FORM 925227 Rev. (09/81)

Dresser Atlas

DRESSER

Hi Resolution
4-ARM Diplog

FILE NO.

API NO.

5" 100'

COMPANY ORLGON NATURAL GAS CORPORATION

WELL OM 32 B-11

FIELD MIST

COUNTY COLUMBIA STATE ORLGON

LOCATION: 1946.2' W. & 1871.1' S. FROM N.E. CORNER OF:

SEC 11 TWP 6N RGE 5W

Other Services
DIFL
BHC/AL
CDLC/CN/GR

Permanent Datum GL Elev. 691.4'

Log Measured from KB , 11.5 Ft. Above Permanent Datum

Drilling Measured from KB

Elev.
KB 702.9'
DF
GL 691.4'

Date	1-30-87			
Run No.	ONL			
Service Order	22880			
Depth — Driller	3205'			
Depth — Logger	3196'			
Bottom Logged Interval	3194'			
Top Logged Interval	458'			
Casing — Driller	8 5/8" @ 465'	@	@	@
Casing — Logger	458'			
Bit Size	7 7/8"			
Type Fluid in Hole	GEL LIGNO			
Density and Viscosity	9.4 52			
pH and Fluid Loss	9.5 5.0 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.84 @ 50 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.64 @ 50 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.33 @ 50 °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M M			
Rm @ BHT	1.34 @ 108 °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HRS.			
Max. Rec. Temp. Deg. F.	106 °F	°F	°F	°F
Equip. No. and Location	6406 SAC.			
Recorded By:	B. WELCH			
Witnessed By:	MR. MEYER			

TIGHT HOLE
[✓ YES] NO
P.B.

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.

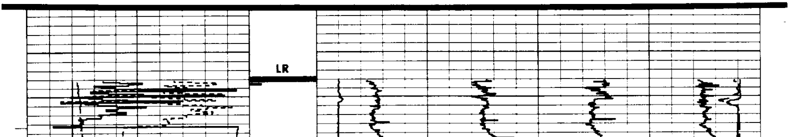
REMARKS RUN (1)

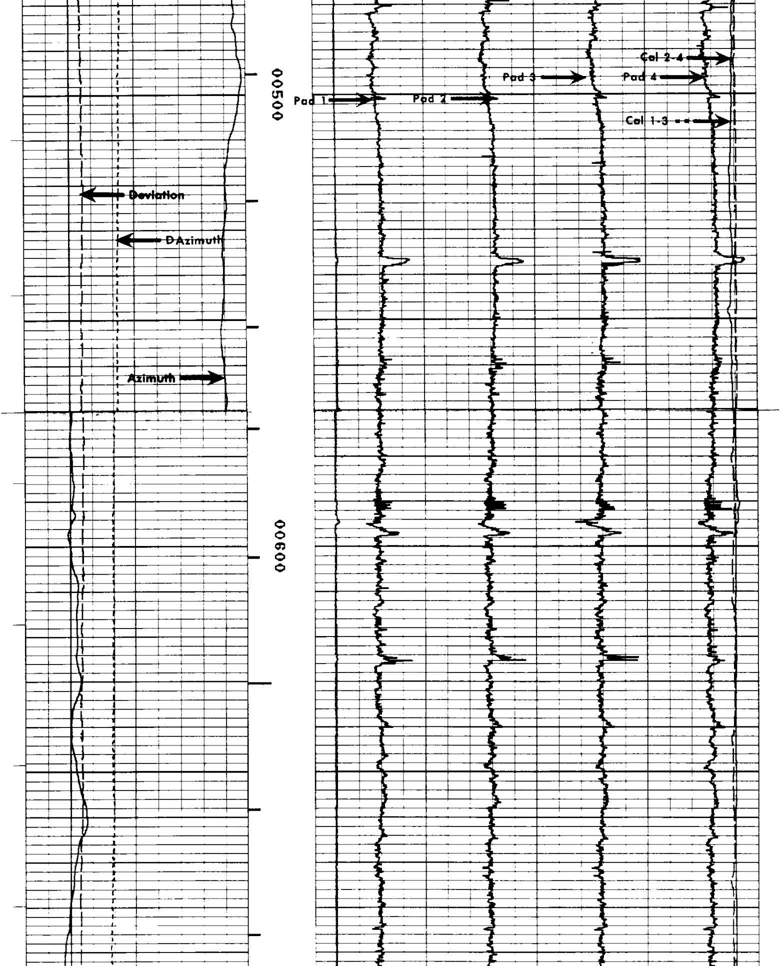
ORIENTATION	DEPTHS	FOCUSED CORRELATION CURVES AND CALIPERS
AZIMUTH 0° 120° 240° 360° *DRIFT* AZIMUTH 0° 120° 240° 360° DEVIATION 0° *9°*		TRACE OF PAD NO. 1 TRACE OF PAD NO. 2 TRACE OF PAD NO. 3 TRACE OF PAD NO. 4 DIAMETER OF HOLE IN INCHES 1&3 2&4 *26"* *6"*

