

WELL HISTORY

Reichhold Energy Corporation
Well: Columbia County 13-2

Section 2-6N-5W W.B.&M.
Columbia County, Oregon

July, 1980

25, Paul Graham Drilling and Service Company moved in Rig No.1 and rigged up. Spudded in at 6:30 P.M. with 9-7/8" bit and drilled ahead.

198' Siltstone

26, 431' Siltstone
Survey at 430' 0° 15'
Ran 10 joints of 7" 20# K casing equipped with a guide shoe and cemented around shoe at 406' with 200 sacks of cement treated with 2% CaCl₂. Cement in place at 10:00 A.M. No cement returns at surface.
Ran 1" pipe in annulus to 80'. Pumped in 75 sacks of Class G. No cement returns at surface. Cement in place at 4:00 P.M.
Ran 1" pipe in annulus to 80' and pumped in 25 sacks of cement. No cement returns at surface. Cement in place at 8:00 P.M.
Spotted pill with loss of circulation material through annulus.

27, Ran 1" pipe in annulus to 80' and pumped in 50 sacks of cement. Had good cement returns at surface. Cement in place at 2:00 A.M.
Landed casing and installed casing head.
Installed and tested BOP equipment.
Witnessing of test waived by Department of Geology and Mineral Industries.
Drilled out plug, cement below and shoe with 6-1/4" bit and drilled ahead.

740' Clay and Sand

28, 2103' Clay and Sand
Survey at 1011' 3° 0'
1607' 4° 30'
1822' 5° 0'

29, 2657' Clay and Sand
Survey at 2309' 6° 45'

30, 3120' Clay and Sand
Survey at 2783' 10° 15'

31, 3709' Clay and Sand
Survey at 3709' 8° 0'

August, 1980

1, Welex ran Dual Induction Guard Log from 3707-407.
Welex ran Compensated Acoustic Velocity Log from 3702-407.
Welex ran Dipmeter.
Plug No.1 Hung drill pipe at 3343' and pumped in and equalized 40 sacks of cement. Calculated to fill to 3127'.
Cement in place at 12:00 noon.

WELL HISTORY

Reichhold Energy Corporation
Well: Columbia County 13-2

Section 2-6N-5W W.B.&M.
Columbia County, Oregon

August, 1980

- 1, cont. Plug No.2 Hung drill pipe at 528' and pumped in and equalized 68 sacks of cement treated with 3% CaCl₂. Cement in place at 2:20 P.M.
Located top of plug No.2 at 345' at 8:30 P.M.
Waiting on orders.
- 2, Waited on orders.
Ran 6-1/4" bit and cleaned out cement to 400'. Conditioned mud.
- 3, Waiting on cement.
Cleaned out cement to 408'.
Waiting on cement.
Cleaned out cement to 410'.
Started in hole with DynaDril and bit stopped in casing head.
Removed BOPE and casing head.
Found nipple in bottom of head egg shaped.
Waiting on casing head.
- 4, Installed new casing head.
Reinstalled and tested BOPE.
Ran DynaDril with 6-1/4" bit and drilled ahead.
- | | | | | | |
|------|---------------|------|----|-----|------|
| 541' | Sand and Clay | | | | |
| | Survey at | 480' | 3° | | S85W |
| | | 511' | 4° | 15' | N66W |
| | | 541' | 6° | 0' | N58W |
- Laid down DynaDril and drilled ahead with drilling assembly.
- | | | | | | |
|------|---------------|------|----|-----|------|
| 864' | Sand and Clay | | | | |
| | Survey at | 571' | 7° | 15' | N47W |
| | | 675' | 7° | 45' | N45W |
| | | 859' | 7° | 45' | N40W |
- 5, 1939'
- | | | | | | |
|--|---------------|-------|-----|-----|------|
| | Sand and Clay | | | | |
| | Survey at | 1045' | 8° | 15' | N38W |
| | | 1231' | 10° | 0' | N34W |
| | | 1417' | 12° | 15' | N35W |
| | | 1531' | 10° | 0' | N34W |
| | | 1654' | 6° | 45' | N39W |
| | | 1819' | 6° | 0' | N35W |
- 6, 2470'
- | | | | | | |
|--|-----------|-------|----|-----|------|
| | Clay | | | | |
| | Survey at | 1941' | 5° | 15' | N36W |
| | | 2063' | 5° | 45' | N34W |
| | | 2155' | 5° | 45' | N33W |
| | | 2309' | 5° | 45' | N31W |
- 7, 2959'
- | | | | | | |
|--|---------------|-------|----|-----|------|
| | Clay and Sand | | | | |
| | Survey at | 2557' | 6° | 15' | N28W |
| | | 2743' | 5° | 45' | N26W |
- 8, 3627'
- | | | | | | |
|--|---------------|-------|----|----|------|
| | Clay and Sand | | | | |
| | Survey at | 3361' | 3° | 0' | N52W |

WELL HISTORY

Reichhold Energy Corporation
Well: Columbia County 13-2

Section 2-6N-5W W.B.&M.
Columbia County, Oregon

August, 1980

- 9, 3823' Clay and Sand
Survey at 3823 3° 15' N37W
Welex ran Dual Induction Guard Log from 3818-407.
Welex ran Dipmeter.
Plug No.3 Hung drill pipe at 3368' and pumped in and equal-
ized 40 sacks of cement. Calculated to fill to 3152'.
Cement in place at 8:00 P.M.
Plug No.4 Hung drill pipe at 495' and pumped in and equal-
ized 63 sacks of cement treated with 3% CaCl₂. Cement in place
at 9:20 P.M.
Wait on cement.
- 10, Located top of plug at 253' at 3:30 A.M.
Removed BOPE and casing head.
Capped 7" casing at surface.
Hole suspended in this condition.

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 State Office Building Portland 1, Oregon

HISTORY OF OIL OR GAS WELL
(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator *Rei vhold* Field *WIS*
Well No. *Columbia Co. 13-2*, Sec. _____, T. _____ R. _____ W.B. & M.
Signed *[Signature]*
Date *8/10/80* Title _____
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date *8/9/80*
RD unsuccessful: P+A. *Prog #1: DP at 3368' (top of cement 3152')*
Pumped 4000 G. Calc. top of cement 3152'
Prog #2: DP at 495'. Pumped
6300 G. + 2% Calc. Trapped cement at 495'. Well
suspended info by plug.