

WELL HISTORY

Reichhold Energy Corporation
Well No.: "NNG-Merrill" No. 1

Sec. 24, T. 8S., R. 4W., W. B. & M.
Marion County, Oregon

September, 1975

24 Hunnicutt and Camp Drilling Co. moved in Rig No. 4 and rigged up.

25 Completed rigging up.
Spudded in at 7:00 P.M. with 13-3/4" bit and drilled ahead.

74' Sand and clay.

26 86' Sand and basalt.
Reduced hole to 8-3/4" and drilled ahead.

116' Basalt.
Survey at 107' 0°-15'

Opened hole from 8-3/4" to 12-1/4" from 86' to 114'.

27 Opened hole from 8-3/4" to 12-1/4" from 114' to 116'.
Drilled ahead with 12-1/4" bit.

165' Basalt.
Survey at 150' 0°-30'

28 226' Basalt.
Survey at 215' 0°-45'

29 302' Basalt.
Survey at 271' 1°-0'

30 312' Basalt.

361' Tuffaceous siltstone.

Lost circulation at 361'. Pumped in mud containing walnut hulls, cottonseed hulls, and fiber. No returns.

October, 1975

1 Plug Hung drill pipe at 352' and pumped in 100 sacks of neat cement. Cement in place at 6:15 a.m.

Ran drill pipe to locate plug at 10:30 a.m. No fill.

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1 (contd)

Plug Hung drill pipe at 352' and pumped in 120 sacks of Class G cement premixed with 8% gel. Cement in place at 11:05 a.m.

Ran drill pipe to locate plug at 4:30 p.m. No fill.

Plug Hung drill pipe at 352' and pumped in 175 sacks of cement premixed with 5% gel and 3% Flocele. Cement in place at 5:00 p.m.

Ran drill pipe to locate plug at 8:00 p.m. No fill.

Drilled ahead with 12-1/4" bit with no circulation.

394' Clay.

2 623' Clay.

Ran 15 joints, or 612', of 9-5/8" 36# K casing equipped with a guide shoe and a B&W cement basket 90' from surface. Cemented around shoe at 608' with 75 sacks of cement premixed with 8% gel, followed by 175 sacks of neat cement. No cement returns at surface. Cement in place at 6:40 p.m.

Hung 1" pipe at 90' in annulus and pumped in 100 sacks of cement. Cement in place at 7:40 p.m.

3 Hung 1" pipe at 21' in annulus and pumped in 125 sacks of cement, filling annulus to surface. Cement in place at 12:30 a.m.

Landed casing and installed screw type 10" series 900 casing head.

Installed and tested BOP equipment with 1200 psi.

Ran 8-3/4" bit and found cement at 476'. Drilled out cement and shoe and drilled ahead.

866' Shale.

Survey at 790' 1°-0'

4 1,889' Shale and clay.

Survey at 1,408' 1°-0'

5 2,862' Sand, clay and shale.

Survey at 1,952' 0°-45'

2,642' 0°-30'

6 3,373' Shale.

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October, 1975

7	3,689'	Sand, sandstone, shells and shale.
8	4,136'	Sand and shale.
9	4,498'	Sand and shale.
10	5,027'	Sand and shale.
11	5,247'	Shale.
12	5,282'	Shale.

Ran Welex Induction-electrical Log from 609' to 5,275'.

Ran Welex Compensated Acoustic Velocity Log from 609' to 5,272'.

13 Ran Welex Dipmeter from 609' to 5,272'.

Welex took 30 sidewall samples. Descriptions attached.

Plug No. 1 Hung drill pipe at 3,410' and pumped in and equalized 50 sacks of cement. Cement in place at 10:45 a.m.

Located top of Plug No. 1 at 3,290'.

Plug No. 2 Hung drill pipe at 652' and pumped in and equalized 75 sacks of cement. Cement in place at 5:45 p.m.

Located top of Plug No. 2 at 534'. Location and hardness of top of plug witnessed and approved by Mr. Vernon C. Newton of the State Department of Geology and Mineral Industries.

Plug No. 3 Hung drill pipe at 60' and pumped in 25 sacks of cement, filling surface casing with cement. Cement in place at 11:45 p.m.

14 Cut off surface casing 4' below ground level and welded on steel plate.

Hole abandoned in this condition.