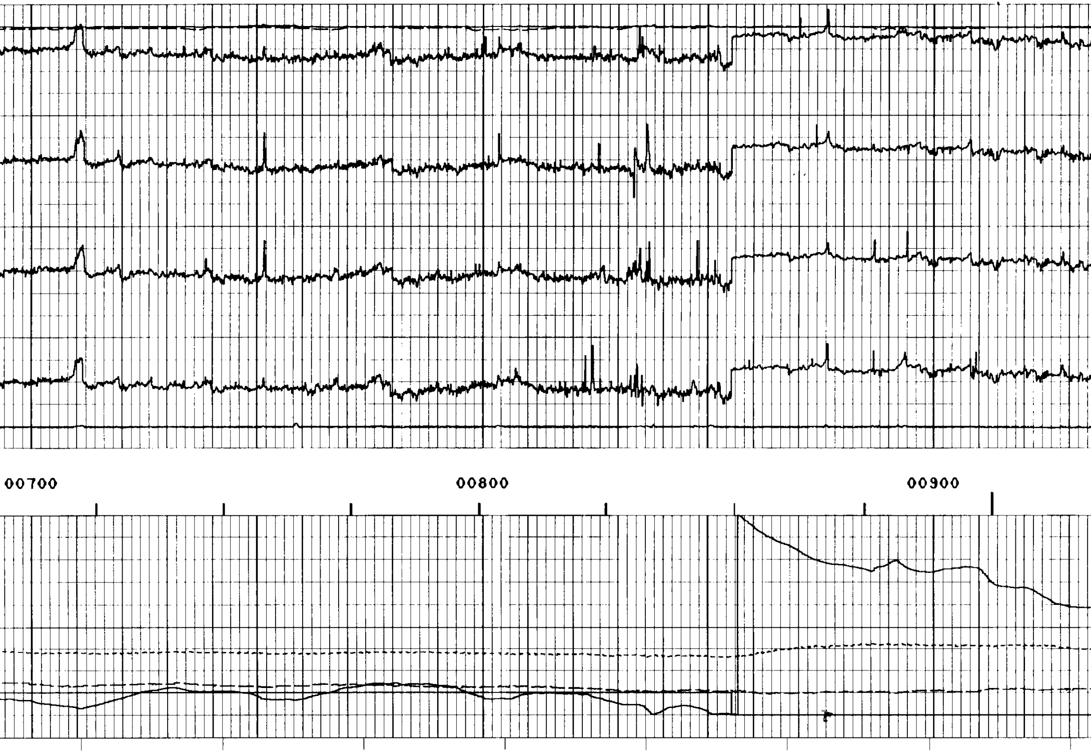
OREGON NATURAL GAS CORP

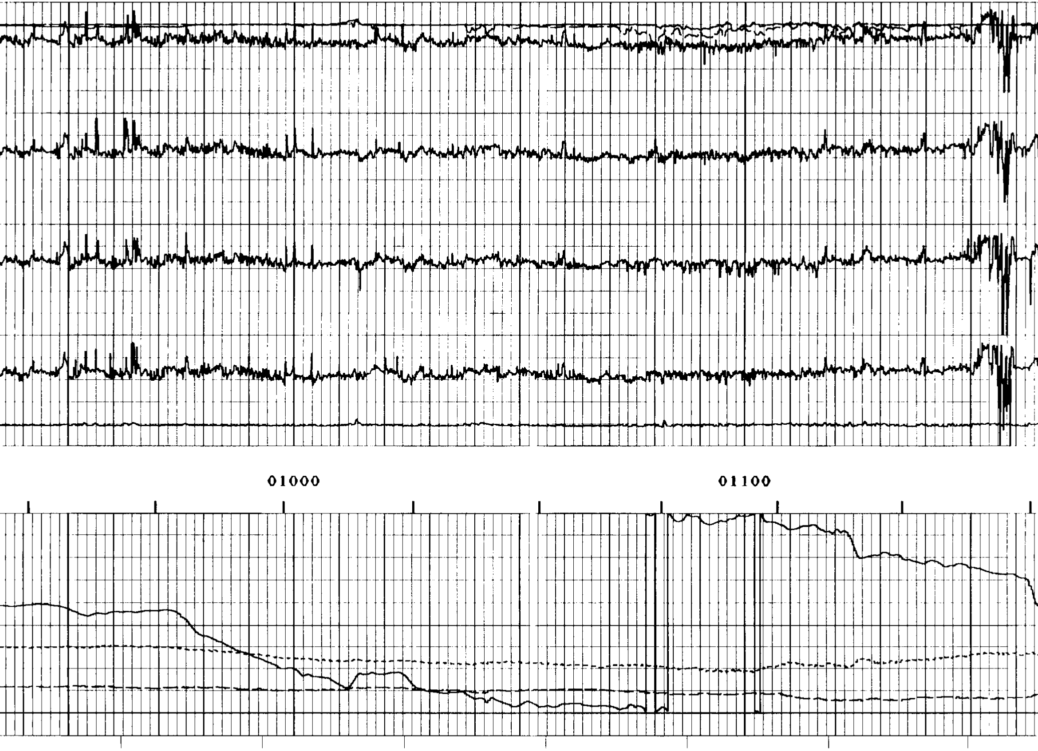
OM 32 B-11

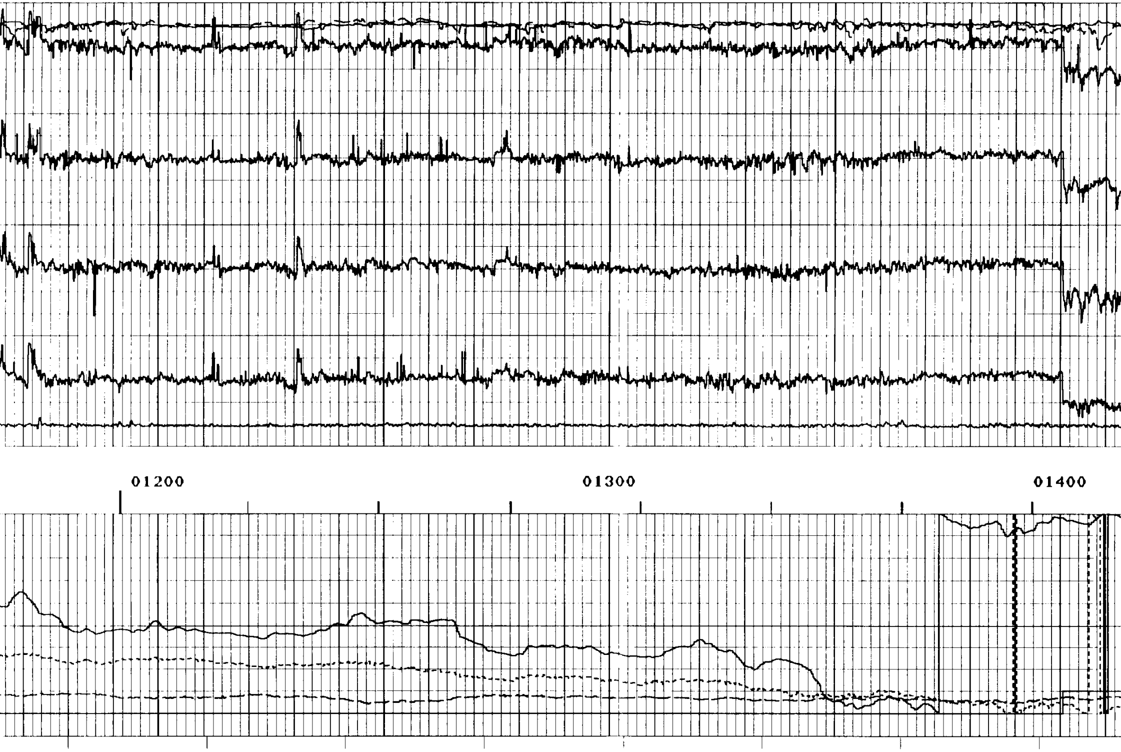
SERVICE [illegible] FILE 2

