FORM 925227 Rev (09/81)

Dresser Atlas

DRESSER

Hi Resolution
4-ARM **Diplog**

FILE NO.

API NO.

5'' 100'

COMPANY OREGON NATURAL GAS CORPORATION

WELL CM 11A 10

FIELD MIST

COUNTY COLUMBIA STATE OREGON

LOCATION: 10[illegible]' S. & [illegible]5' W. FR.
THE N.E. CORNER OF:

SEC 10 TWP 6N RGE 5W

Other Services
DIFL
BHC AL
CDL CN GR

Permanent Datum GL Elev [illegible].0'
Log Measured from KB 11.0 Ft. Above Permanent Datum
Drilling Measured from KB

Elev
KB 911.0'
DF
GL [illegible].0'

Confidential

Date	12 16 86				
Run No.	ONE				
Service Order	22807				
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.	5 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

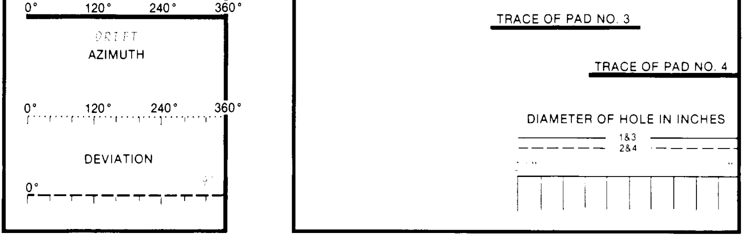
In making interpretations of logs our employees will give Customer the benefit of their best judgment, but since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or the correctness of any interpretation. We shall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

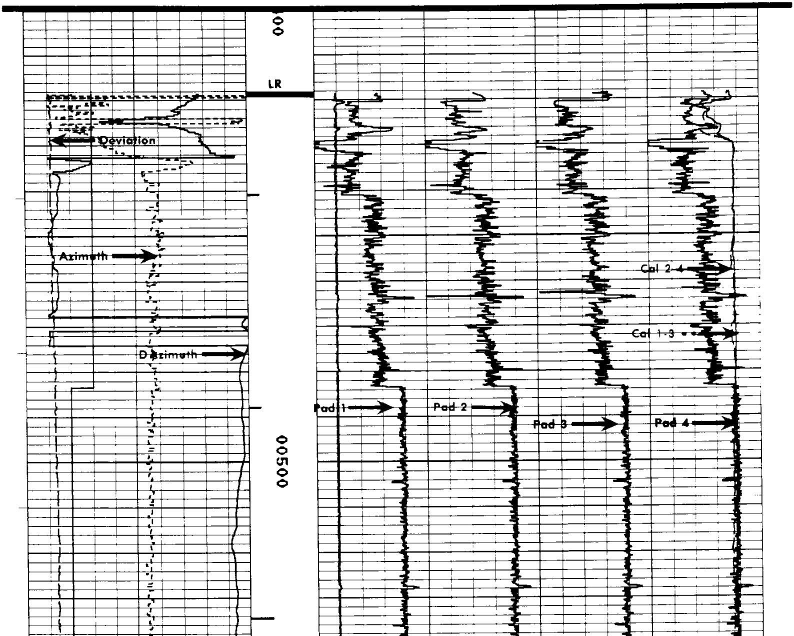
ORIENTATION	DEPTHS	FOCUSED CORRELATION CURVES AND CALIPERS
AZIMUTH		TRACE OF PAD NO. 1 TRACE OF PAD NO. 2

