

WELL HISTORY

Reichhold Energy Corporation
Well No. "NNG-Finn" No. 1

Sec. 17, T. 6S., R. 4W., W. B. & I.
Polk County, Oregon

August, 1975

25 Hunnicutt and Camp Drilling Co. commenced rigging up Rig No. 4.

26 Completed rigging up.

Spudded in at 7:00 p.m. with a 13-3/4" bit and drilled ahead.

138' Sand, shale and gravel.
Survey at 90' 0°-15'

27 660' Sand, sandstone and clay.
Survey at 264' 0°-0'
509' 1°-30'

Ran 17 joints (including landing joint) of 9-5/8" 36# K LT&C casing equipped with a B&W guide shoe. Cemented around shoe at 652' with 140 sacks of cement premixed with 8% gel, followed by 250 sacks of neat cement. Displaced one top rubber plug with 280 cu ft of water. Had approximately 70 cu ft of cement returns at surface. Cement in place at 4:50 p.m.

Laid down landing joint.

Installed screw on 10" series 900 casing head.

28 Installed and tested BOP equipment. Test of BOP equipment witnessed and approved by Department of Geology and Mineral Industries.

Drilled out plug at 640', cement below, and shoe at 652' with 8-3/4" bit and drilled ahead.

1,029' Sand and shale.

29 1,070' Sand and clay.
Survey at 1,039' 4°-15'

Circulated and conditioned hole for drill stem test.

30 DST No. 1 Ran Halliburton tester with no cushion and set packers at 1,043' and 1,050' with tail to 1,070'. Opened tool at 11:55 p.m., (8/29), for Initial Flow on 1/2" bottom bean and through bubble hose at surface. Had light blow. Closed tool for Initial Shut In Pressure at 12:00 midnight. Opened tool for Second Flow at 12:32 a.m. Light decreasing blow. Gas to surface in 20 minutes. Rate too low to measure. Dead at 12:53 a.m. Closed for Final Shut In Pressure.

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30 (contd)

DST No. 1 (contd)

Pulled tool at 1:23 a.m. Recovered 326' of slightly gas cut mud.
Salinity 2200 ppm.

<u>Pressures</u>	<u>Top</u>	<u>Bottom</u>
IHP	532	555
IF ₁	162	263
FF ₁	96	177
ISIP	469	484
IF ₂	223	295
FF ₂	190	207
FSIP	328	399
FHP	499	517

Drilled ahead with 8-3/4" bit.

2,088'	Clay and shale.		
	Survey at	1,207'	3°-45'
		1,515'	3°-30'
		2,015'	2°-15'

31	3,155'	Sand, clay and shale.	
		Survey at	2,675'
			1°-0'

September, 1975

1	3,844'	Shale.	
		Survey at	3,594'
			1°-45'
2	4,469'	Shale.	
		Survey at	4,469'
			1°-0'
3	4,950'	Shale.	
4	5,189'	Siltstone.	
		Survey at	5,130'
			1°-0'
5	5,440'	Siltstone.	
6	5,675'	Siltstone.	
7	5,892'	Siltstone.	

Conditioned mud Raised Mud weight.

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8		Conditioned mud and hole.		
9		Drilled ahead.		
	6,010'	Siltstone and volcanics.		
10	6,134'	Shale and volcanics.		
11	6,247'	Shale and volcanics.		
		Survey at	6,247'	0°-30'
12	6,369'	Shale and volcanics.		
13	6,555'	Shale and volcanics.		
14	6,621'	Shale and volcanics.		
15	6,766'	Shale and volcanics.		
16	6,953'	Shale and volcanics.		
17	6,986'	Shale and volcanics.		
		Magna-glo'd drill collars and all subs.		
		Drilled ahead.		
	7,003'	Shale and volcanics.		
18	7,131'	Shale and volcanics.		
19	7,252'	Shale and volcanics.		
20		Ran Welex Induction-electrical Log from 651' to 7,212'.		
		Ran Welex Compensated Acoustic Velocity Log from 651' to 3,428'.		
		Ran 8-3/4" bit and conditioned hole.		
21		Ran Welex Dipmeter from 561' to 6,050'.		
		Welex took sidewall samples.		
		Sidewall samples descriptions are attached.		

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21 (contd) Plug No. 1 Hung drill pipe at 5000' and pumped in and equalized 80 sacks of cement. Calculated to fill to 4,814' (9-1/2" hole). Cement in place at 4:50 p.m.

Plug No. 2 Hung drill pipe at 702' and pumped in and equalized 100 sacks of cement. Cement in place at 9:20 p.m.

22 Located top of plug No. 2 at 486'. Top of plug witnessed and approved by Mr. Vernon C. Newton of the Department of Geology and Mineral Industries.

Plug No. 3 Hung drill pipe at 60' and pumped in 30 sacks of cement, filling surface casing from 60' to 18'. Cement in place at 4:05 a.m.

Tearing out rig.

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

Hole abandoned in this condition.