WELL HISTORY

Oregon Natural Gas Development Corporation
Section 25-8S-4W W.B. & M.
Marion County, O

Well: Independence 12-25

November, 1980

10,  Paul Graham Drilling and Service Company started moving in Rig No. 1

11,  Rigging up.

12,  Spudded in at 12:00 noon with 9-7/8" bit and drilled ahead.
     35' Volcanics.

13,  40' Volcanics.
       Lost and regained circulation. Drilled ahead.
     385' Volcanics, clay and sand.
       Survey  94'  2°  0'
       199'  2°  0'

14,  657' Clay and siltstone.
       Reamed hole 0-657'.

15,  Ran 15 joints or 624' of 7" 20# K casing equipped with a guide shoe. Cemented around shoe at 635' with 225 sacks of cement. No cement returns at surface. Cement in place at 5:00AM.
       Located top of cement in annulus at 31'. Filled annulus to surface with cement. Cement in place at 12:30PM.
       Landed casing and installed casing head. Installed and tested BOPE.

16,  1884' Drilled out cement and shoe with 6-1/4" bit and drilled above sand and clay.
       Survey  1236'  0°  30'
       1729'  0°  15'

17,  2811' Clay, sand and siltstone.
       Survey  2224'  1°  0'

18,  3106' Clay, sand and volcanics.
       Survey  2842'  3°  45'

19,  3727' Clay and sand.
       Survey  3496'  6°  0'

20,  4294' Clay, sand, and siltstone.
       Survey  4014'  6°  0'
November, 1980

21,  4611'  Clay and sandstone.
   Survey  4399'  7° 0'

22,  4826'  Clay and sandstone.
   Welex ran Dual Induction Log from 638-4824.
   Welex ran Compensated Acoustic Velocity Log from 636-4820.

23,  Welex ran Dipmeter.
    Plug No. 1 Hung drill pipe at 3150' and pumped in and  
    equalized 40 sacks of cement. Calculated to fill to 2934'. 
    Cement in place at 10:00AM.
    Plug No. 2 Hung drill pipe at 680' and pumped in 25 sacks 
    of cement treated with 3% CaCl2. Cement in place at 11:40.
    Located top of plug No. 2 at 616'.
    Plug No. 3 Hung drill pipe at 616' and pumped in and equalized 30 sacks of cement. 
    Calculated to fill to 465'.
    Cement in place at 3:30PM.
    Plug No. 4 Hung drill pipe at 30' and pumped in 10 sacks of 
    cement, filling 7" casing to surface.
    Cut off 7" casing 5' below ground level.
    Hole abandoned in this condition.