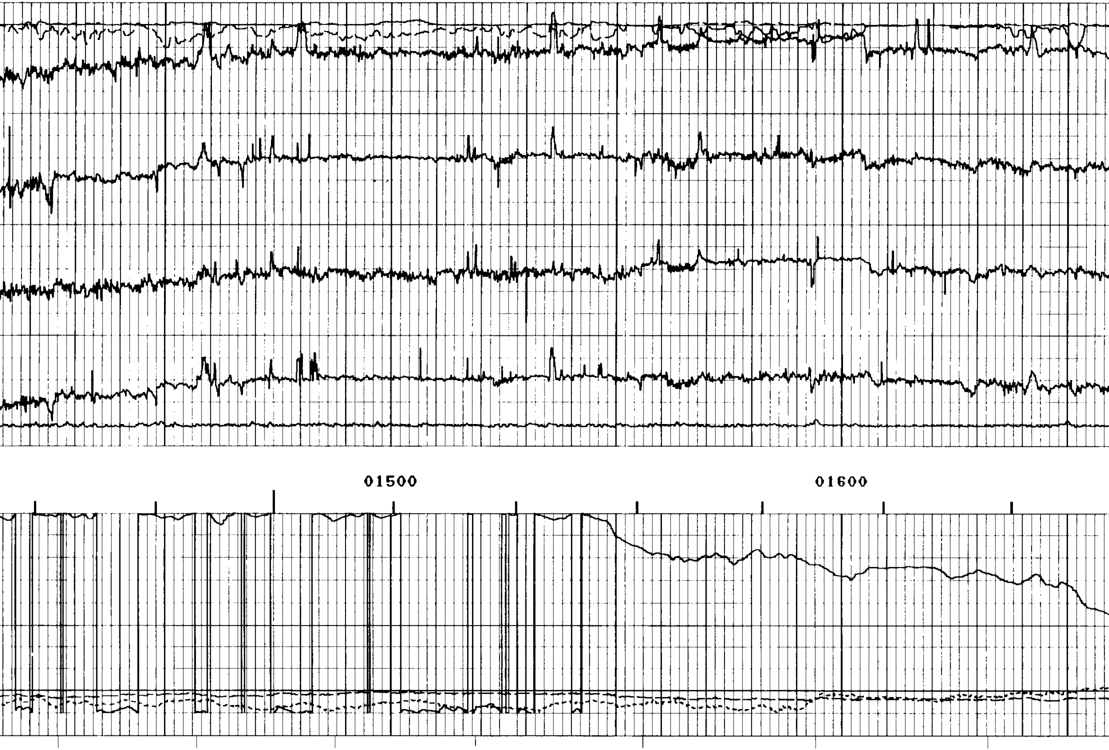


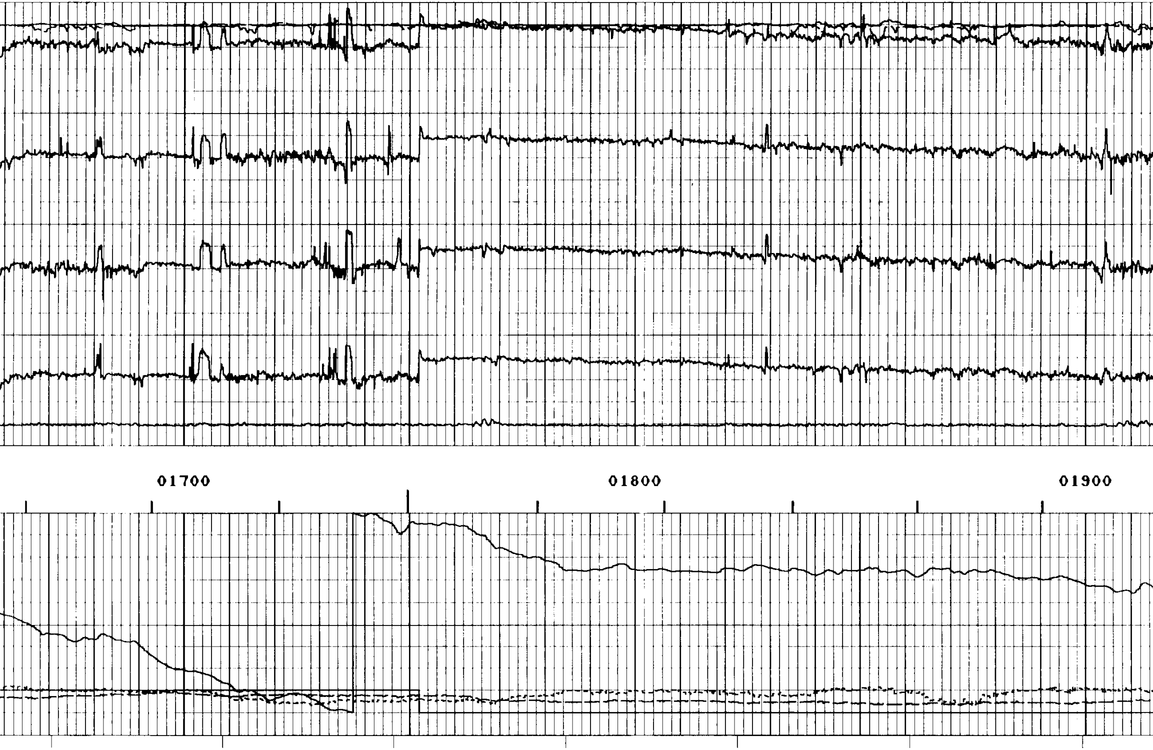


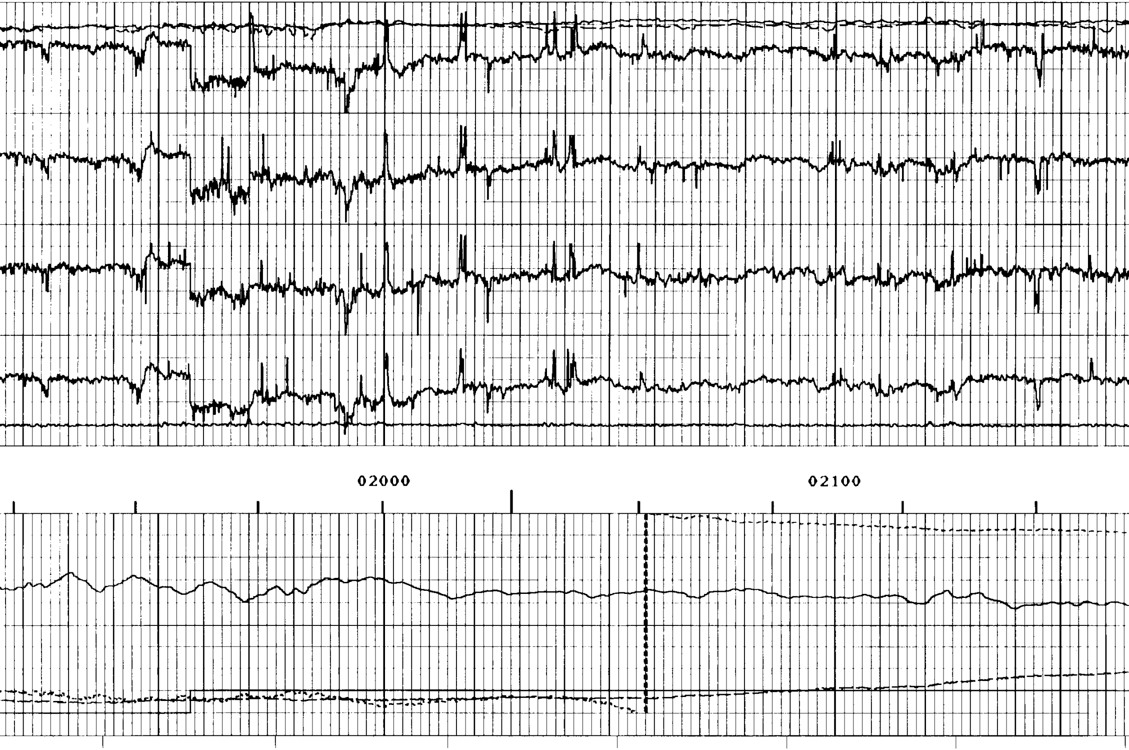


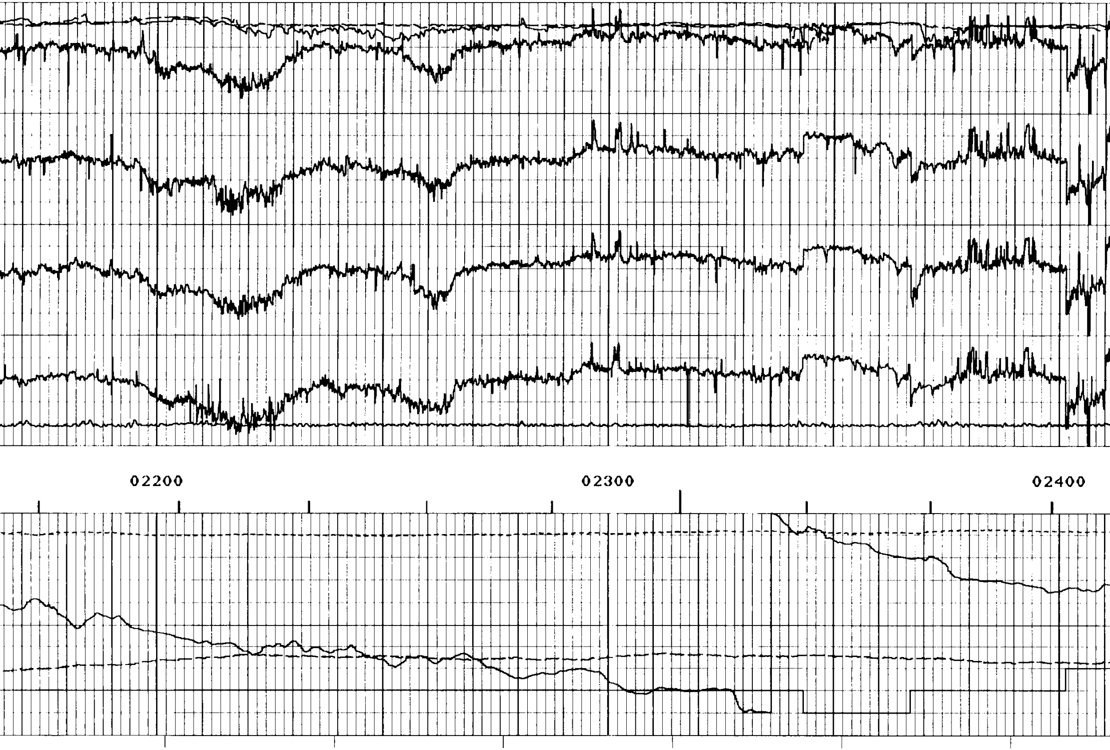