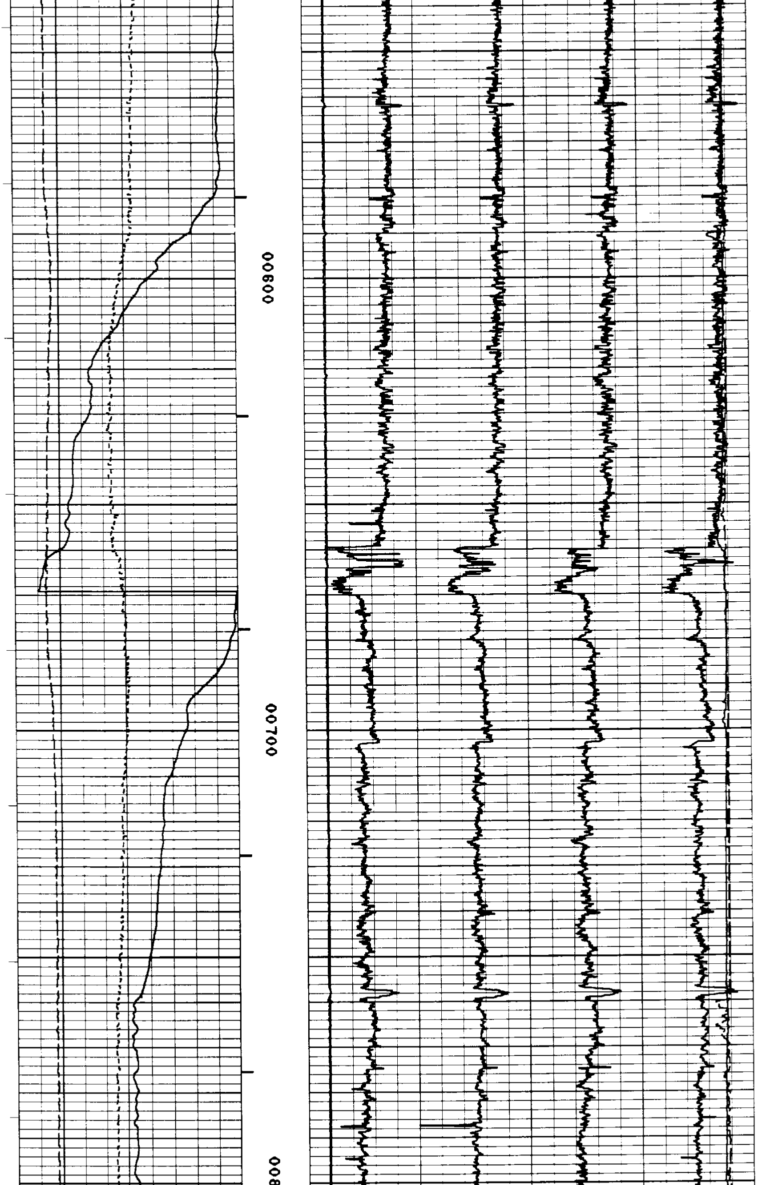


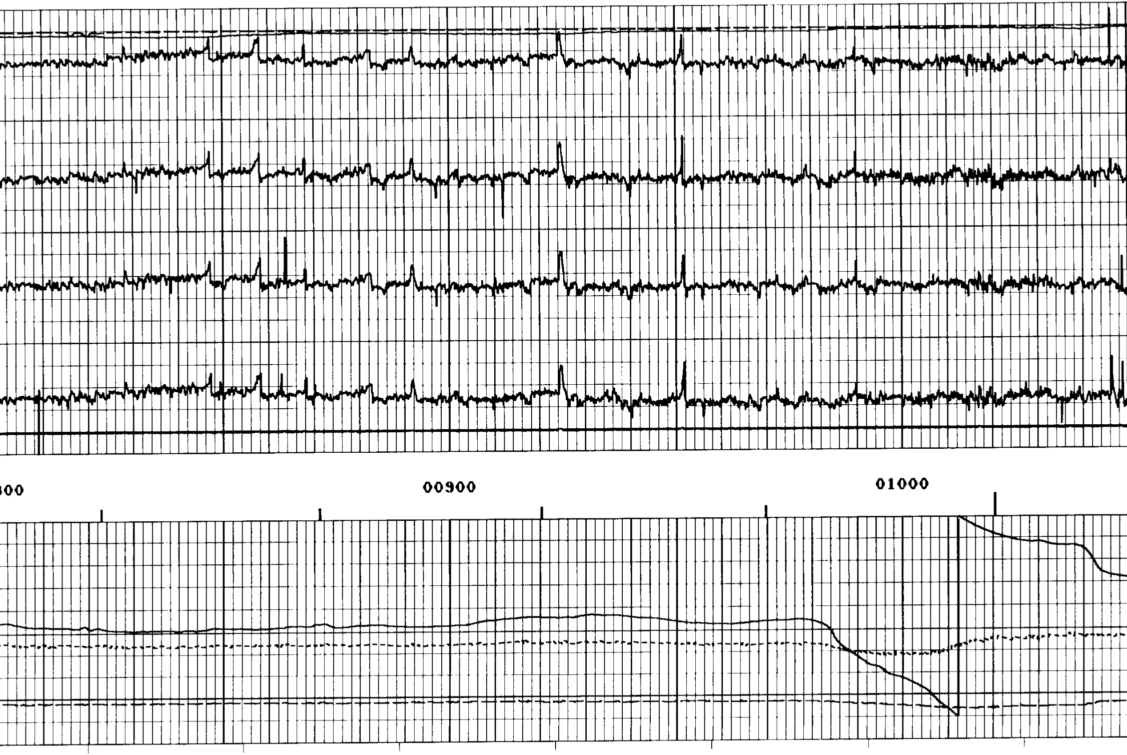
OREGON NATURAL GAS CORP.

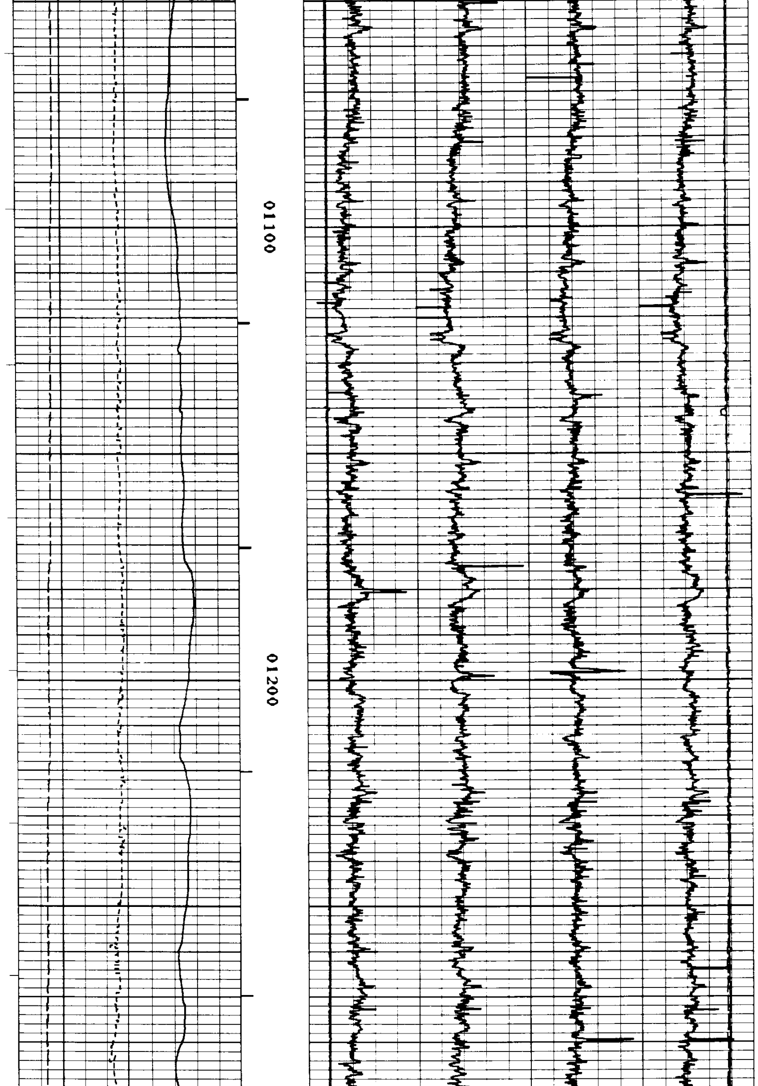
OM 41A-10"

