

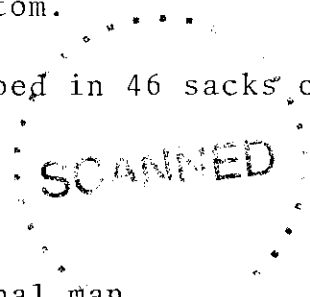
WELL HISTORY

Reichhold Energy Corporation
Well: Crown Zellerbach 42-1

Section 1-6N-5W W.B.&M.
Columbia County, Oregon

July, 1980

- 9, Paul Graham Drilling and Service Company moved in Rig No.1 and rigged up.
- 10, 420' Spudded in at 10:00 A.M. with 9-7/8" bit and drilled ahead.
Sand and Clay
Ran 10 joints of 7" 20# K ST&C and cemented around shoe at 406' with 150 sacks of Class G cement. No cement returns at surface. Cement in place at 9:40 P.M.
Ran 1" pipe to 80' in annulus and pumped in 25 sacks of cement. Cement in place at 10:25 P.M. Filled annulus to surface.
- 11, Landed casing and installed casing head.
Installed and tested BOP equipment.
Drilled out plug, cement below and shoe with 6-1/4" bit and drilled ahead.
1409' Sand and Clay
- 12, 1614' - Clay and Shale
Shale running. Hole packed off.
10. Reaming and attempting to clean out to bottom.
- 13, Laid down excess drill pipe.
Plug No.1 Hung drill pipe at 526' and pumped in 46 sacks of cement. Cement in place at 2:45 P.M.
Located top of plug at 401' at 6:45 P.M.
Standing cemented.
- 14, Re-located top of cement at 386'.
Cleaned out cement to 400'.
Standing cemented and waiting for directional man.
- 15, Cleaned out cement to 412'.
Ran in with Dyna Dril and drilled ahead.
890' Clay and Sand
Survey at 509' 6° 45' N78E
570' 9° 0' N73E
631' 12° 15' N61E
693' 13° 30' N57E
722' 15° 0' N57E
782' 16° 0' N55E
815' 16° 45' N51E
- 16, 1164' Clay and Sand
Survey at 876' 19° 15' N46E
937' 18° 0' N37E
997' 17° 45' N28E
1058' 18° 0' N20E
1124' 17° 15' N15E
Laid down Dyna Dril and drilled ahead with drilling assembly.



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16, cont. 1679' Clay
Survey at 1209' 16° N7E
1269' 15° 30' N12E
1454' 13° 45' N13E
1588' 12° 45' N16E
1679' 12° N11E

17, 2215' Ran in with Dyna Drill and drilled ahead.
Clay
Survey at 1732' 12° N4E
1833' 11° 30' N6W
1900' 9° 45' N13W
2022' 6° 45' N25W
2083' 6° 15' N36W
2144' 4° 45' N48W
Laid down Dyna Drill and drilled ahead with drilling assembly.
2390' Clay
Survey at 2234' 3° 30' N54W
2327' 4° 0' N55W

18, 2892' Sand, Clay and Basalt
RP. 1
Survey at 2435' 3° 30' N55W
2642' 3° 45' N52W
2822' 3° 15' N77W

19, Ran Welex Dual Induction Guard Log, Compensated Acoustic Velocity Log and Dipmeter.
Plug No.2 Hung drill pipe at 2258' and pumped in and equalized 40 sacks of cement. Calculated to fill to 2042'. Cement in place at 5:05 P.M.

20, Ran 6-1/4" bit to 2000' and circulated and conditioned mud.
Ran 51 joints or 1936.79' (incl. shoe) of 4-1/2" 10.5# K casing equipped with a guide shoe and an insert fill-up valve on top second joint above shoe. Centralizers installed around collars on bottom 12 joints.
Cemented around shoe at 1934' with 140 sacks of cement. Cement in place at 11:15 A.M.
Landed casing and installed tubing spool. Tested secondary seal with 3000 psi.
Re-installed BOP equipment.

21, Ran tubing to top of cementing plug at 1847'.
Treated water in casing with 3% KCL.
Welex ran Micro Seismogram Log-Cased hole from 1848'-400'.
Landed 2-3/8" tubing as follows:
KB to flange 10.00'
53 joints 1662.65
1672.65
Installed Xmas tree.

SCANNED

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22,

Welex ran through tubing with 1-9/16" Sidewinder SSBII gun loaded with 0° phasing and decentralized. Shot 4 HPF in the interval 1750' - 1760'.

Displaced water in casing with nitrogen.

Flowed well as follows:

<u>Time</u>	<u>Choke</u>	<u>TP</u>	<u>CP</u>	<u>Rate</u>	<u>Remarks</u>
11:45	SI	540	575		
12:45	SI	560	580		
1:00	SI	560	580		
1:15	18/64	440	475	700	Dry
1:20		420	440	675	"
1:25		420	440	675	"
1:30	20/64	400	425	730	"
1:35		395	415	725	"
1:40		395	415	725	"
1:45		395	415	725	"
1:50	22/64	315	345	945	
1:55		300	330	910	
2:00		300	330	900	
2:10		300	330	900	
2:10	SI				
2:30		530	560		
2:45		540	575		
3:15		550	575		
4:15		550	575		
5:15		550	580		

Well Shut in. Waiting for pipeline connection.

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