FORM 92527 Rev. (09/81)

DRESSER ATLAS

DRESSER

Hi Resolution 4-ARM Diplog

FILE NO.

API NO.

5" = 100'

COMPANY ORIGON NATURAL GAS CORPORATION

WELL OM 12 C-3

FIELD MIST

COUNTY COLUMBIA STATE ORIGON

LOCATION: 455.6' N. & 113.58' E. FROM W/4 CORNER OF:

SEC 3 TWP 6N RGE 5W

Other Services
DIFL
BHC AL
CDL/CN/GR

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'

Confidential

Date	1-6-87			
Run No.	ONE			
Service Order	22814			
Depth — Driller	3156'			
Depth — Logger	3156'			
Bottom Logged Interval	3154'			
Top Logged Interval	498'			
Casing — Driller	8 5/8" @ 501'	@	@	@
Casing — Logger	498'			
Bit Size	7 7/8"			
Type Fluid in Hole	ORZAN/DRISPAC			
Density and Viscosity	10 54			
pH and Fluid Loss	9.5 4.0 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.15 @ 45°F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.85 @ 45°F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.50 @ 45°F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M M			
Rm @ BHT	0.96 @ LESS THAN @100°F		@ °F	@ °F
Time Since Circ.	4.5 HRS.			
Max. Rec. Temp. Deg. F.	LESS THAN °F 100	°F	°F	°F
Equip. No. and Location	6406 SAC.			
Recorded By:	M. HINDS			
Witnessed By:	MR. THOMAS			

FOLD HERE

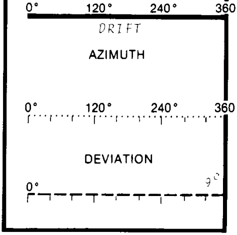
In making interpretations of logs our employees will give Customer the benefit of their best judgment, but since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or the correctness of any interpretation. We shall 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.

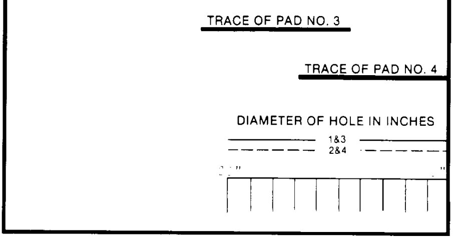
Remarks:

TAPING DATA

Run No.	File	Starting Depth	Ending Depth

ORIENTATION	DEPTHS	FOCUSED CORRELATION CURVES AND CALIPERS
AZIMUTH		TRACE OF PAD NO. 1 TRACE OF PAD NO. 2

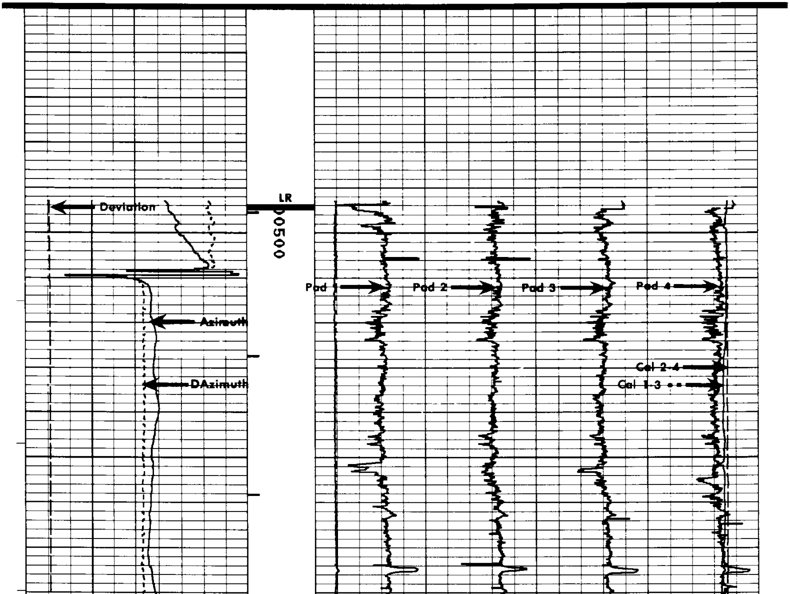


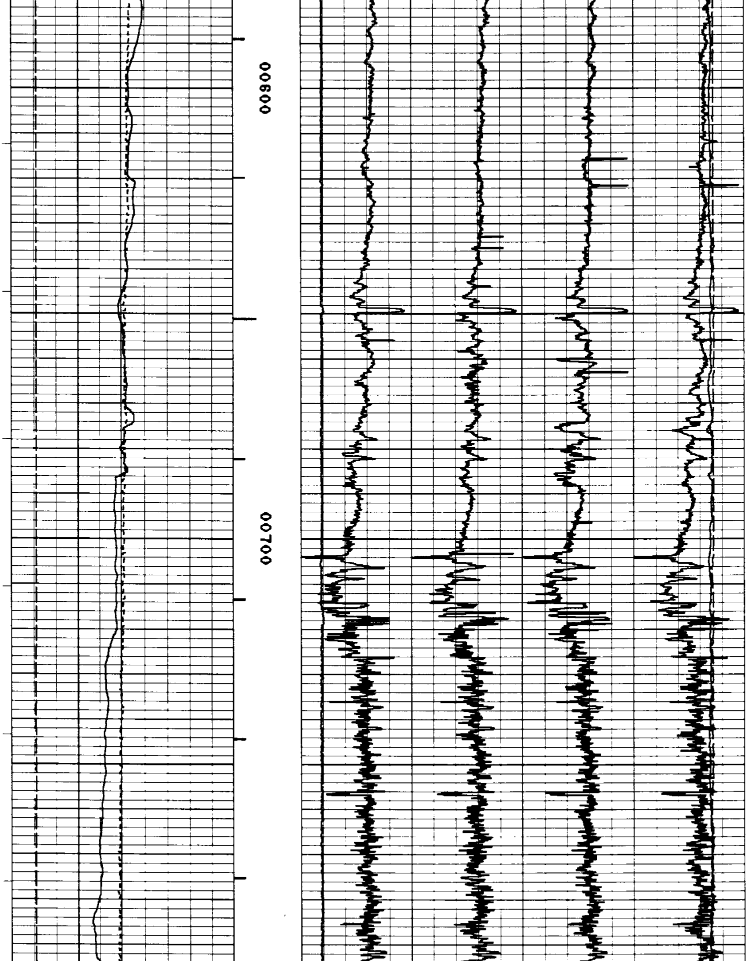


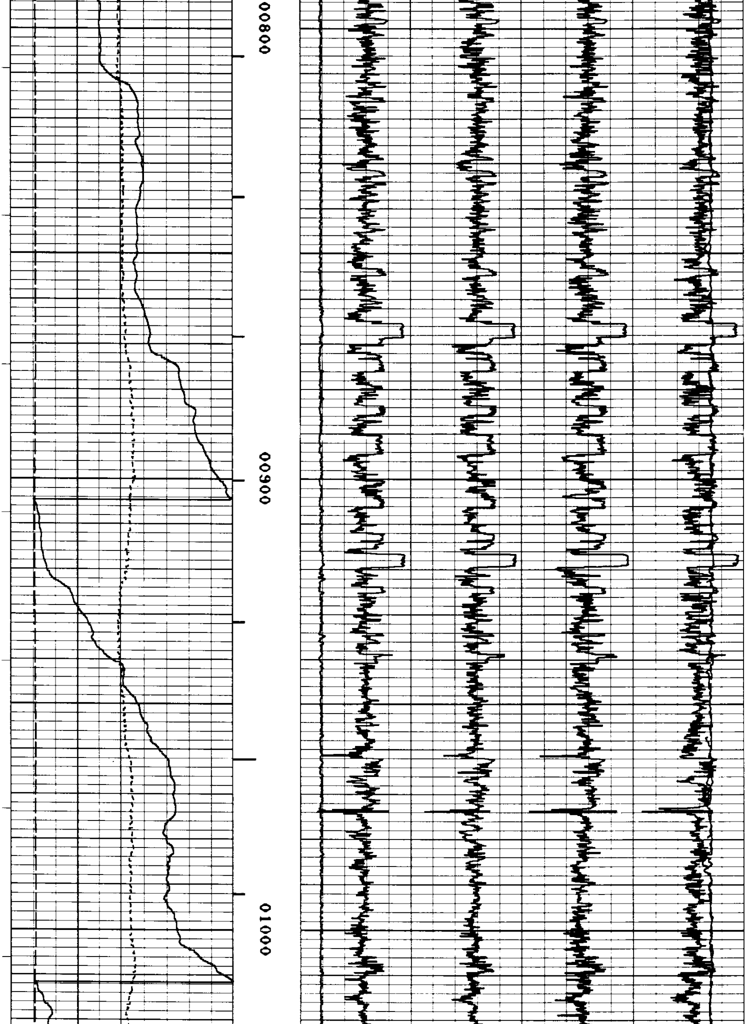
OREGON NATURAL GAS CORP.

