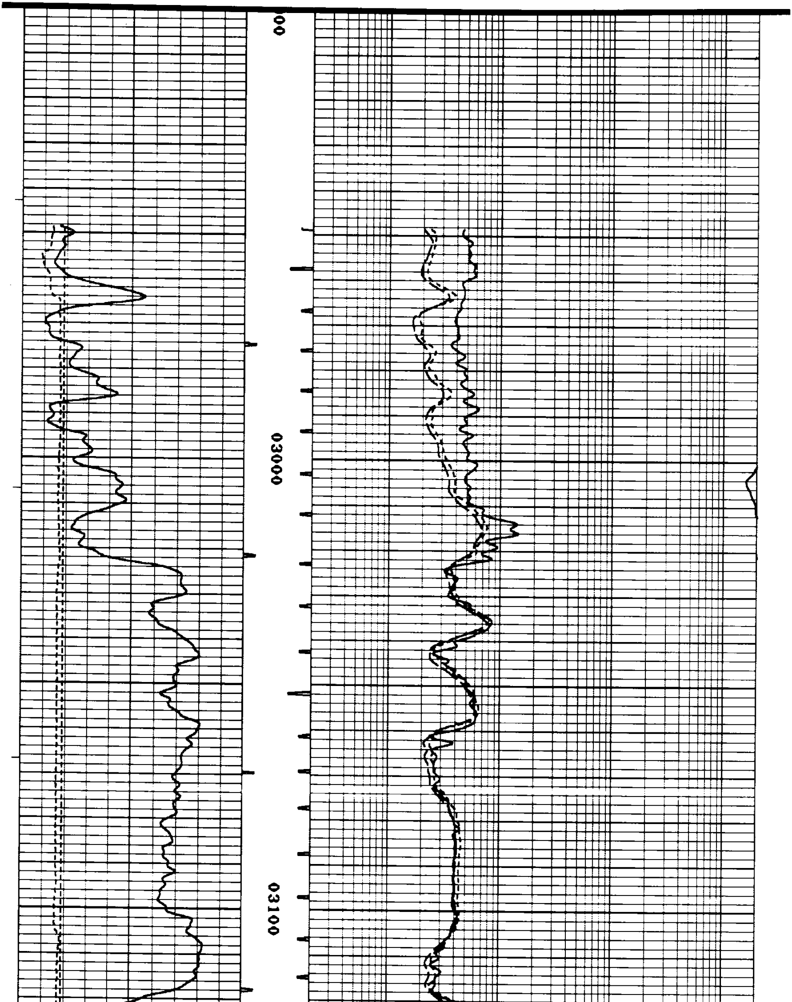
SP(MV)
0 100

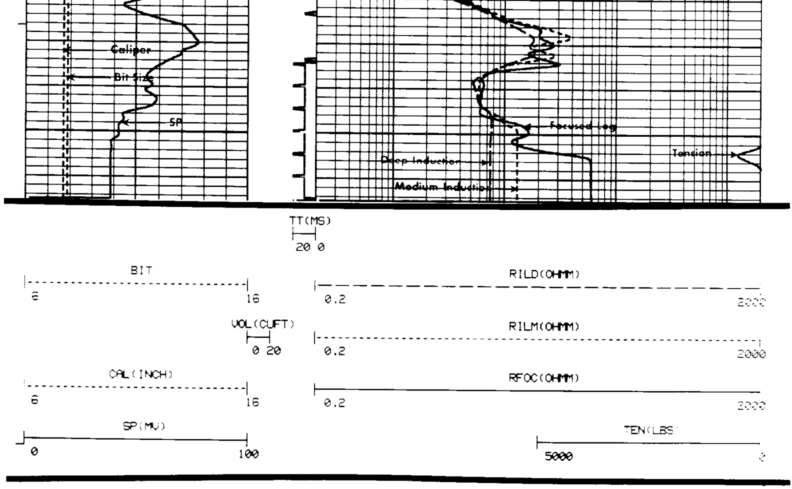
RILD(OHMM)
0.2 2000

RILM(OHMM)
0.2 2000

RFOC(OHMM)
0.2 2000

TEN(LBS)
5000 0





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               ****************************************
               *                                      *
               *  CALIBRATION/VERIFICATION SUMMARIES  *
               *  DATE 01/06/87          TIME 03:24:12 *
               *  RUN  2                 TRIP 2       *
               *                                      *
               ****************************************


        LOG NAME DIFL    ASSET NO. 72831     UNIT NO. 6406
     CALIBRATION ENTERED ON 01/06/87 AT 00:50:38

   CURVE   MILLIVOLTS     SCALING FACTORS   ENGINEERING VALUES   UNITS
             LOW    HIGH   ADD.     MULT.       LOW       HIGH
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         DATE 12/10/86          CALIBRATION          TIME 11:06:36

   CILD      3.5   486.3  -1.873    2.0164       1.000    500.000 MMHO
   CILM     -1.4   536.9   2.167    2.0926       1.000    500.000 MMHO
   CFOC      5.3   517.3  -4.154    2.3781       1.000    500.000 MMHO

         DATE 12/10/86    PRIMARY VERIFICATION       TIME 11:07:38

   CILD     -0.5   489.5  -1.873    2.0164      -2.296    503.190 MMHO
   CILM     -0.7   545.8   2.167    2.0926       1.578    508.934 MMHO
   CFOC      6.0   523.4  -4.154    2.3781       1.669    505.946 MMHO

         DATE 01/06/87   BEFORE LOG VERIFICATION     TIME 02:11:23

   CILD     -0.3   490.1  -1.873    2.0164      -2.125    504.024 MMHO
   CILM     -0.5   545.4   2.167    2.0926       1.758    508.508 MMHO
   CFOC      5.9   502.2  -4.278    2.4494       1.661    499.814 MMHO

         DATE 01/06/87    AFTER LOG VERIFICATION     TIME 03:23:21

   CILD     -0.2   494.8  -1.873    2.0164      -2.053    509.788 MMHO
   CILM     -0.4   550.3   2.167    2.0926       1.883    513.431 MMHO
   CFOC      6.1   504.5  -4.278    2.4494       1.818    502.141 MMHO

              *** GR   NOT CALIBRATED ***


        LOG NAME CAL     ASSET NO. 57654     UNIT NO. 6406
     CALIBRATION ENTERED ON 01/06/87 AT 00:59:54
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CURVE   MILLIVOLTS       SCALING FACTORS      ENGINEERING VALUES    UNITS
          LOW     HIGH    ADD.      MULT.         LOW         HIGH
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      DATE 03/12/86          CALIBRATION           TIME 15:54:43

CAL     2909.3  6517.0    1.162     0.0127       6.000      12.000 INCH

                         PRIMARY VERIFICATION             NOT DONE

      DATE 01/06/87    BEFORE LOG VERIFICATION     TIME 02:03:23

CAL        E     4089.7   1.162     0.0127       E           7.963 INCH

      DATE 01/06/87     AFTER LOG VERIFICATION     TIME 03:21:55

CAL        E     3915.3   1.462     0.0127       E           7.973 INCH
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Dresser Atlas

DRESSER