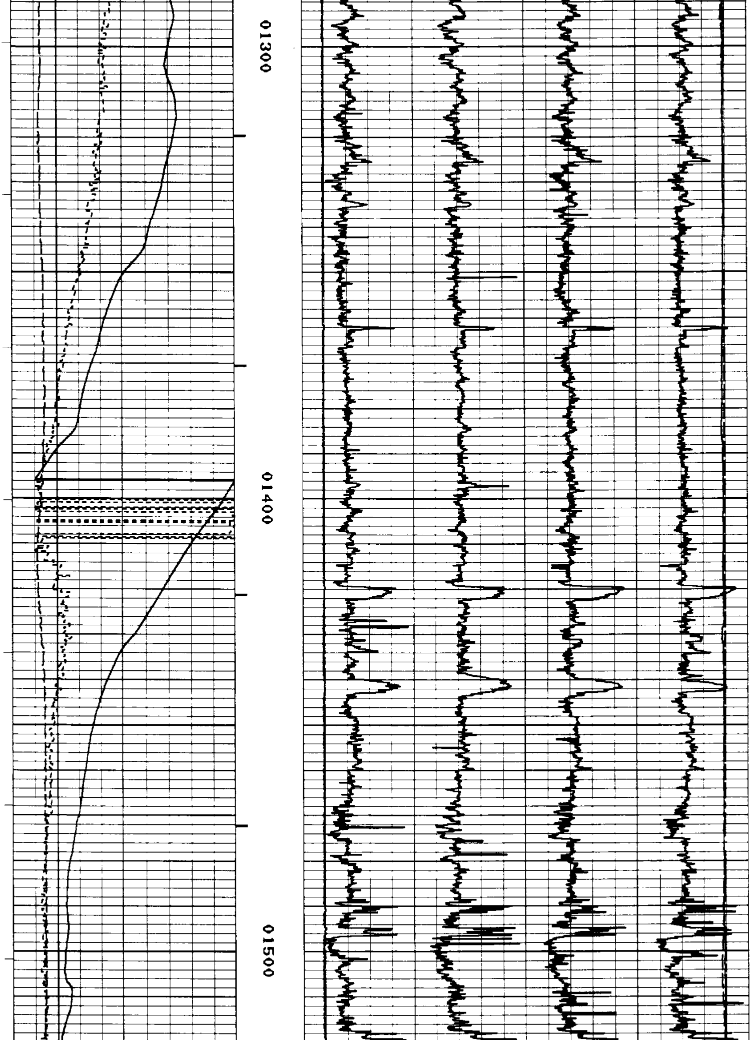
SERVICE DL3508 FILE 4

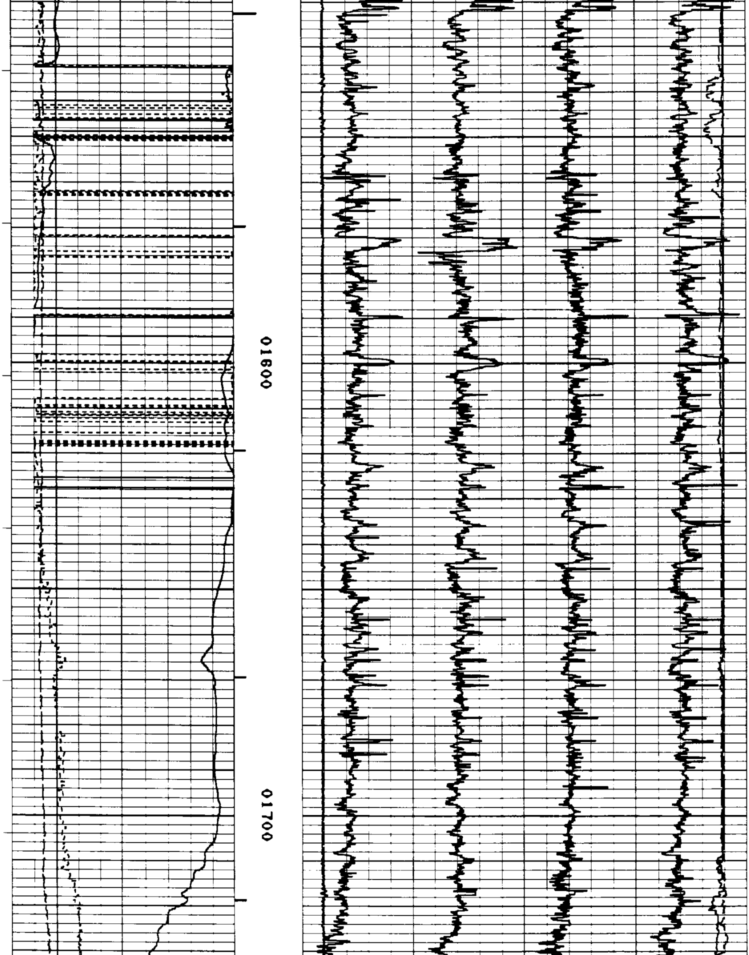


