WELL HISTORY

Reichhold	Energy	Corpora	tion
Well Colur	nbia Cou	inty No.	6

API NO.
Section 10-6N-5W, W.B.& M.
Mist Field, Columbia County, Oregon

API NO.

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Section 10-6N-5W, W.B.& M.

well Co	Humbia County	NO. 6
July,		
16,		Taylor Drilling Company moved in Rig No. 4, and rigged up.
17,		Spudded in at 12 Noon with 9-7/8" bit and drilled ahead.
	368'	Clay
18,	420'	Clay
	,	Ran 10 joints or 403' of 7" 20# Casing equipped with a guide shoe and cemented around shoe at 401', with 150 sacks of Class II cement. No cement returns at surface. Cement in place at 7:45 A.M.
		Ran 1" pipe to top of cement in annulus at 41'. Pumped in 25 sacks of Class II Cement. Cement did not stay at surface. Cement in place at 12:45 P.M.
		Ran l" pipe to top of cement in annulus at 16'. Pumped in 15 sacks of Class II Cement which filled annulus to surface. Cement in place at 3:00 P.M.
		Landed casing and installed casing head.
19,		Installed and tested BOP equipment. Test of BOPE witnessed and approved by Mr. Vern Newton of DOGMI.
		Drilled out plug, cement below and shoe with 6-1/4" bit and drilled ahead.
	946'	Clay
20,	1,872'	Clay and Sand

Clay and Sand

Clay and Sand

6-1/4" Drag Head.

Core No. 1

-1-

Commenced coring with Reese Conventional Core Barrel and

2,794' - 2,804' · Rec. 4'

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WELL HISTORY

July, 1979

23,

4' Sand, fine to medium grained. Well cemented. Well sorted. Subangular to subrouned, clear to gray quartz grains with minor subrounded Mafic grains. Some Calcite veins. Abundant pyrite and mica. Trace of lignite.

Drilled ahead with 6-1/4" bit.

3,102'

2,917'

Reichhold Energy Corporation

Well Columbia County No. 6

2,2581

2,7941

21,

22,

23,

Sand and Tuff

Sand

25, 3,465'

24,

27,

28,

Tuff and Sand
Ran Welex Induction-electric Log from 401' to 3,456'.

26,

Ran Welex Compensated Acoustic Velocity Log.

REDRILL NO. 1

Plug No. 1. Hung drill pipe at 2,180' and pumped in and equalized 40 sacks of Class II Cement. Cement in place at 1:15 P.M.

Plug No. 2. Hung drill pipe at 460' and pumped in and equalized 56 sacks of Class II Cement in place at 2:10 P.M.

Located top of Plug No. 2, at 286'.

Drilled out cement from 285' - 460' and cleaned out to 615'. Circulated and conditioned mud.

Plug No. 3. Hung drill pipe at 618' and pumped in and equalized 82 sacks of Class II Cement. Cement in place at 7:10 A.M.

Located top of plug at 396'. Cleaned out soft cement to 401'.

Plug No. 4. Hung drill pipe at 401' and pumped in and equalized 30 sacks of Class II Cement. Cement in place at 3:00 P.M.

Cleaned out cement to 400'.

Located top of plug at 291'.