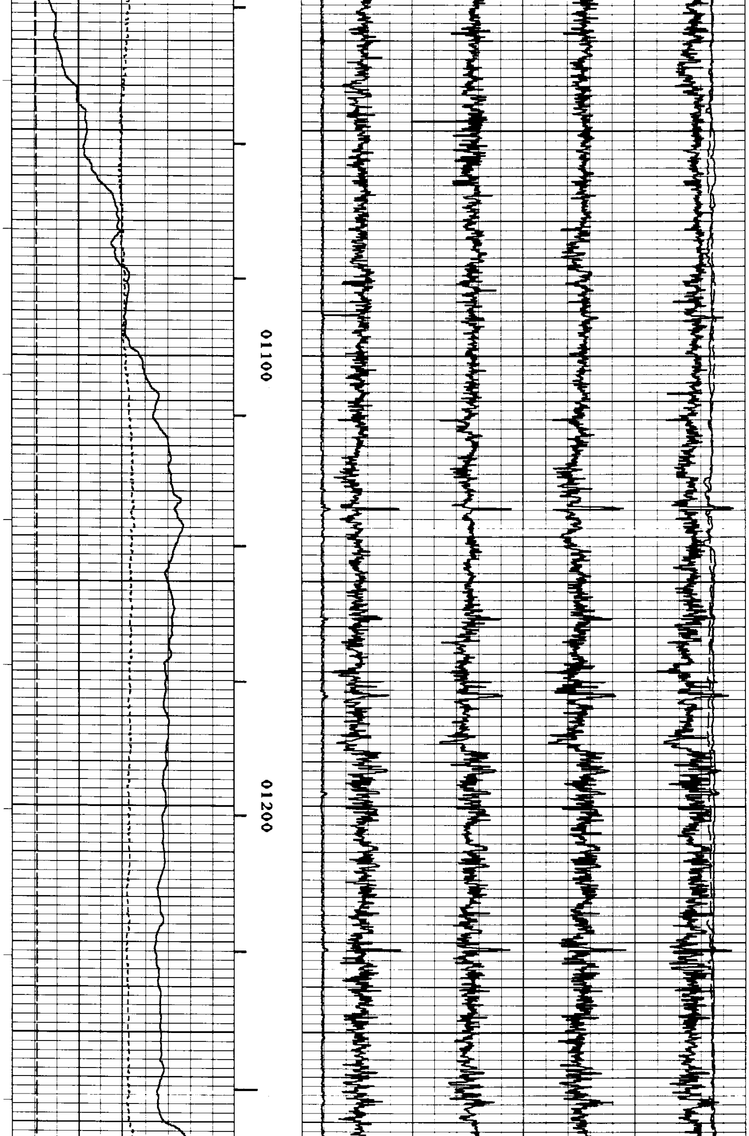
OM 12 C-3

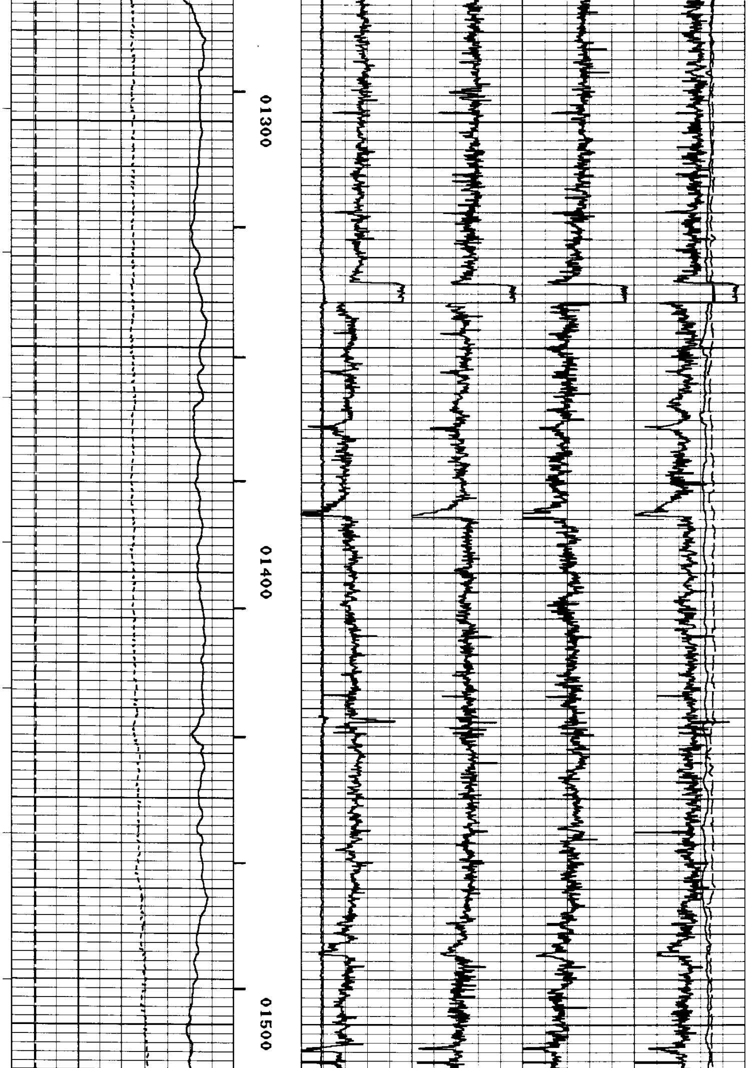
SERVICE DL3508 FILE 4

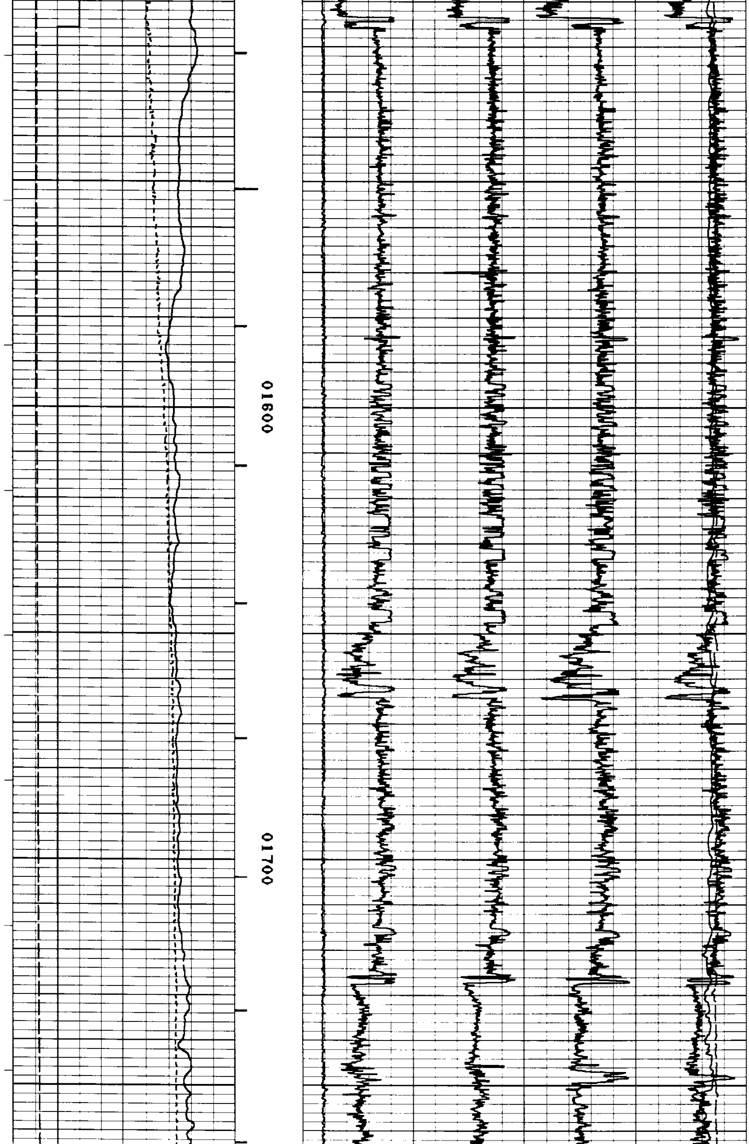


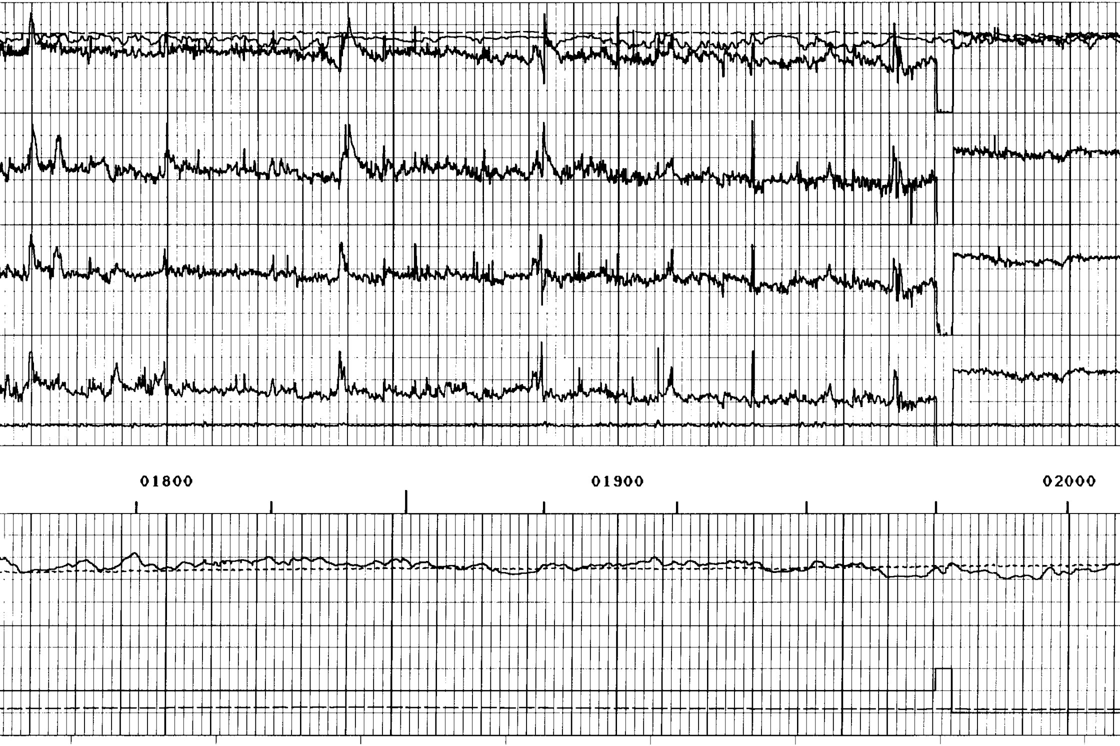