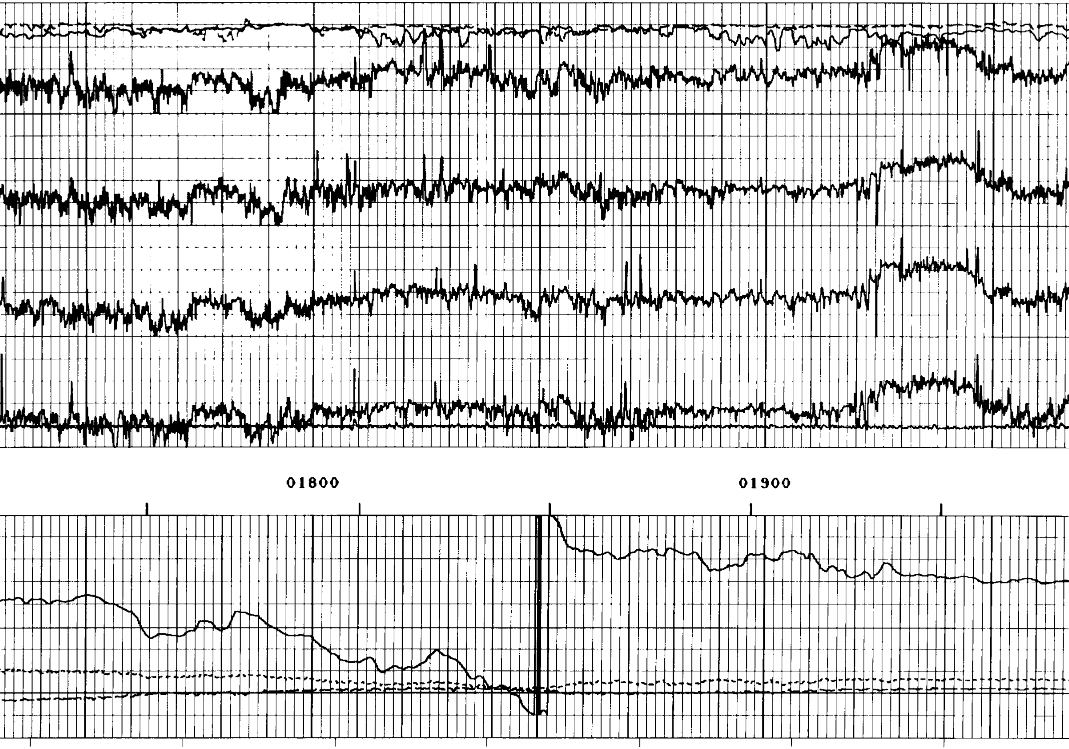


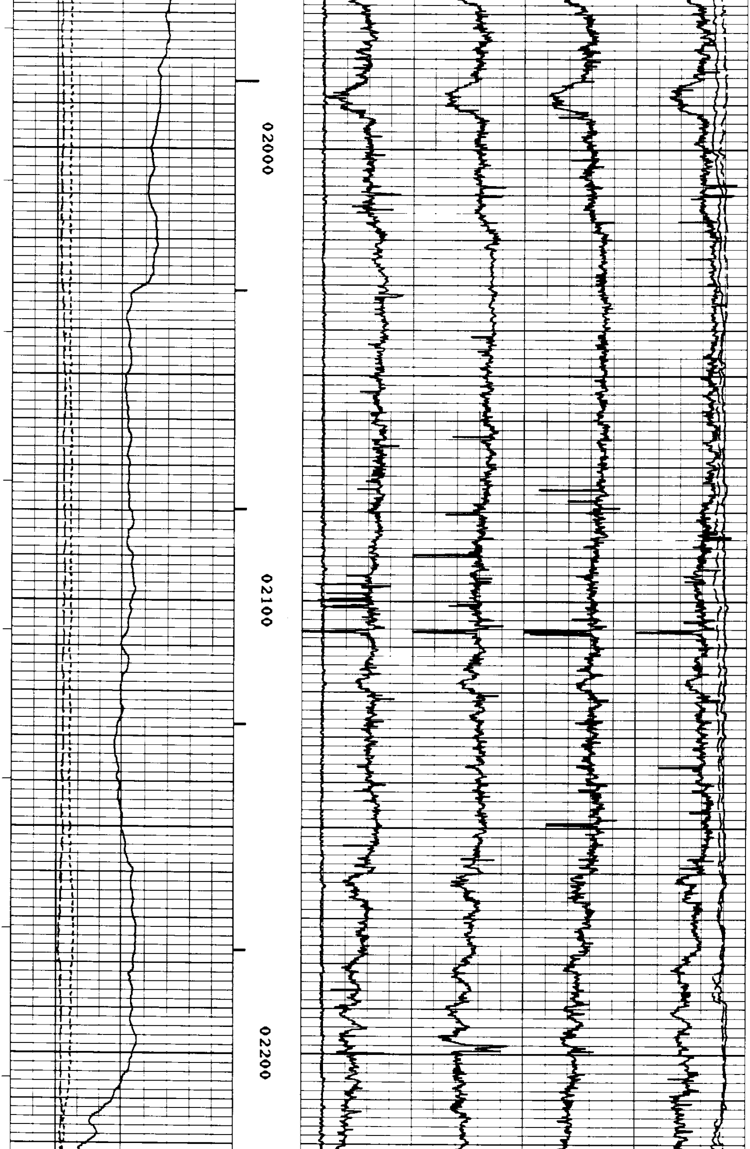


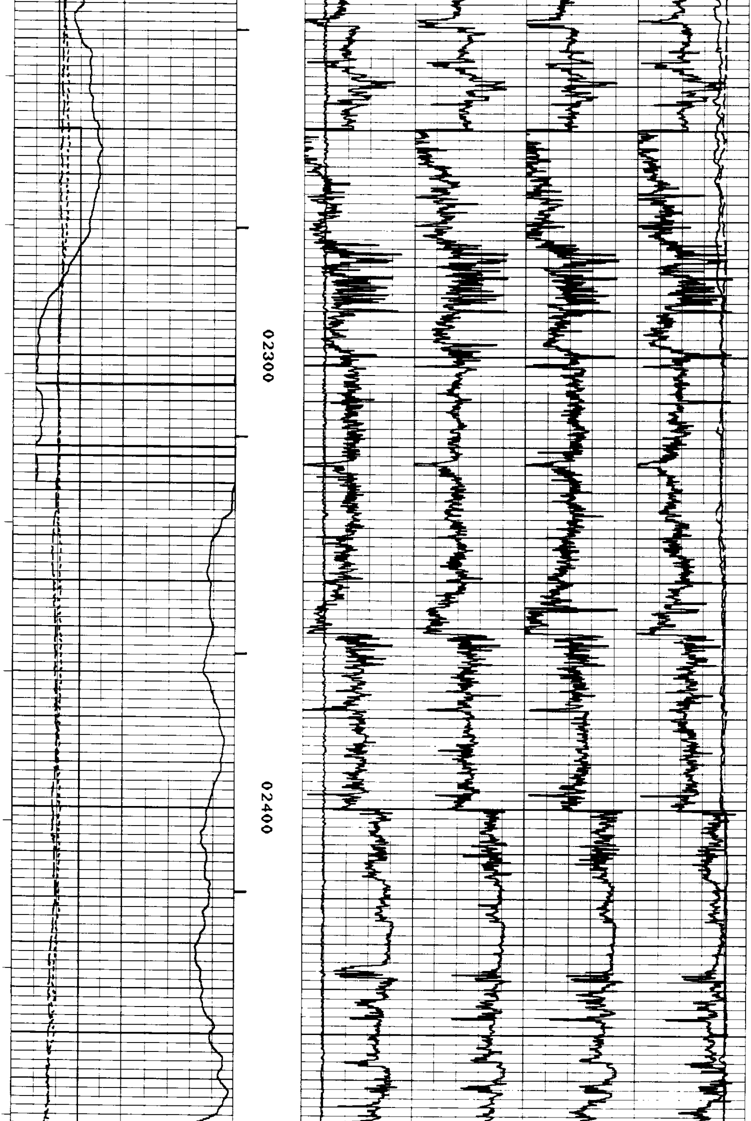