WELL HISTORY

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28,		Waiting for cement to set.
29,		Cleaned out cement to $492'$) 68
30,		Ran Dyna Drill with 6-1/4" bit and drilled ahead.
,,,	929'	Clay
31,	343	Laid down Dyna Drill and drilled ahead.
• •	1,515'	Clay
	,,,,,,	Pick up Dyna Drill and drilled ahead.
	1,660'	Clay
มดนร	t, 1979	- Tay
1,	1,876'	Clay
• •	,,0,0	Laid down Dyna Drill and drilled ahead.
	2,228'	Clay
2,	2,954'	Clay and Sand
3,	2,956'	Sand, Tuff, Sand and Basalt
. ,	2,550	Ran Welex Induction-electric Log from 401' to 2,949'.
		Ran Welex Compensated Acoustic Velocity Log from 492' to 2,952'.
	DENDII	Ran Welex Dipmeter. L NO. 2
	NEDNIL	
		Plug No. 1. Hung drill pipe at 2,365' and pumped in and equal- ized 40 sacks of Class II Cement. Cement in place at 10:20 P.M.
		Plug No. 2. Hung drill pipe at 865' and pumped in and equalized
,		58 sacks of Class II Cement treated with 2% CaCl ₂ . Cement in place at 11:15 P.M.
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		WELL HISTORY
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	hhold Energy Co	
	Columbia Count	y No. 6 Mist Field, Columbia County, Oregon
	st, 1979	
4,		Located top of plug at 621'. Cleaned out cement to 645'.
		Waiting on Cement.
5,		Cleaned out cement to 684'.)
		Ran Dyna Drill with $6-1/4$ " bit and drilled ahead.
	833'	Clay
6,	1,261'	Clay
		Laid down Dyna Drill and drilled ahead.
	1,646'	. Clay
7,	2,243'	Clay and Sand
		Pulled 9 strands of drill pipe and well started to flow.
		Closed rams and installed Kelly.
:	· · · ·	- -

Ran Welex Compensated Acoustic Velocity Log from 684' - 2,614'.
Ran Welex Dipmeter.

Ran 6-1/4" bit to bottom and conditioned hole and mud.

Ran Welex Induction-electric Log from 684' - 2,614'.

Laid down drill pipe.

Killed well with 78 lb./cu.ft. mud.

9,

10.

2,614'

Ran bit to bottom at 2,243' and conditioned mud.

Pulled out of hole and changed stabilizers. Ran bit and drilled ahead. $\,$

Ran Welex Induction-electric Log which stopped at 1,985'. Pulled logging tool.

Reichhold Energy Corporation Well Columbia County No. 6

API NO. Section 10-6N-5W, W.B.& M. Mist Field, Columbia County, Oregon

August, 1979

11,

12,

Ran 68 Joints or 2,587.44' (incl. equip.) of 4-1/2" 10.5# K casing equipped with a guide shoe and an insert fill-up valve on top of second joint above shoe. Casing equipped with centralizers on collars of bottom 11 joints. (38' ± spacing.)

Cemented around shoe at 2,584' with 150 sacks of Class II Cement. Used bottom rubber plug and displaced top rubber plug with 225 cu.ft. of water and bumped plug with 1,200 psi. Pressure held for 5 minutes. Bled off and check held. Closed in at surface. Cement in place at 4:00 A.M.

Casing details

Shoe	.60
2 joints 10.5#	74.72
Insert	-
66 joints 10.5#	2,512.12
On Hook	2,587.44
Above KB	3.44
Shoe @	2,584.00

Landed casing and installed tubing spool with Secondary Seal. Tested seal with 3,000 psi.

Re-installed and tested BOP equipment.

Picked up 2-3/8" tubing and ran to top of plug at 2,508'.

Wait on cement.

Ran Welex Micro-Seisonogram Log - Cased hole from 2,497' -1,200'. Neutron tool failed to work.

Ran 2-3/8" tubing to 2,508' and conditioned water in hole with 3% KCL.

Landed 2-3/8" tubing as follows:

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WELL HISTORY

Well Columbia County No. 6 August, 1979

Reichhold Energy Corporation.

Section 10-6N-5W, W.B.& M. Mist Field, Columbia County, Oregon

API NO.

12,

Below KB	10.00'
Tubing hanger	1.00'
67 joints	<u>2,134.38'</u>
	2,145.38
Removed BOP equipment and installed	Christmas Tree.

13,

14,

Welex ran through tubing and ran Neutron Correlation Log from

2,150' - 2,506'. Welex ran through tubing with a 1-9/16" Sidewinder jet gun and shot 4 holes per foot, 0° phasing in the following intervals.

2,240'- 2,252' 2,303'- 2,324'
2,257'- 2,267' 2,329'- 2,336'
2,277'- 2,287' 2,358'- 2,373' End a fector for the content of the Well flowing water to sump after perforating. Flowed well at

various rates to remove water. Flowed well for 15 minutes at a stabilized rate as follows: Tubing Casing Rate

Choke Press Press Mcf/D Remarks 9/16 800 900 6,500 Dry SI 930 920 3 Min.

Well shut in waiting for pipeline connection.