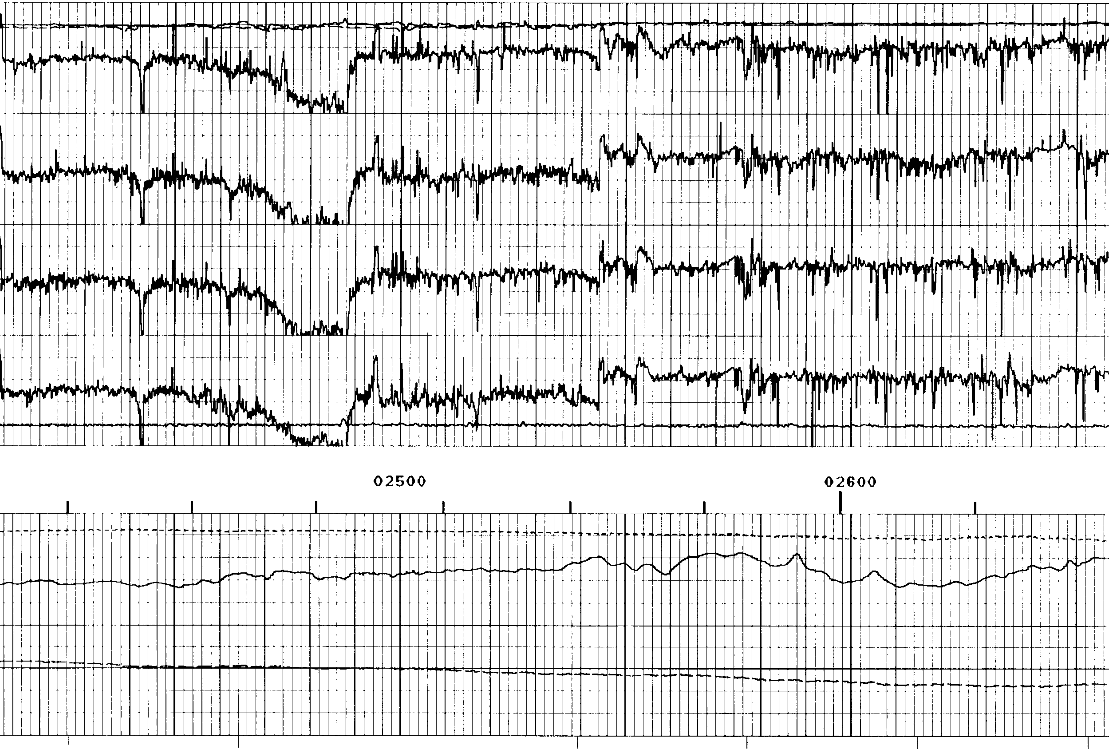


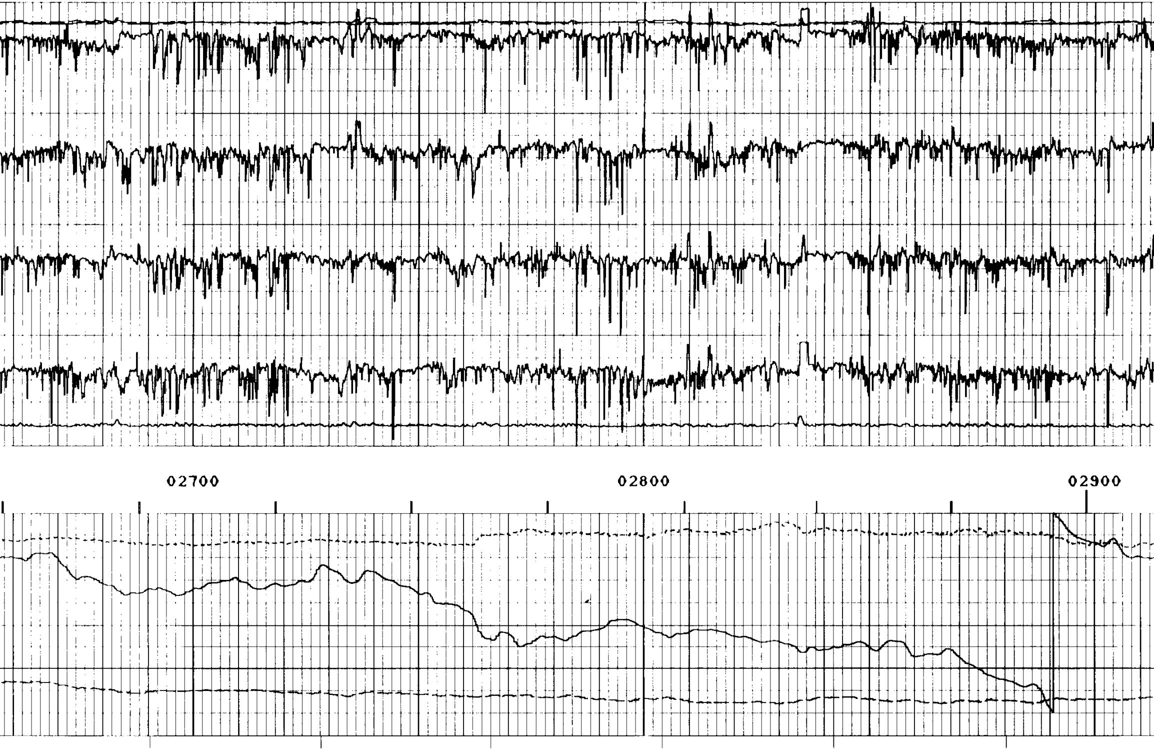


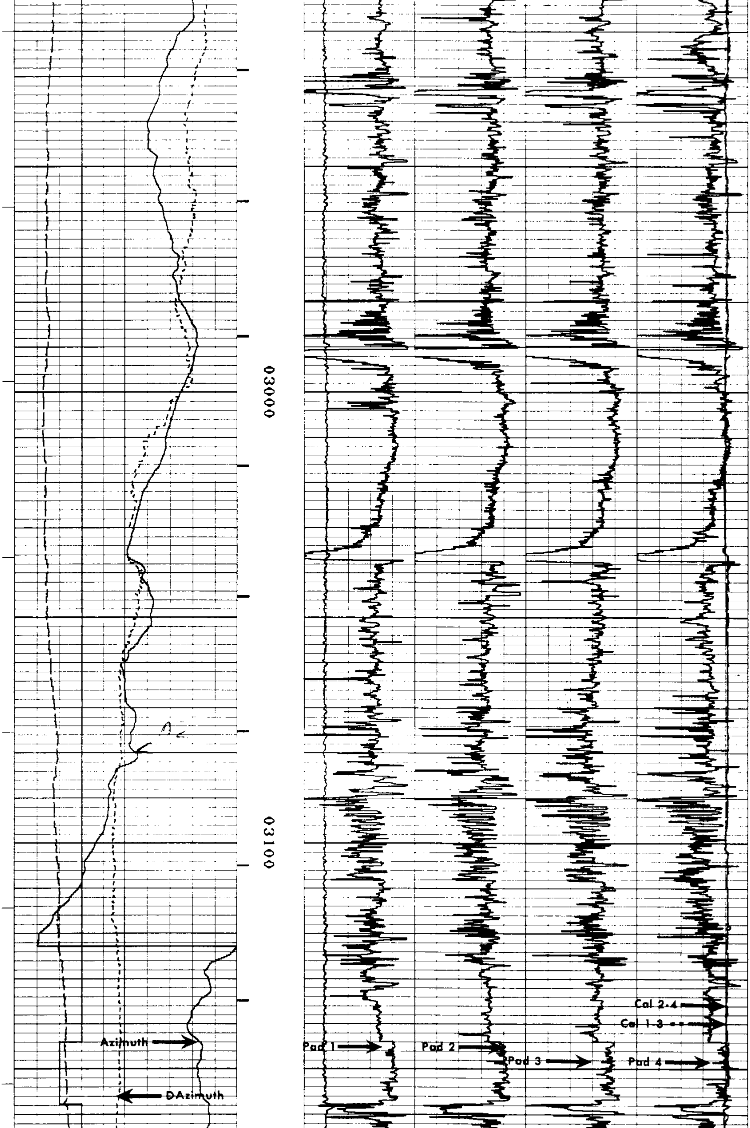


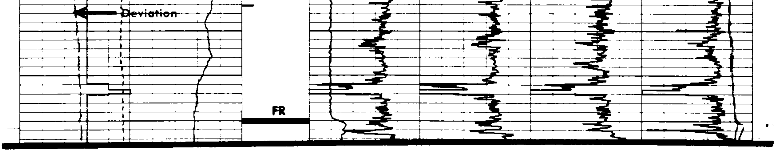