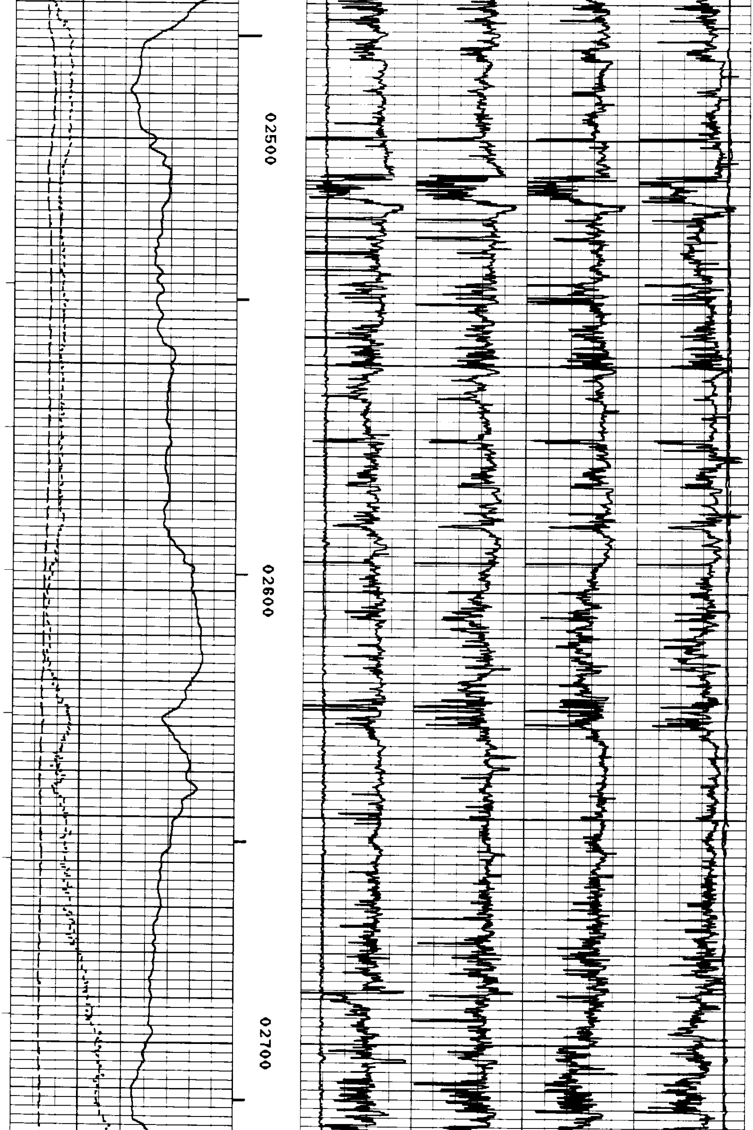


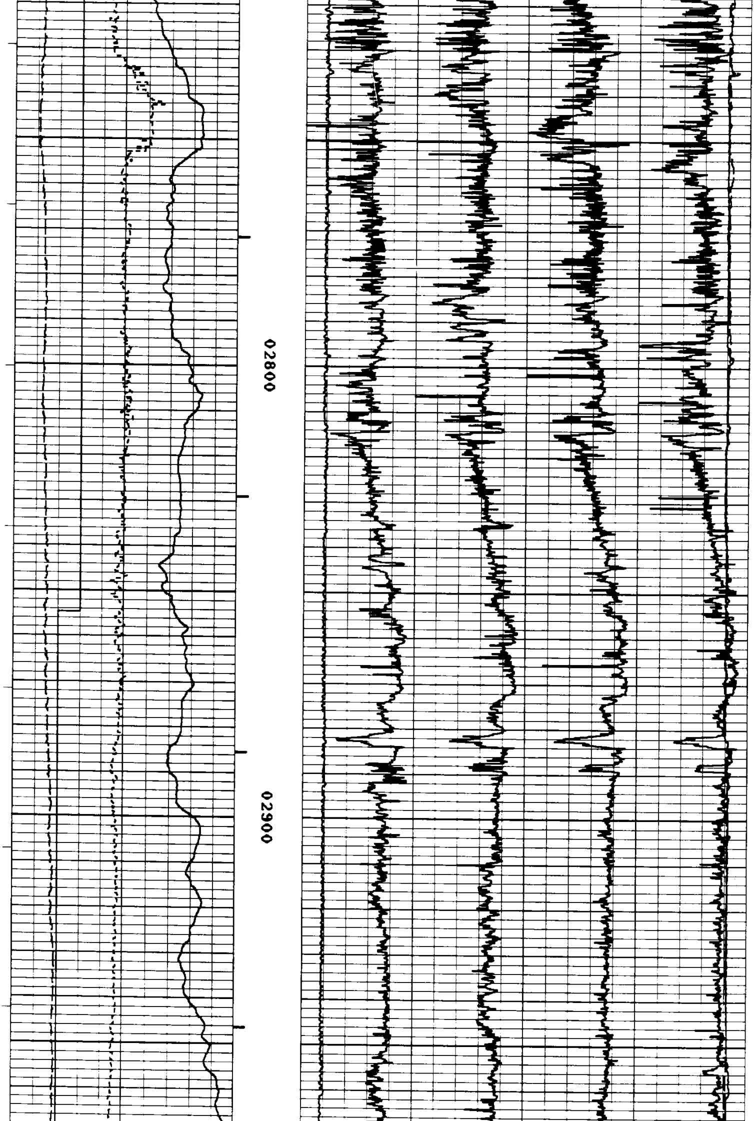


