

COMPLETION REPORT - NEW WELL PRO-3 8-D

STANDARD OIL COMPANY OF CALIFORNIA

FIELD: Paulina Area, Crook County, Oregon

PROPERTY: Section 36

WELL NO: Pexco #1

Sec. 36 T. 20S R. 20E Willamette 8. & N.

LOCATION: 3535' North and 3007' East of the Southwest corner of Section 36.

ELEVATION: 5703' Derrick Floor.

D. S. is 9' above mar.

DATE: February 21, 1956

By W. A. EARDLEY
Mgr. Prod. Dept.

DRILLED BY: Pike Drilling Company

DATE COMMENCED DRILLING: August 18, 1955

DATE COMPLETED DRILLING: December 10, 1955

DATE OF INITIAL PRODUCTION: Abandoned

PRODUCTION:	Daily average, 1st _____ days	Gravity _____ ° API	Pumping _____
	Oil _____ Bbls.	T. P. _____ PSI	Flowing _____
	Water _____ Bbls.	C. P. _____ PSI	Gas Lift _____
	Gas _____ Mcf.	Beam _____ /64"	

SUMMARY

TOTAL DEPTH: 7594'.

PLUGS: Surface to 15'.
670' to 1045'.CASING: 20" cemented at 22'.
13-3/8" cemented at 1007'.

JUNK: None.

LOGS RUN:

1. Lith-O-Log Electric Log recorded to 1000'.
2. " " " " " " " " 1608'.
3. " " " " " " " " 2413'.
4. " " " " " " " " 3226'.
5. " " " " " " " " 4261'.
6. " " " " " " " " 5021'.
7. Schlumberger Electric, Gamma Neutron and Micro Logs recorded to 5263'.
8. Lith-O-Log Electric Log recorded to 5834'.
9. Schlumberger Electric, Gamma Neutron and Micro Caliper Logs recorded to 6695'.
10. Schlumberger Electric Log, Micro Log and Dipmeter Survey recorded to 7103'.
11. Schlumberger Dipmeter Survey recorded to 7138'.

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From	To	Feet	Formation Drilled or Cored
0	9	9	Derrick
9	22	13	Drilled

13' of 20" conductor pipe cemented at 22'.

Moved in equipment and rigged up.

Spudded in at 12:05 A.M., August 18, 1955.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 72# mud.

22	170	148	Drilled
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Lost circulation while drilling at 170'. Mixed shredded rubber, gel and pressed barley. Regained circulation.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 72 to 80# mud.

170	1000	830	Drilled
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August 21, 1955.

Ran Lith-O-Log electric log recorded to 1000'.

Opened 9-7/8" hole to 17-1/2" from 22' to 1000'.

Drilled 17-1/2" hole, 4-1/2" drill pipe.

1000	1007	7	Drilled
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Halliburton cemented 13-3/8" casing at 1007' with 750 sacks Oregon Portland construction cement. Mixed with 520 cu. ft. water and displaced with 970 cu. ft. mud. Good circulation returns of cement. Used 1 top and 1 bottom rubber plugs. Cement in place at 3:40 A.M. Pumped 50 sacks cement in annulus to fill to surface.

CASING DETAIL:

All	25 Jts.	1013'	13-3/8" O.D., 42#, H-40, Range 3, 8 round short threads and collars, including Baker Guide Shoe at 1007'.
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Total	25 Jts.	1013'
Above derrick floor		6'

Cemented at 1007'

Stood cemented 30 hours.

August 26, 1955.

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From	To	Feet	Formation Drilled or Cored
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Installed blow out preventive equipment and tested to 1250 psi.

Located plugs at 1005'. Drilled out plugs, cement and shoe from 1005' to 1007'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 69 to 70# mud.

1007	1266	219	Drilled
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August 28, 1955.

Cored 8-1/2" hole, 4-1/2" drill pipe, 70 to 72# mud.

1266	1276	10	No Recovery.
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Opened 8-1/2" hole to 9-7/8" from 1266' to 1276'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 72 to 77# mud.

1276	1608	332	Drilled
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August 30, 1955.

Ran Lith-O-Log Electric Log, recorded to 1608'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 73 to 73-1/2# mud.

1608	2413	805	Drilled
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September 3, 1955.

Ran Lith-O-Log Electric Log, recorded to 2413'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 77 to 79# mud.

2413	3226	813	Drilled
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September 10, 1955.

Ran Lith-O-Log Electric Log, recorded to 3226'.