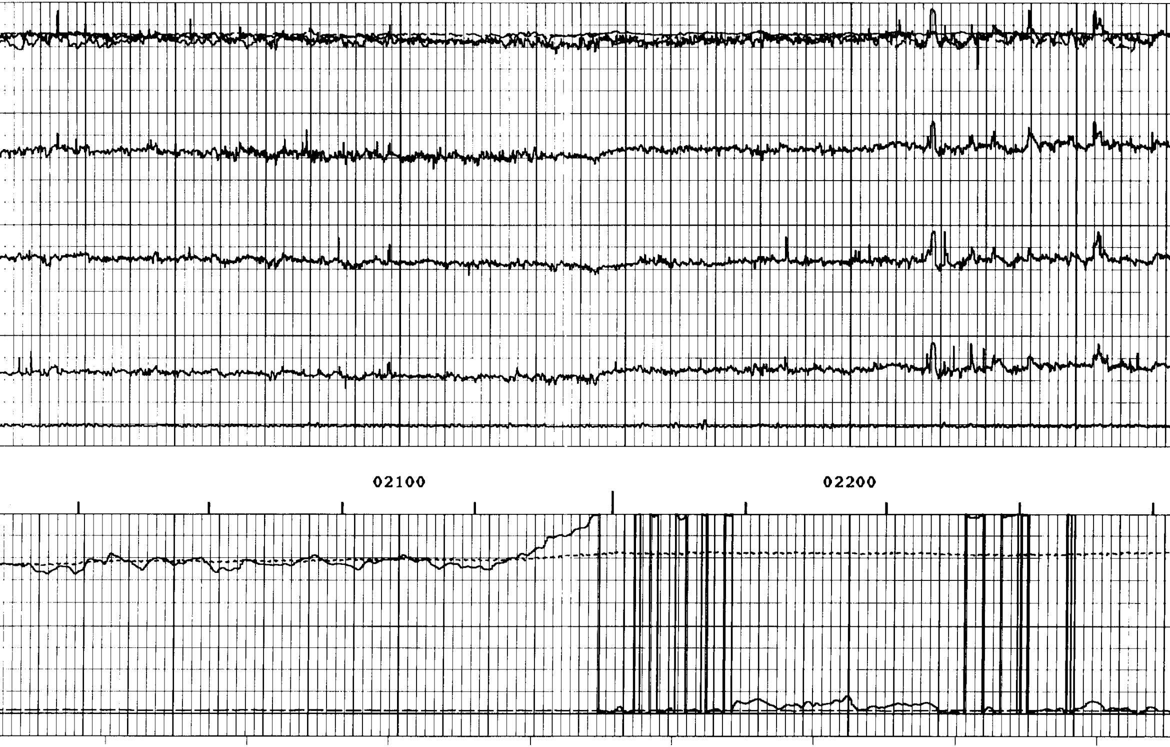


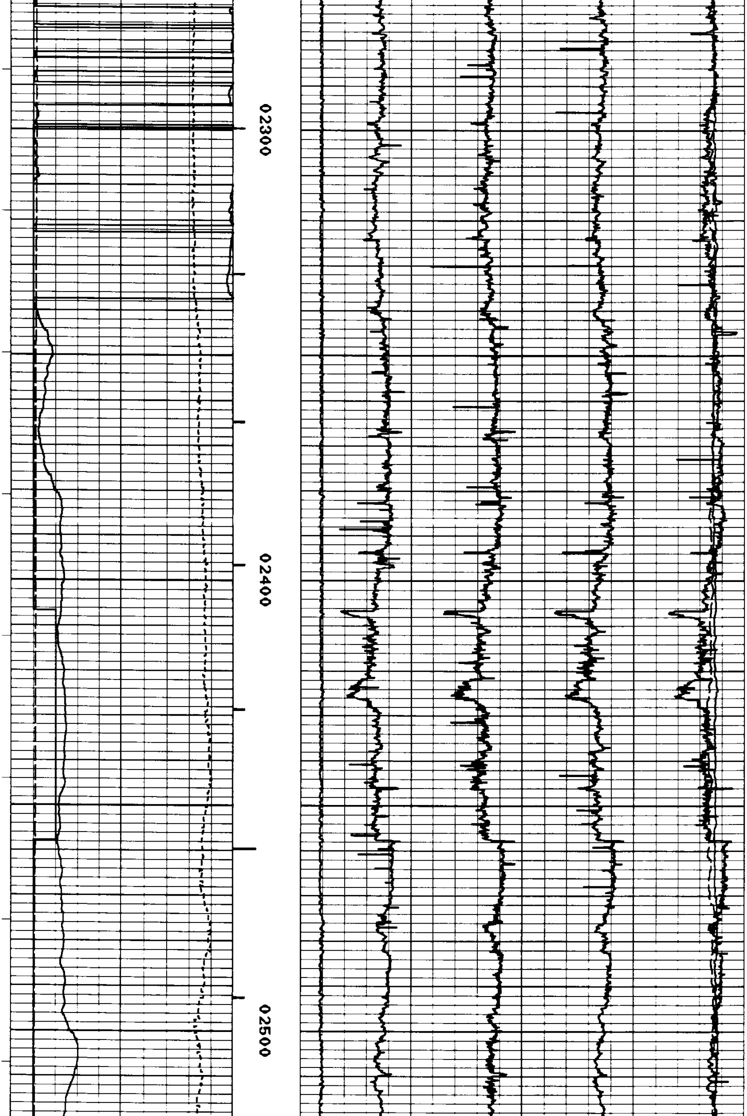


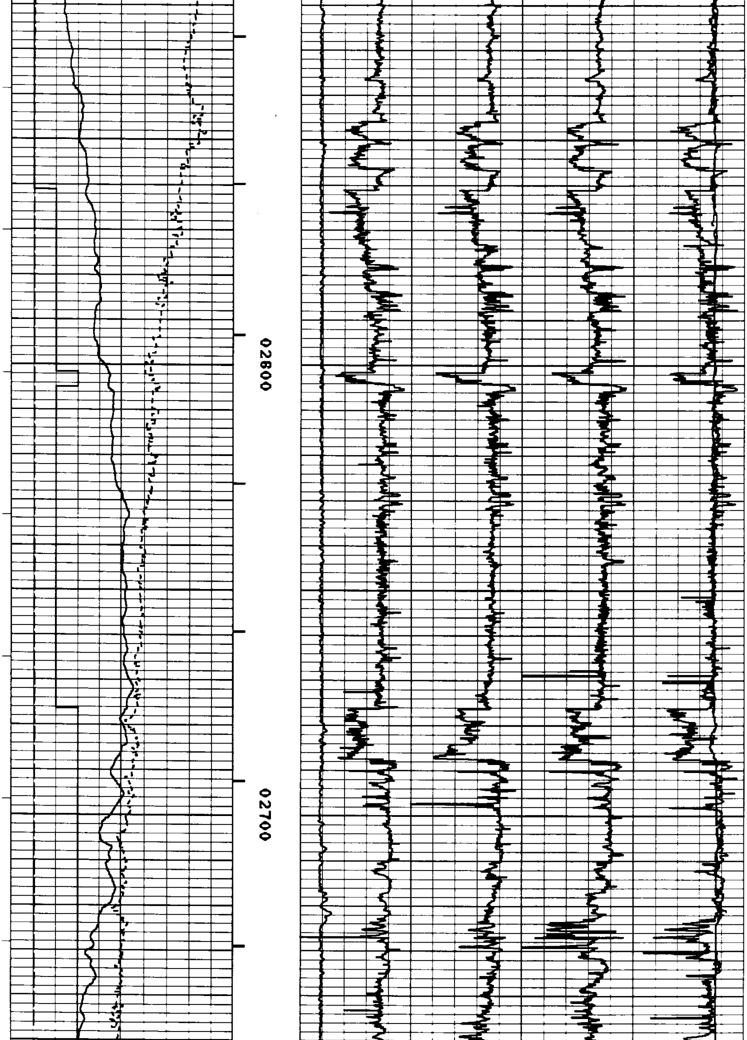


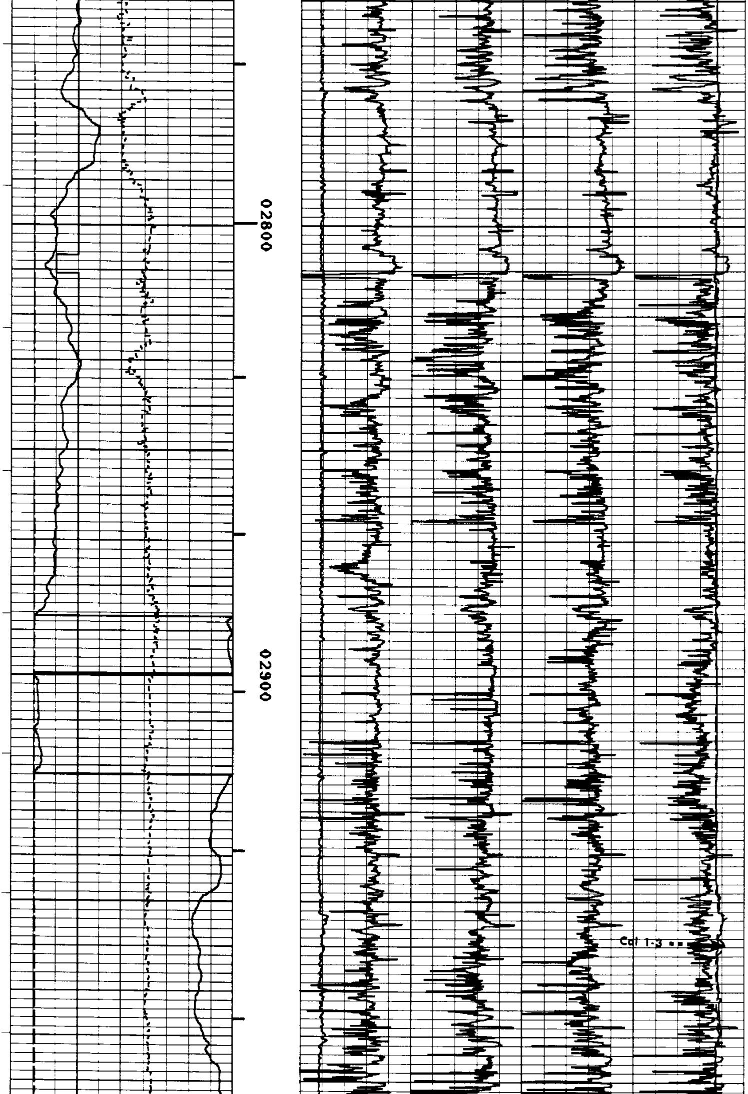