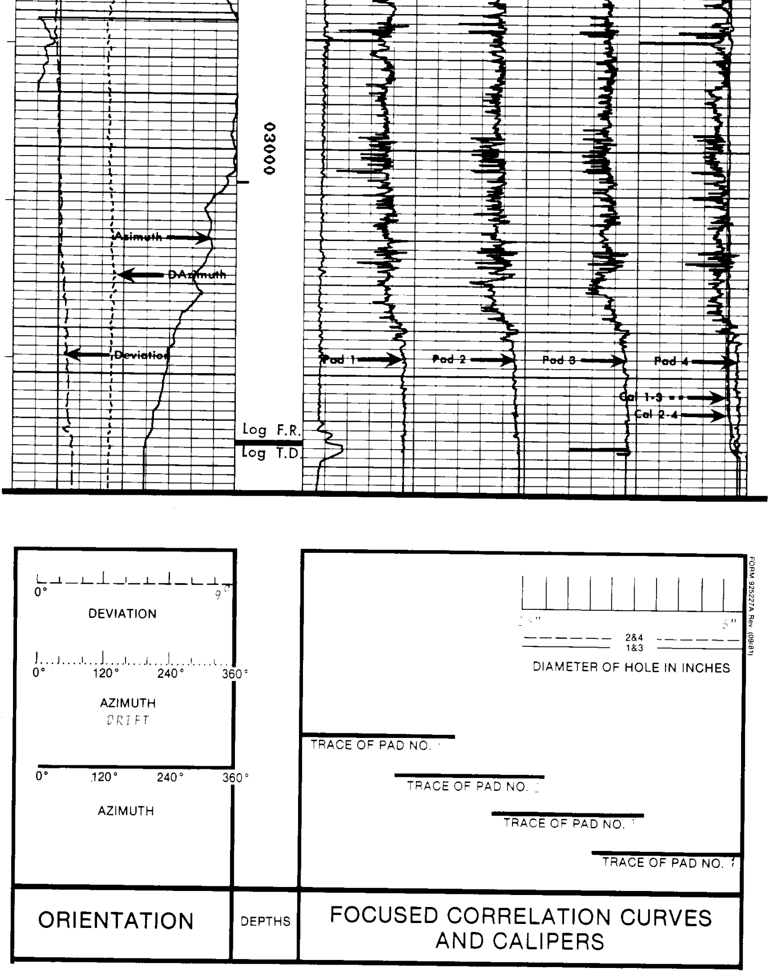










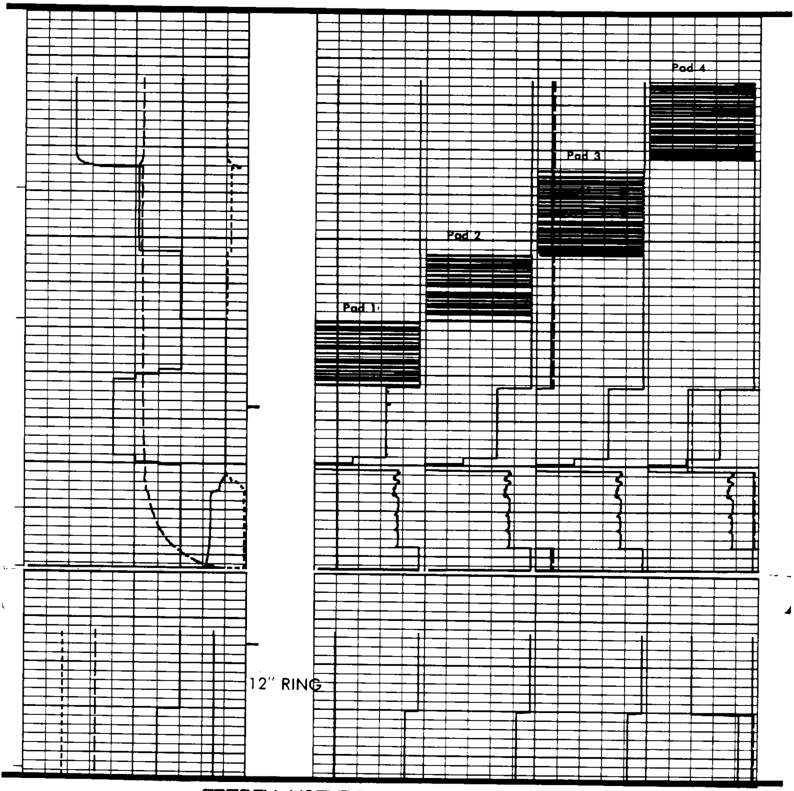


OREGON NATURAL GAS CORP.

OM 41A-10'