Cored 8-1/2" hole, 4-1/2" drill pipe, 78-1/2" to 79# mud.

3226	3233	7	Recovered 7'.
3226	3233	7	Tuff, light gray, very firm, dense, clayey, local streaks and fragments of carbonaceous material. No apparent fractures. No Flash. No shows. Some indication of rather low angle 5 to 20° dips.

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From	To	Feet	Formation Drilled or Cored
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Opened 8-1/2" hole to 9-7/8" from 3226' to 3233'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 77 to 80-1/2# mud.

3233	4261	1028	Drilled
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September 18, 1955.

Ran Lith-O-Log Electric Log, recorded to 4261'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 77-1/2 to 81# mud.

4261	4518	257	Drilled
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September 21, 1955.

Cored 8-1/2" hole, 4-1/2" drill pipe.

4518	4533	15	Recovered 15'. Volcanic tuff conglomerate, medium gray, hard, brittle dense and compact. Very abundant cobbles of andisitic and basaltic flow rocks in a slightly sandy, very clayey matrix. Rare to occasional calcite streaks indicate completely cemented fractures. No flash. No shows. No dips.
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Opened 8-1/2" hole to 9-7/8" from 4518' to 4533'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 78 to 82# mud.

4533	5021	488	Drilled
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Ran Lith-O-Log Electric Log, recorded to 5021'.

September 25, 1955.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 81 to 84# mud.

5021	5263	242	Drilled
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September 28, 1955.

Ran Schlumberger Electric, Gamma Neutron and Micro Logs, recorded to 5263'.

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From	To	Feet	Formation Drilled or Cored
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Drilled 9-7/8" hole, 4-1/2" drill pipe, 81 to 84# mud.

5263	5394	131	Drilled
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September 30, 1955.

Cored 8-1/2" hole, 4-1/2" drill pipe, 81 to 83# mud.

5394	5404	10	Recovered 7'.
5394	5401	7	Contorted claystone with some tuff, medium gray, hard, brittle, dense and compact, locally siliceous. Recovery is in solid 1' to 2' sections, but with occasional streaks of secondary cementation in any direction. No flash. No shows. No dips.

Opened 8-1/2" hole to 9-7/8" from 5394' to 5404'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 81 to 86-1/2# mud.

5404	5834	430	Drilled
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October 8, 1955.

Ran Lith-O-Log Electric Log, recorded to 5834'.

Drilled 9-7/8" hole, 4-1/2" drill pipe, 84 to 86# mud.

5834	5989	155	Drilled
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October 13, 1955.

Cored 8-1/2" hole, 4-1/2" drill pipe, 86 to 86-1/2# mud.

5989	6002	13	Recovered 3' Interbedded siliceous claystone and limestone. The claystone is similar to Core #4. The limestone is light gray, hard, very compact, occasional carbonaceous appearing streaks. The recovery is in small biscuits and cobbles. There is some suggestion the limestone maybe concretions within the claystone. No flash. No shows except an extremely faint fluorescent CCL4 cut from gilsonite like polished surfaces after standing. No dips.
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From	To	Feet	Formation Drilled or Cored
Opened 8-1/2" hole to 9-7/8" from 5989' to 6002'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 82 to 85# mud.			
6002	6045	43	Drilled
October 15, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 82 to 84# mud.			
6045	6051	6	Recovered 1'.
6045	6046	1	Siliceous claystone to chert, dark gray, very hard, dense. The recovery is in small fragments showing common calcite filled fractures. No flash. No shows except as above. No dips.
Opened 8-1/2" hole to 9-7/8" from 6045' to 6051'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 82 to 83# mud.			
6051	6121	70	Drilled
October 18 to November 3, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 82 to 82-1/2# mud.			
6121	6128	7	Recovered 6".
6121	6121-1/2	1/2	Siliceous claystone, all details as above. Core #5
Opened 8-1/2" hole to 9-7/8" from 6121' to 6128'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 80 to 83# mud.			
6128	6695	567	Drilled
November 3, 1955.			
Ran Schlumberger Electric Log, Gamma Neutron Log and Micro-Caliper Log. Recorded to 6695'.			