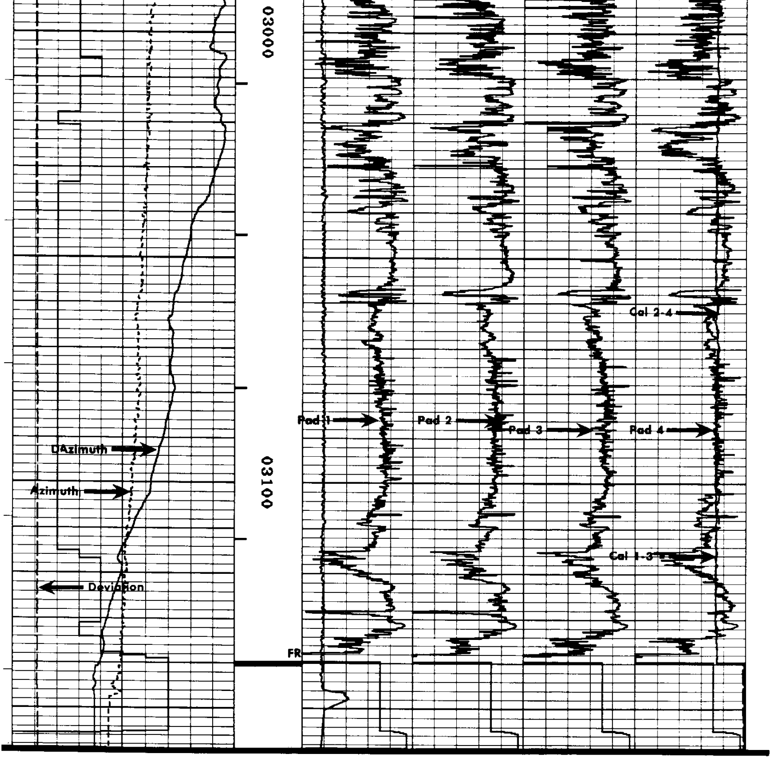


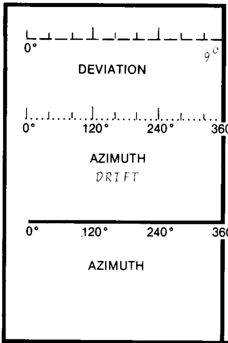


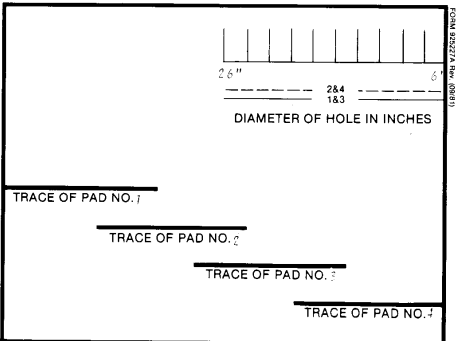






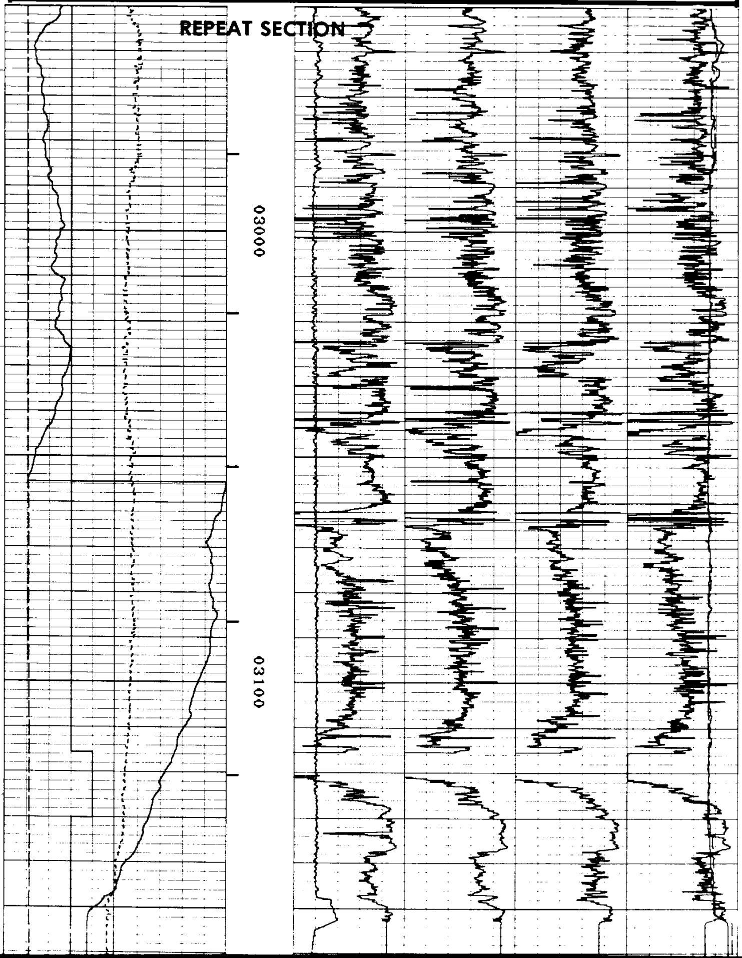