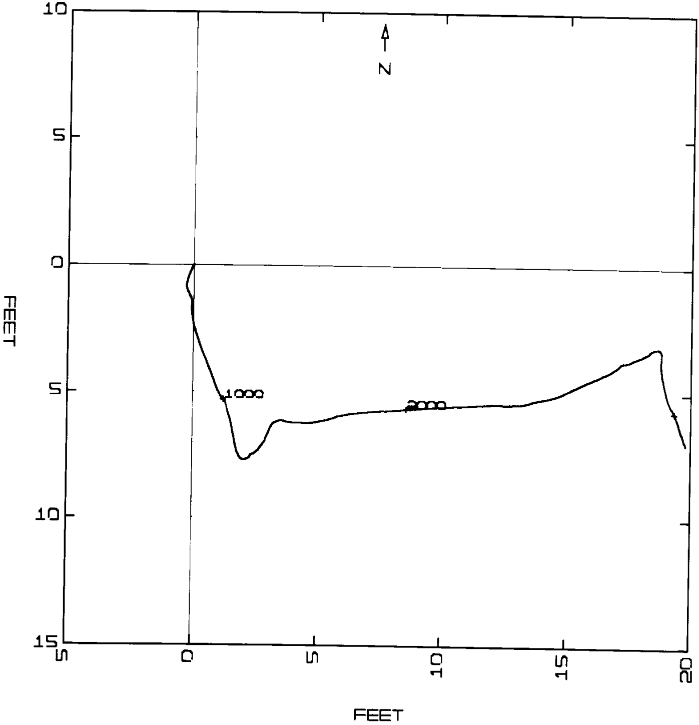
SERVICE DL3508 FILE 2

Calibration Before Survey



COMPANY	OREGON NATURAL GAS CORP.
WELL	OM 41A-10
FIELD	MIST
COUNTY	COLUMBIA
COMMENTS	

FINAL EAST-WEST DEVIATION	19.80 E
FINAL NORTH-SOUTH DEVIATION	6.96 S
FINAL DISTANCE	20.99 FT
FINAL DEVIATION DIRECTION	S 70.61 E

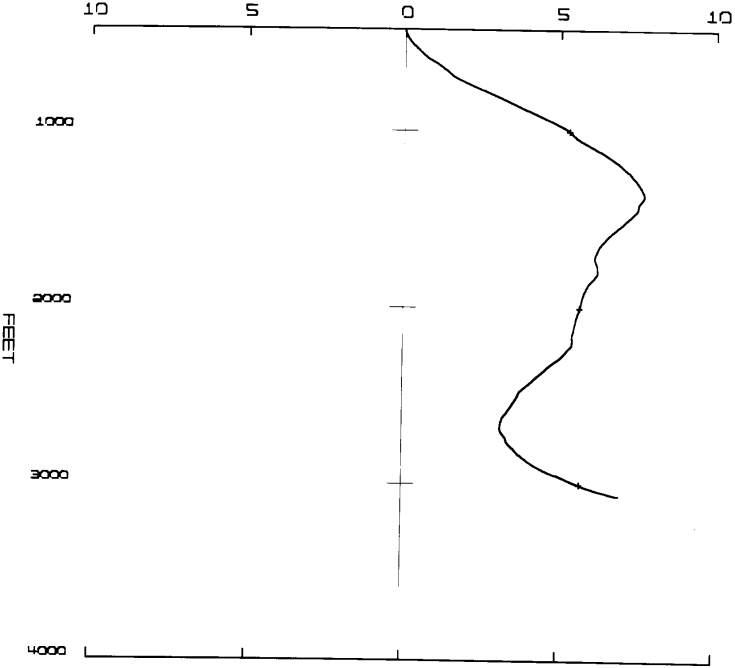


PLAN VIEW

0

FEET

180

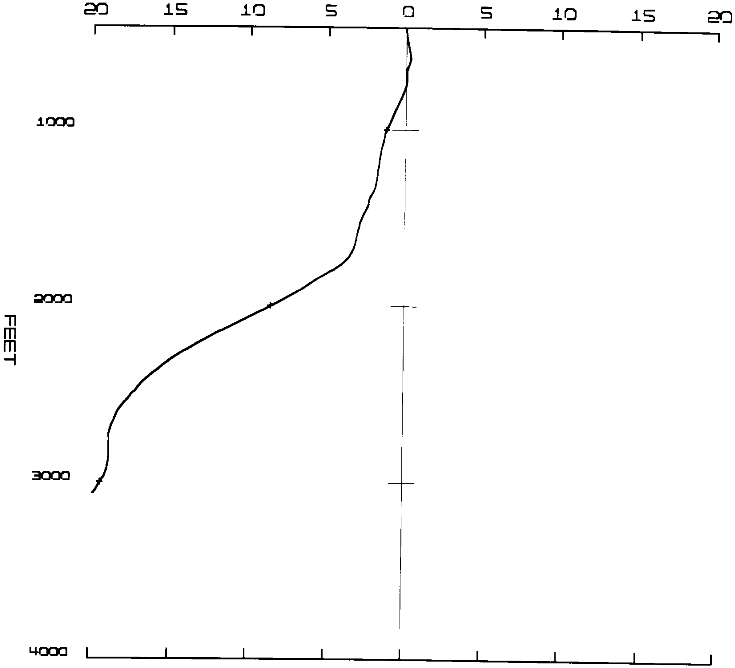


SIDE VIEW

90

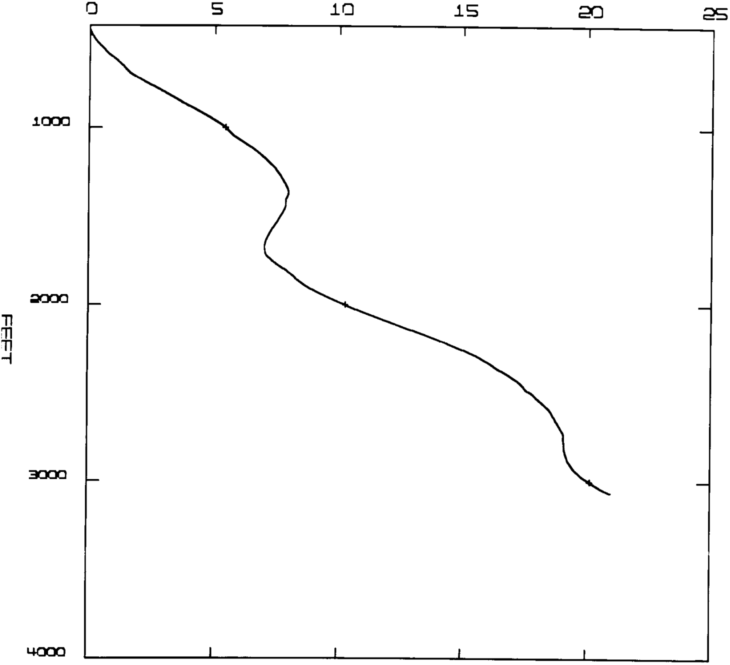
FEET

270



SIDE VIEW

FEET



DEPTH VS. DRIFT

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ISTANCE  =   20.99 FT
IRECTION = S 70.62 E
ORTH SOUTH DEVIATION =    6.97 S
AST WEST DEVIATION   =   19.80 E


