

WELL HISTORY

Reichhold Energy Corporation
Well: Columbia County No. 12

Section 14-6N-5W W.B.&M.
Columbia County, Oregon

February, 1980

- 24, Brinkerhoff-Signal moved in rig No. 6 and rigged up.
- 25, Spudded in at 12 noon with 9-7/8" bit and drilled ahead.
397' Sand and Clay
- 26, 430' Sand and Clay
Wait for surface casing.
- 27, Ran 10 joints or 386.88' of 7" 23# K casing equipped with a guide shoe. Cemented around shoe at 399' with 150 sacks of Class II cement. Had good cement returns at surface. Cement in place at 5:15 P.M.
Wait for cement.
- 28, Removed landing joint and installed screw on casing head. Installed and tested B.O.P. equipment. Test of B.O.P.E. witnessed and approved by Department of Geology and Mineral Industries.
Drilled out plug, cement below and shoe with 6-1/4" bit and drilled ahead.
910' Sand and Clay
- 29, 1863' Sand, Clay and Shale
Circulated and raised mud weight to 86 lbs/cu.ft.

March, 1980

- 1, 2489' Shale and Clay
- 2, 3159' Sand and Shale
Survey at 2770' 5° 45'
- 3, Ran Schlumberger Dual Induction-SFL Log and Borehole Comensated Sonic Log.
Ran Schlumberger Dipmeter.
Plug No. 1 Hung drill pipe at 2503' and pumped in and equalized 36 sacks of Class II cement. Calculated to fill to 2309'. Cement in place at 6:15 P.M.
Plug No. 2 Hung drill pipe at 1750' and pumped in and equalized 36 sacks of Class II cement. Calculated to fill to 1556'. Cement in place at 6:40 P.M.
Plug No. 3 Hung drill pipe at 625' and pumped in and equalized 76 sacks of Class II cement. Cement in place at 7:10 P.M.
Wait for cement.

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- 4, Located top of cement at 318'.
Cleaned out cement to 395'.
Wait on directional tools.
- 5, Cleaned out cement to 480'. *KoP. No good.*
Ran in with Dyna Drill and drilled ahead.
595' Sand and Clay
Survey at 591' 1-1/2° N67W
- 6, Ran in with bit and reamed 399' to 595'.
Ran in with Dyna Drill and drilled ahead.
805' Clay
Survey at 651' 2-1/2° S56W
744' 4° S41W
- Preparing to plug back.
- 7, Plug No. 1A Hung drill pipe at 627' and pumped in and equalized
76 sacks of Class II cement. Cement in place at 4:35 P.M.
Wait on cement.
- 8, Located top of cement at 330' at 12:30 A.M. Cleaned out to 332'.
Wait on cement.
Cleaned out cement 332' to 365'.
Cement soft.
Wait on cement.
- 9, Cleaned out cement from 365' to 406'. *KoP*
Ran in with Dyna Drill and drilled ahead.
981' Clay
Survey at 448' 2° S57E
511' 3° 45' S42E
604' 5° 45' S26E
700' 7° 15' S24E
794' 8° 00' S25E
888' 10° 00' S24E
- 10, Continued drilling with Dyna Drill.
1519' Clay
Survey at 951' 12° S24E
1043' 15° S26E
1139' 18° S25E
1233' 20° S29E
1359' 23° S27E
1422' 23° 15' S25E
1484' 24° 45' S22E
- Laid down Dyna Drill and drilled ahead with drilling assembly.

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- 10, 1615' Clay
Survey at 1545' 25° 30' S21E
- 11, 1732' Clay and Shale
Survey at 1639' 27° S21E
1732' 28° 30' S20E
Laid down drilling assembly and drilled ahead with Dyna Drill.
1861' Clay and Shale
Survey at 1766' 28° 45' S18E
1830' 27° 45' S17E
1861' 26° 45' S17E
Laid down Dyna Drill and drilled ahead with drilling assembly.
1920' Clay and Shale
Survey at 1920' 26° S18E
- 12, 2494' Clay and Shale
Survey at 2015' 27° S18E
2108' 27° 45' S18E
2201' 29° 00' S19E
2323' 30° 00' S16E
2450' 30° 30' S16E
- 13, 3183' Sand, Clay and Shale
Survey at 2650' 31° 30' S15E
2929' 34° 45' S11E
- 14, 3364' *R.D. #1* Sand and Shale
Survey at 3364' 37° 30' S7E
T.V.D. 3059' Ran Schlumberger Dual Induction-SFL Log
Ran Schlumberger Dipmeter.
Plug No. 2A Hung drill pipe at 2629' and pumped in and equalized 40 sacks of Class II cement. Calculated to fill to 2413'. Cement in place at 11:25 P.M.
- 15, Plug No. 3A Hung drill pipe at 627' and pumped in and equalized 76 sacks of Class II cement. Cement in place at 12:15 A.M. Located top of plug at 398' at 8:45 A.M.
Plug No. 4A Hung drill pipe at 398' and pumped in and equalized 24 sacks of Class II cement. Cement in place at 9:00 A.M. Located top of plug at 323'. Removed casing head. Capped 7" surface casing. Well suspended in this condition.