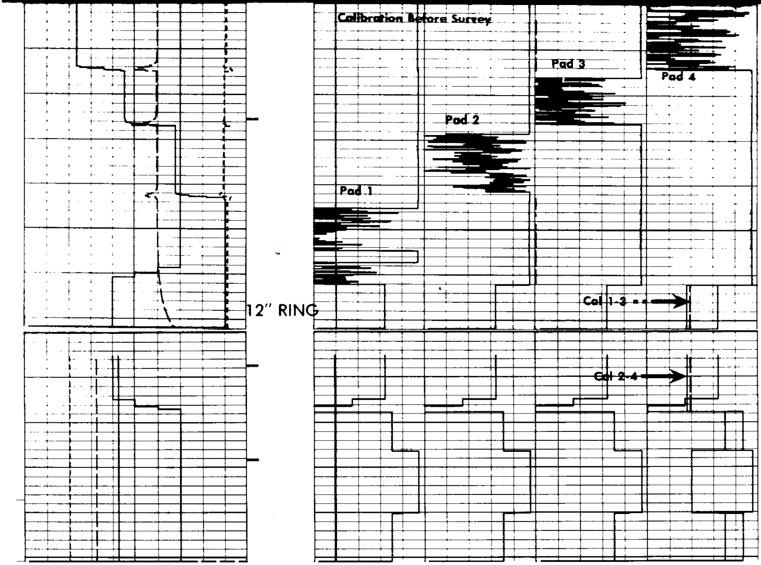




FORM 925227A Rev. (09/81)

ORIENTATION	DEPTHS	FOCUSED CORRELATION CURVES AND CALIPERS





DresserAtlas DRESSER

COMPANY OREGON NATURAL GAS CORP.