3062.00   1.5    156.2        3061.63     0.88S   0.32E     6.97S    19.80E
HE LAST POINT INFORMATION:
 422.00   0.1     77.1         422.00     0.00N   0.00E     0.00N     0.00E
HE FIRST POINT INFORMATION:
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3062.00    1.5     156.2         3061.63      0.83S     0.32E       6.97S      19.80E
3022.00    1.1     157.3         3021.64      0.76S     0.36E       6.09S      19.49E
2972.00    0.8     156.4         2971.65      0.68S     0.20E       5.33S      19.12E
2922.00    0.7     168.7         2921.66      0.54S     0.11E       4.65S      18.92E
2872.00    0.5     174.5         2871.66      0.38S     0.03E       4.10S      18.81E
2822.00    0.4     178.0         2821.67      0.29S     0.01W       3.72S      18.78E
2772.00    0.3     188.3         2771.67      0.17S     0.00W       3.44S      18.79E
2722.00    0.3     156.6         2721.68      0.13S     0.17E       3.27S      18.79E
2672.00    0.3      33.1         2671.68      0.07N     0.24E       3.14S      18.62E
2622.00    0.3      60.9         2621.68      0.20N     0.30E       3.21S      18.39E
2572.00    0.6      63.6         2571.69      0.19N     0.47E       3.41S      18.09E
2522.00    0.6      63.6         2521.69      0.15N     0.49E       3.61S      17.62E
2472.00    0.4      54.6         2471.70      0.34N     0.47E       3.76S      17.13E
2422.00    0.9      64.3         2421.71      0.33N     0.69E       4.10S      16.66E

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


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OREGON NATURAL GAS CORP.
                                                                  PAGE   2
2372.00    0.9      65.5         2371.71      0.33N     0.69E       4.42S      15.98E
2322.00    1.0      63.7         2321.72      0.39N     0.85E       4.74S      15.29E
2272.00    1.1      75.3         2271.73      0.24N     0.98E       5.13S      14.43E
2222.00    1.3      74.1         2221.75      0.06N     1.05E       5.38S      13.45E
2172.00    1.1      93.6         2171.78      0.04N     1.10E       5.44S      12.41E
2122.00    1.3      86.1         2121.78      0.07N     1.16E       5.48S      11.31E
2072.00    1.3      86.8         2071.79      0.09N     1.12E       5.55S      10.15E
2022.00    1.2      83.8         2021.81      0.08N     1.06E       5.64S       9.04E
1972.00    1.2      85.9         1971.82      0.07N     1.03E       5.72S       7.98E
1922.00    1.1      85.5         1921.83      0.13N     0.89E       5.79S       6.95E
1872.00    1.0      79.7         1871.84      0.23N     0.92E       5.92S       6.06E
1822.00    1.2      79.0         1821.86      0.06N     0.92E       6.15S       5.14E
1772.00    0.9      91.2         1771.87      0.08S     0.65E       6.22S       4.22E
1722.00    0.5      99.8         1721.87      0.08N     0.31E       6.14S       3.58E
1672.00    0.3      55.1         1671.88      0.19N     0.16E       6.22S       3.27E
1622.00    0.3      23.8         1621.88      0.27N     0.11E       6.41S       3.11E
1572.00    0.4      21.2         1571.89      0.33N     0.15E       6.68S       3.00E
1522.00    0.4      32.3         1521.89      0.32N     0.24E       7.00S       2.85E
1472.00    0.5      41.6         1471.90      0.18N     0.27E       7.32S       2.61E
1422.00    0.1      81.0         1421.90      0.17N     0.17E       7.50S       2.35E
1372.00    0.4      65.0         1371.91      0.05S     0.25E       7.67S       2.17E
1322.00    0.2     132.0         1321.91      0.19S     0.11E       7.62S       1.92E
1272.00    0.2     156.1         1271.92      0.26S     0.07E       7.43S       1.81E
1222.00    0.4     166.6         1221.92      0.35S     0.07E       7.17S       1.73E
1172.00    0.5     167.8         1171.93      0.43S     0.10E       6.82S       1.67E
1122.00    0.5     166.3         1121.93      0.50S     0.13E       6.39S       1.57E
1072.00    0.6     161.0         1071.94      0.45S     0.12E       5.89S       1.43E
1022.00    0.4     164.7         1021.94      0.38S     0.25E       5.44S       1.31E
 972.00    0.7     153.1          971.95      0.58S     0.24E       5.06S       1.06E
 922.00    0.7     160.8          921.95      0.63S     0.25E       4.47S       0.82E
 872.00    0.8     157.5          871.96      0.62S     0.26E       3.85S       0.57E
 822.00    0.8     159.4          821.96      0.64S     0.23E       3.23S       0.31E
 772.00    0.8     160.1          771.97      0.64S     0.14E       2.59S       0.08E
 722.00    0.7     174.2          721.97      0.50S     0.01E       1.95S       0.05W
 672.00    0.4     176.5          671.98      0.36S     0.13E       1.45S       0.07W
 622.00    0.5     156.2          621.98      0.46S     0.06E       1.10S       0.20W
 572.00    0.4     195.3          571.99      0.31S     0.10W       0.64S       0.26W
 522.00    0.4     202.3          521.99      0.24S     0.11W       0.33S       0.16W
 472.00    0.2     203.9          472.00      0.09S     0.05W       0.09S       0.05W
 422.00    0.1      77.1          422.00      0.00N     0.00E       0.00N       0.00E

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


OM 41A-10"
OREGON NATURAL GAS CORP.
                                                                  PAGE   1









ISTANCE  =     0.00 FT
IRECTION = N  0.00 E
ORTH SOUTH DEVIATION =     0.00 N
AST WEST DEVIATION   =     0.00 E
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   0.000331.73357840.8          15.03      0.0033330.000   -04.000   -07.00
E LAST POINT INFORMATION:
   0.00   0.03754425.0           0.00      0.008   0.000     0.00     -0.008
F FIRST POINT INFORMATION:
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DresserAtlas DRESSER