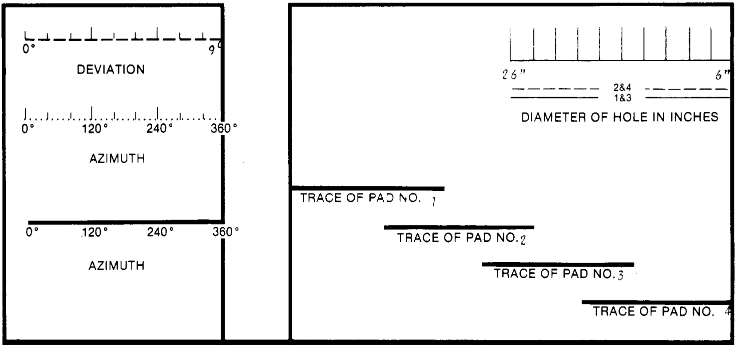












FORM 925227A Rev. (09/81)

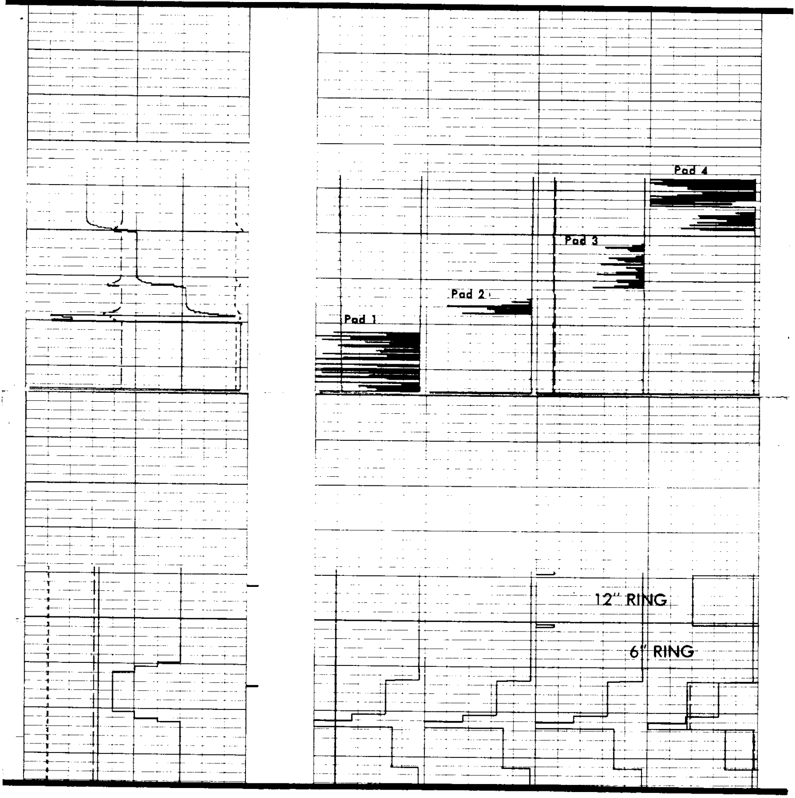
ORIENTATION	DEPTHS	FOCUSED CORRELATION CURVES AND CALIPERS

Company OREGON NATURAL GAS CORPORATION
Well OM 32 B-11
Field MIST
County COLUMBIA
State OREGON

Drillers T.D. 3205'
Log F.R. 3194'
Log T.D. 3196'
Elevations
K.B. 702.9' DF. - G.L. 691.4'