WELL OM 12 C-3

FIELD MIST

COUNTY COLUMIBA

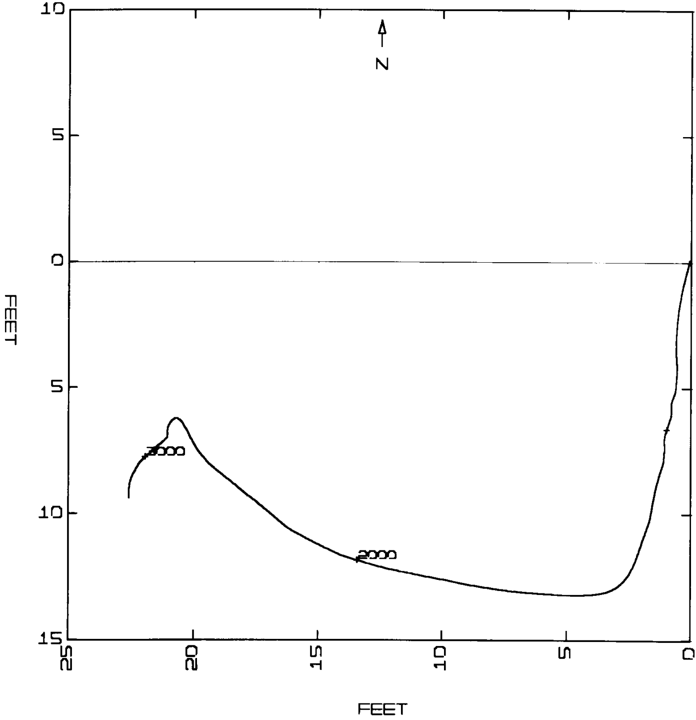
COMMENTS

FINAL EAST-WEST DEVIATION 22.58 W

FINAL NORTH-SOUTH DEVIATION 9.38 S

FINAL DISTANCE 24.45 FT

FINAL DEVIATION DIRECTION S 67.44 W



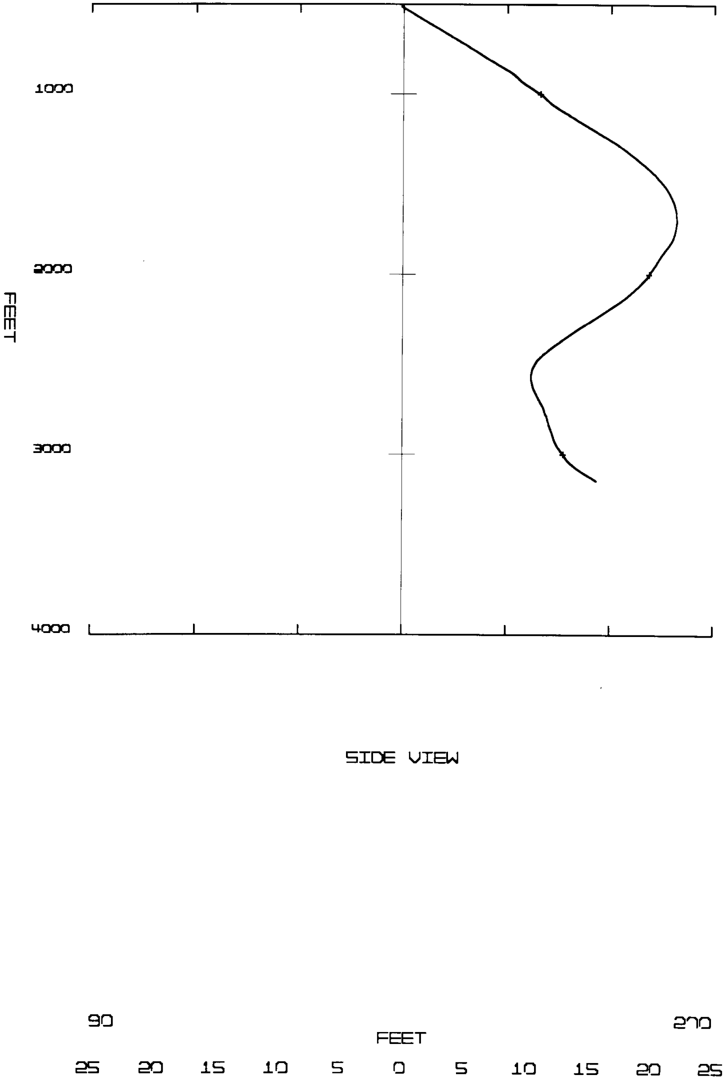
PLAN VIEW

0

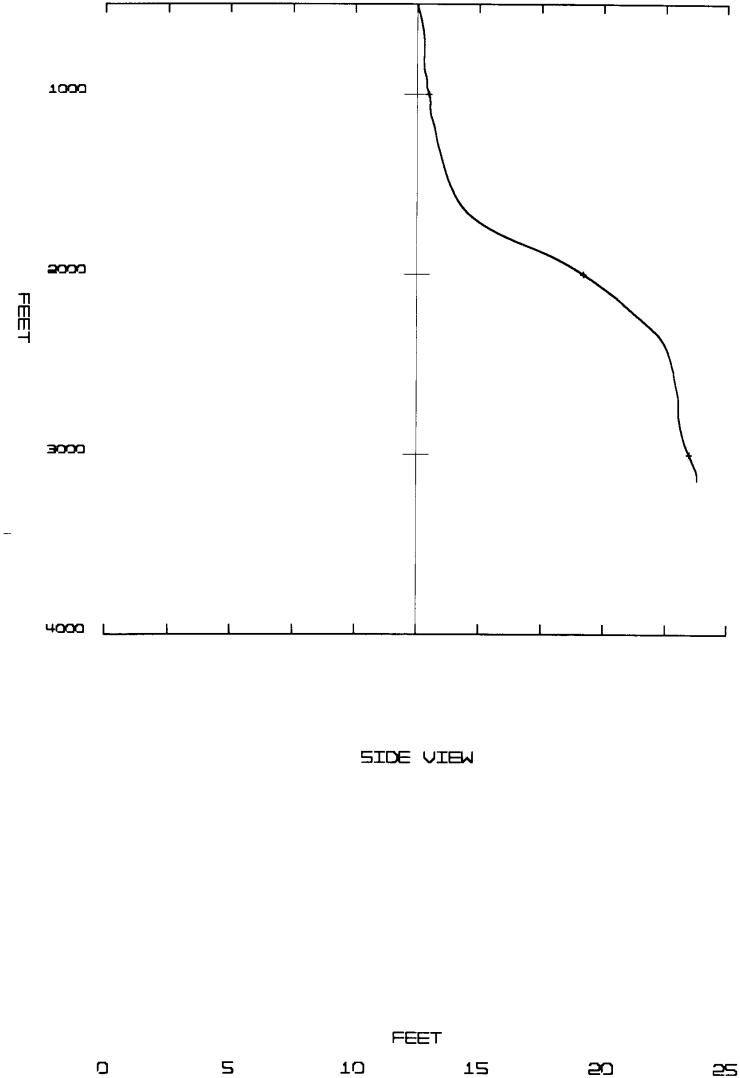
180

FEET

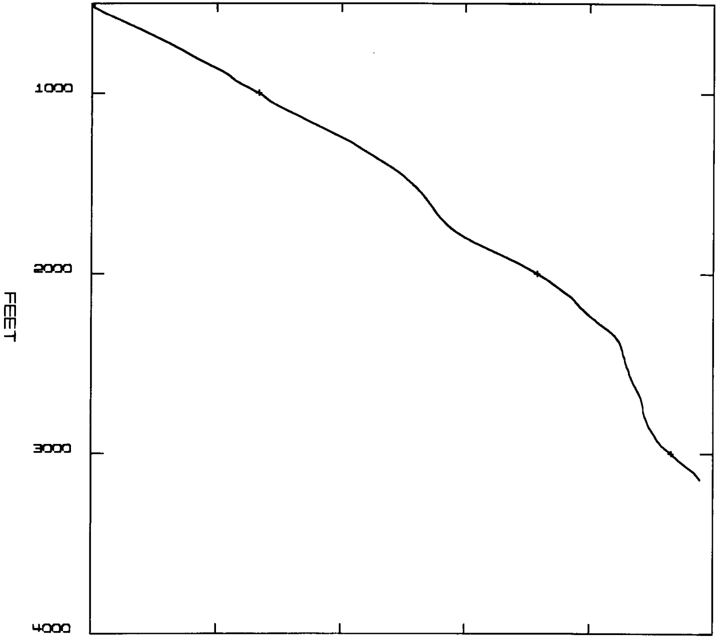
15 10 5 0 5 10 15



SIDE VIEW



SIDE VIEW



DEPTH VS. DRIFT

OREGON NATURAL GAS CORP.
OM 12 C-3

				COORDINATES			
	DRIFT	DRIFT		STATION		TOTAL	
DEPTH	ANGLE	AZIMUTH	T.V.D.	N-S	E-W	N-S	E-W

```
   498.00    0.6     316.5          498.00      0.00N    0.00E      0.00N      0.00E
   548.00    0.8     194.9          547.99      0.43S    0.20W      0.43S      0.20W
   598.00    0.9     189.3          597.98      0.74S    0.17W      1.17S      0.37W
   648.00    0.8     186.5          647.97      0.76S    0.13W      1.92S      0.50W
   698.00    0.8     184.2          697.96      0.74S    0.07W      2.66S      0.58W
   748.00    0.8     178.0          747.95      0.70S    0.03W      3.37S      0.60W
   798.00    0.8     175.1          797.95      0.65S    0.03E      4.02S      0.57W
   848.00    0.8     184.2          847.94      0.71S    0.02W      4.73S      0.59W
   898.00    0.6     201.4          897.93      0.66S    0.15W      5.39S      0.73W
   948.00    0.7     180.5          947.93      0.52S    0.05W      5.91S      0.79W
   998.00    0.8     196.3          997.92      0.67S    0.18W      6.58S      0.97W
  1048.00    0.6     178.4         1047.92      0.50S    0.11W      7.09S      1.07W
  1098.00    0.9     183.5         1097.91      0.67S    0.02W      7.76S      1.09W
  1148.00    0.9     193.3         1147.90      0.72S    0.19W      8.48S      1.29W
  1198.00    0.8     190.5         1197.89      0.73S    0.18W      9.21S      1.47W
  1248.00    0.8     191.6         1247.88      0.72S    0.14W      9.93S      1.61W
  1298.00    0.7     197.7         1297.87      0.63S    0.17W     10.56S      1.78W
  1348.00    0.7     196.0         1347.87      0.56S    0.20W     11.12S      1.99W
  1398.00    0.7     199.0         1397.86      0.55S    0.20W     11.68S      2.19W
  1448.00    0.6     208.3         1447.86      0.49S    0.22W     12.17S      2.41W
  1498.00    0.5     215.9         1497.85      0.39S    0.26W     12.56S      2.67W
  1548.00    0.5     236.4         1547.85      0.30S    0.33W     12.86S      3.00W
  1598.00    0.6     252.4         1597.84      0.21S    0.41W     13.07S      3.41W
  1648.00    0.7     263.3         1647.84      0.11S    0.59W     13.18S      4.00W
  1698.00    1.1     271.3         1697.83      0.03S    0.84W     13.21S      4.83W
  1748.00    1.5     274.8         1747.81      0.05N    1.12W     13.15S      5.96W
  1798.00    1.9     276.7         1797.79      0.12N    1.44W     13.03S      7.39W
  1848.00    2.1     280.9         1847.76      0.27N    1.74W     12.76S      9.13W
  1898.00    1.8     282.3         1897.73      0.32N    1.67W     12.44S     10.80W
  1948.00    1.6     282.9         1947.70      0.27N    1.38W     12.17S     12.19W
  1998.00    1.3     285.9         1997.69      0.31N    1.19W     11.86S     13.37W
  2048.00    1.3     294.6         2047.67      0.39N    1.07W     11.47S     14.45W
  2098.00    1.2     299.7         2097.66      0.46N    0.97W     11.01S     15.42W
  2148.00    1.0     309.2         2147.64      0.54N    0.91W     10.47S     16.33W
  2198.00    1.2     308.7         2197.63      0.63N    0.77W      9.84S     17.11W
  2248.00    1.2     306.6         2247.62      0.65N    0.83W      9.19S     17.94W
  2298.00    1.2     309.2         2297.60      0.66N    0.82W      8.52S     18.75W
  2348.00    0.9     317.9         2347.59      0.62N    0.73W      7.90S     19.48W
  2398.00    0.8     331.8         2397.58      0.59N    0.45W      7.31S     19.94W
  2448.00    0.6     335.5         2447.57      0.55N    0.29W      6.76S     20.23W
                                                                  PAGE   2
  OREGON NATURAL GAS CORP.
  OM 12 C-3


                                                         COORDINATES
            DRIFT    DRIFT                          STATION            TOTAL
   DEPTH    ANGLE   AZIMUTH            T.V.D.     N-S      E-W        N-S       E-W

  2498.00    0.4     318.9         2497.57      0.37N    0.23W      6.39S     20.46W
  2548.00    0.1     319.3         2547.56      0.16N    0.18W      6.22S     20.64W
  2598.00    0.2     240.3         2597.56      0.00S    0.14W      6.23S     20.79W
  2648.00    0.3     213.9         2647.55      0.14S    0.15W      6.37S     20.93W
  2698.00    0.3     195.5         2697.55      0.23S    0.11W      6.59S     21.05W
  2748.00    0.1     164.5         2747.55      0.23S    0.01W      6.82S     21.05W
  2798.00    0.2     226.1         2797.54      0.16S    0.03W      6.98S     21.09W
  2848.00    0.2     221.3         2847.54      0.13S    0.12W      7.11S     21.20W
  2898.00    0.3     235.7         2897.53      0.16S    0.19W      7.27S     21.39W
  2948.00    0.4     230.5         2947.53      0.17S    0.21W      7.44S     21.60W
  2998.00    0.5     229.8         2997.52      0.31S    0.34W      7.75S     21.94W
  3048.00    0.7     210.4         3047.52      0.34S    0.31W      8.09S     22.25W
  3098.00    0.9     196.2         3097.51      0.60S    0.29W      8.68S     22.54W
  3148.00    0.9     166.8         3147.50      0.70S    0.04W      9.38S     22.59W


THE FIRST POINT INFORMATION:
   498.00    0.6     316.5          498.00      0.00N    0.00E      0.00N      0.00E
THE LAST POINT INFORMATION:
  3148.00    0.9     166.8         3147.50      0.70S    0.04W      9.38S     22.59W


EAST WEST DEVIATION   =    22.59 W
NORTH SOUTH DEVIATION =     9.38 S
DIRECTION = S 67.45 W
DISTANCE  =   24.46 FT
```

DresserAtlas DRESSER