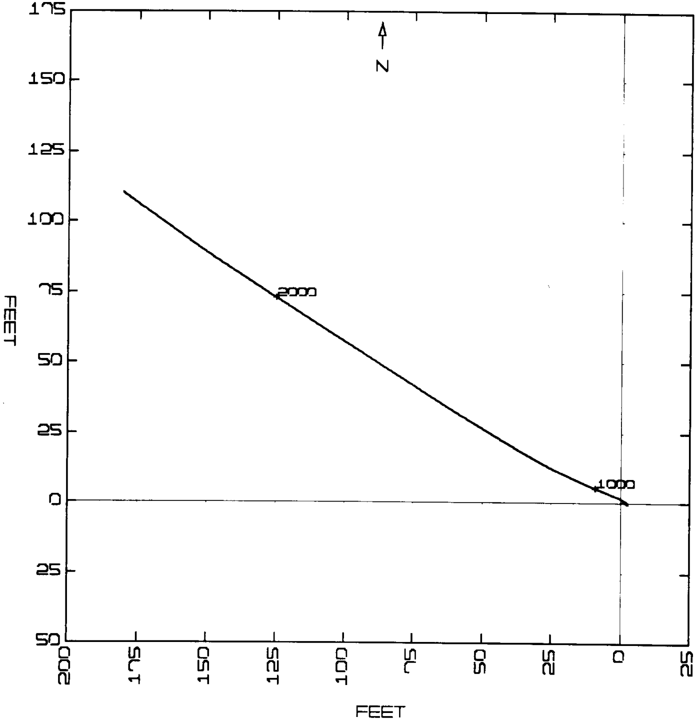
OREGON NATURAL GAS CORP
OM 32 B 11
SEC [illegible]

CALIBRATION

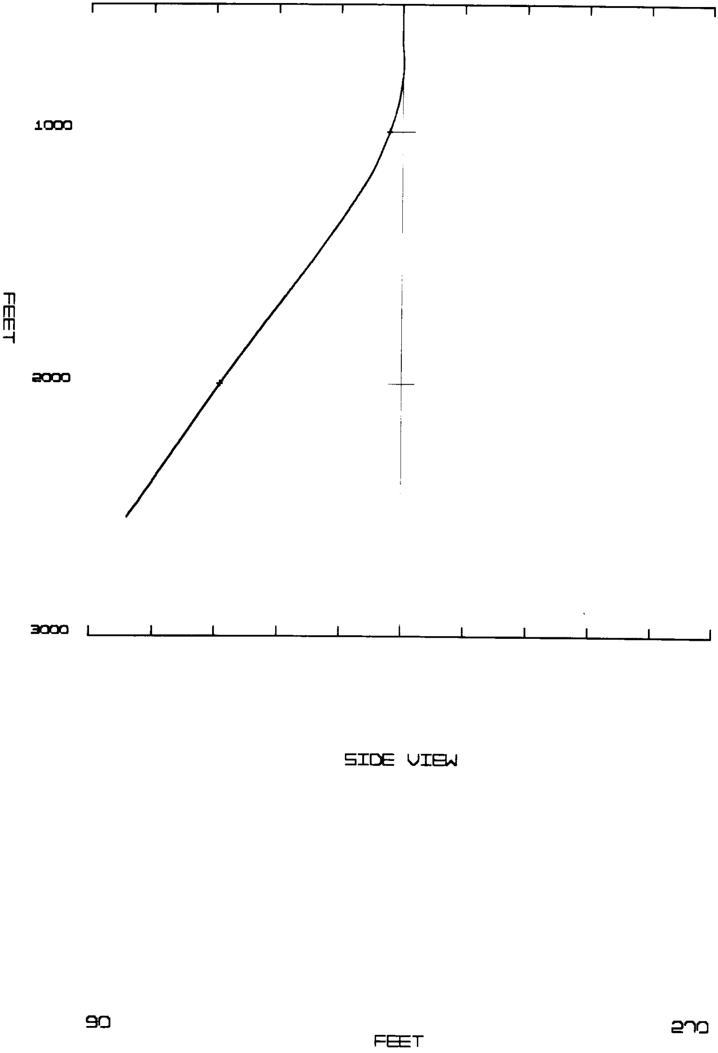


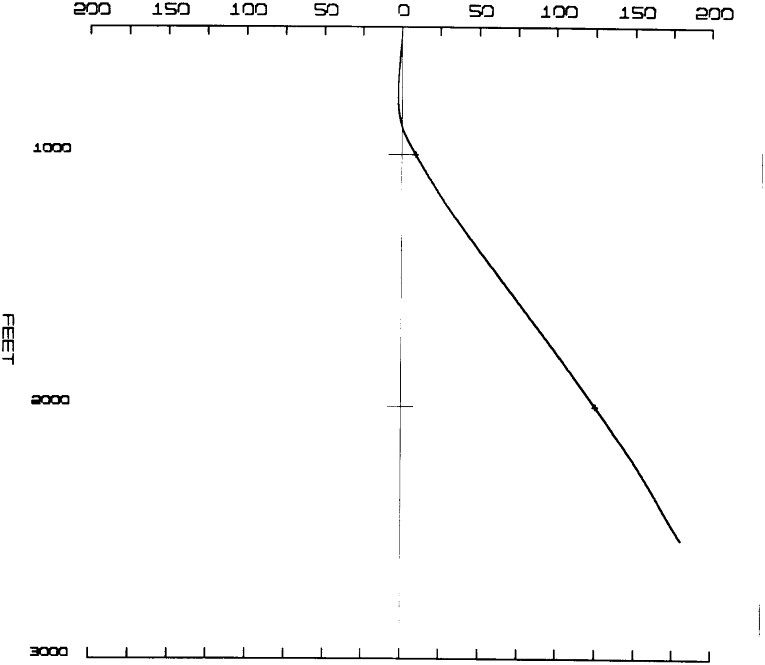
COMPANY	OREGON NATURAL GAS CORP.
WELL	OM 33 C-3
FIELD	MIST
COUNTY	COLUMBIA
COMMENTS	

FINAL EAST-WEST DEVIATION	180.55 W
FINAL NORTH-SOUTH DEVIATION	110.28 N
FINAL DISTANCE	211.57 FT
FINAL DEVIATION DIRECTION	N 58.58 W

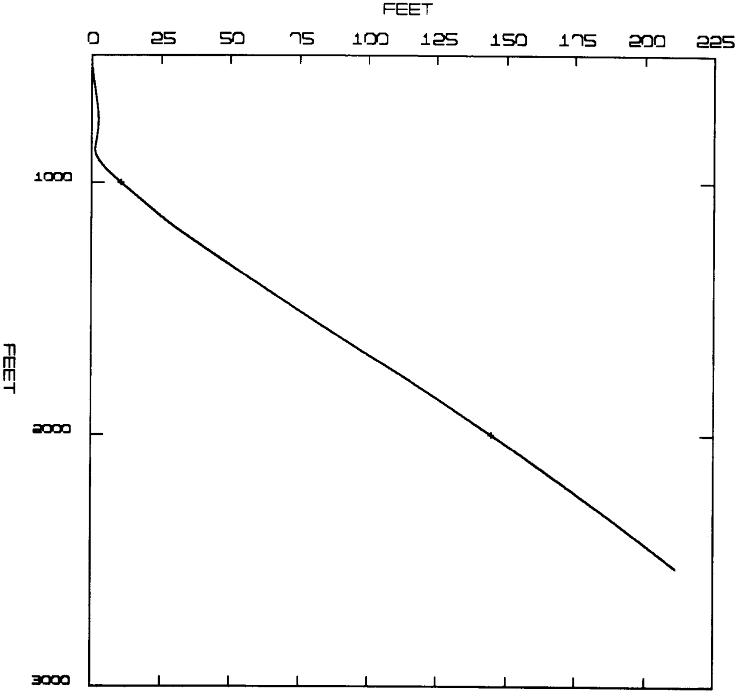


PLAN VIEW





SIDE VIEW



DEPTH VS. DRIFT

PAGE 1

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OREGON NATURAL GAS CORP.
OM 33 C-3

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

495.00     0.6     322.4              495.00      0.00N     0.00E        0.00N        0.00E
545.00     0.6      92.9              545.00      0.15N     0.28E        0.15N        0.28E
595.00     0.8      90.5              594.99      0.01N     0.62E        0.16N        0.90E
645.00     0.8     116.3              644.98      0.07S     0.65E        0.09N        1.55E
695.00     0.7     123.4              694.98      0.38S     0.59E        0.29S        2.13E
745.00     0.2      59.9              744.97      0.08S     0.42E        0.37S        2.56E
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  795.00   1.1    321.7          794.97     0.48N   0.19W     0.11N     2.37E
  845.00   1.9    300.1          844.95     0.74N   0.93W     0.86N     1.43E
  895.00   3.6    292.9          894.89     0.97N   2.07W     1.83N     0.64W
  945.00   5.2    291.1          944.73     1.45N   3.66W     3.27N     4.30W
  995.00   5.8    292.5          994.49     1.80N   4.54W     5.08N     8.84W
 1045.00   6.0    293.4         1044.22     2.02N   4.72W     7.09N    13.56W
 1095.00   6.2    294.6         1093.94     2.17N   4.85W     9.26N    18.41W
 1145.00   6.5    296.4         1143.62     2.35N   5.04W    11.61N    23.45W
 1195.00   7.2    298.3         1193.26     2.76N   5.34W    14.37N    28.79W
 1245.00   7.7    299.2         1242.82     3.20N   5.76W    17.57N    34.55W
 1295.00   7.7    299.4         1292.36     3.34N   5.86W    20.92N    40.41W
 1345.00   8.1    301.0         1341.88     3.46N   5.93W    24.38N    46.34W
 1395.00   7.9    301.5         1391.40     3.53N   5.94W    27.91N    52.28W
 1445.00   8.1    300.6         1440.91     3.56N   5.99W    31.47N    58.27W
 1495.00   8.1    301.9         1490.42     3.64N   5.95W    35.11N    64.22W
 1545.00   8.2    302.0         1539.91     3.75N   6.06W    38.86N    70.28W
 1595.00   8.2    302.0         1589.39     3.81N   6.04W    42.67N    76.31W
 1645.00   8.3    302.4         1638.85     3.90N   6.16W    46.57N    82.47W
 1695.00   8.5    302.0         1688.30     3.90N   6.30W    50.47N    88.77W
 1745.00   8.3    301.7         1737.76     3.83N   6.22W    54.30N    94.99W
 1795.00   8.1    302.2         1787.24     3.78N   6.10W    58.08N   101.09W
 1845.00   8.1    301.0         1836.74     3.70N   6.01W    61.77N   107.10W
 1895.00   7.9    302.0         1886.26     3.63N   5.87W    65.40N   112.96W
 1945.00   7.9    302.2         1935.79     3.57N   5.76W    68.96N   118.73W
 1995.00   7.6    302.6         1985.33     3.60N   5.73W    72.56N   124.46W
 2045.00   7.7    302.6         2034.88     3.58N   5.65W    76.14N   130.10W
 2095.00   7.5    302.9         2084.43     3.60N   5.63W    79.74N   135.74W
 2145.00   7.5    302.9         2134.00     3.56N   5.49W    83.31N   141.22W
 2195.00   7.3    302.9         2183.56     3.58N   5.51W    86.88N   146.74W
 2245.00   7.3    303.3         2233.15     3.54N   5.35W    90.42N   152.08W
 2295.00   7.1    305.0         2282.76     3.48N   5.12W    93.90N   157.21W
 2345.00   7.0    304.8         2332.33     3.47N   5.04W    97.37N   162.24W
 2395.00   6.8    304.8         2382.03     3.30N   4.85W   100.67N   167.09W
 2445.00   6.9    304.8         2431.67     3.47N   4.91W   104.14N   172.00W
                                                               PAGE   2
 OREGON NATURAL GAS CORP.
 OM 33 C-3


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

 2495.00   7.2    306.6          2481.23     3.57N   4.97W   107.72N   176.97W
 2530.00   7.1    305.6          2516.01     2.57N   3.58W   110.28N   180.55W


THE FIRST POINT INFORMATION:
  495.00   0.6    322.4           495.00     0.00N   0.00E     0.00N     0.00E
THE LAST POINT INFORMATION:
 2530.00   7.1    305.6          2516.01     2.57N   3.58W   110.28N   180.55W


EAST WEST DEVIATION    =  180.55 W
NORTH SOUTH DEVIATION =  110.28 N
DIRECTION = N 58.58 W
DISTANCE  =  211.57 FT
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Dresser Atlas DRESSER