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From	To	Feet	Formation Drilled or Cored
Cored 8-1/2" hole, 4-1/2" drill pipe, 80 to 81# mud.			
6695	6711	16	Recovered 15'.
6695	6710	15	Contorted tuff and tuffaceous claystone with common thin streaks and nodules of rust colored chert. The tuff is dark green, very firm to hard, very brittle, locally slightly sandy. The recovery is in 1' to 2' core sections showing abundant contortions and common soft, polished fracture and shear surfaces. No apparent porosity or permeability. No shows. Questionable dips of 25 to 50° (possibly 30°).
November 4, 1955.			
Opened 8-1/2" hole to 9-7/8" from 6695' to 6711'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 79 to 81# mud.			
6711	6916	205	Drilled
November 8, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 79 to 81# mud.			
6916	6936	20	Recovered 20'. Tuff to tuffaceous claystone, forest green, hard, dense, sheared and contorted as above. Dips 35° to 50°. Rare oil stains in tiny openings along several fractures.
6936	6956	20	Recovered 20'. Tuff and tuffaceous claystone, all details similar to above except slightly more common rust red coloring. No shows, very questionable dips of 35° to 50°.
Opened 8-1/2" hole to 9-7/8" from 6916' to 6956'.			
November 10, 1955.			

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From	To	Feet	Formation Drilled or Cored
Drilled 9-7/8" hole, 4-1/2" drill pipe, 80 to 81# mud.			
6956	7039	83	Drilled
November 11, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 80 to 81# mud.			
7039	7051	12	Recovered 12'. Tuff and tuffaceous claystone, similar to the above core. No shows. Very questionable dips of 40 to 65°.
November 12, 1955.			
Opened 8-1/2" hole to 9-7/8" from 7039' to 7051'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 79 to 81# mud.			
7051	7103	52	Drilled
Ran Schlumberger Electric Log, Micro Log and Dipmeter to 7103'.			
November 14, 1955.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 79 to 81# mud.			
7103	7138	35	Drilled
Ran Schlumberger Dipmeter.			
November 16 to 21, 1955.			
5 days spent winterizing rig.			
November 22, 1955.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 79 to 81# mud.			
7138	7170	32	Drilled
Cored 8-1/2" hole, 4-1/2" drill pipe, 79 to 80# mud.			
7170	7188	18	Recovered 1/2'.
7170	7170-1/2	1/2	Very fractured tuff and chert with some limestone, consisting of very contorted and intermingled dark green tuff, gray brown to dark gray chert and white, micro-crystalline limestone and calcite. No shows. No dips.
November 23, 1955			

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From	To	Feet	Formation Drilled or Cored
Johnston Formation Test of interval 7260' to 7378'. Ran tester on 7002' of 4-1/2" dry drill pipe and 233' of 7" drill collars. Tool setup includes shut-in valve, conventional main valve, hydraulic tool with 1/2" bean, Bowen combination jar and safety joint, two 8-1/4" O.D. bobtail packers, right and left hand nipple below packers. Set bottom of bottom packer at 7260', 24' of 4-1/4" O.D. perforated drill collar and 2 pressure recorders to bottom. Opened valve at 4:35 P.M. Had puff blow, then very light decreasing blow for 20 minutes. Dead balance of 1 hour test. Pulled loose at 5:35 P.M. Recovered 30' rise of normal drilling fluid. Pressure charts showed tool open O.K. for 1 hour. Hydrostatic pressure 4000 psi. Flow pressure 100 psi.			
December 2, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 80 to 81# mud.			
7378	7386	8	Recovered 8'. Volcanic graywacke or sandy tuff, as in last core except slightly coarser clasts, fewer macro-fractures and extremely faint shows.
Opened 8-1/2" hole to 9-7/8" from 7378' to 7386'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 78-1/2 to 81# mud.			
7386	7584	198	Drilled
December 7, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 79 to 80# mud.			
7584	7594	10	Recovered 7'. Contorted siliceous volcanics and chert. Abundant calcite filled fractures. No shows.
December 9, 1955.			
Equalized 275 sacks of Portland Construction Cement through 4-1/2" open end drill pipe hung at 1045'. Mixed cement with 200 cu. ft. water in 40 minutes to average 112# slurry. Displaced with 48 cu. ft. mud. Cement in place at 4:10 P.M.			

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From	To	Feet	Formation Drilled or Cored
Opened 8-1/2" hole to 9-7/8" from 7170' to 7188'.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 79 to 81# mud.			
7188	7349	161	Drilled
November 28, 1955.			
Cored 8-1/2" hole, 4-1/2" drill pipe, 80 to 81# mud			
7349	7354	5	Recovered 5'. Volcanic graywacke or sandy tuff, gray green, hard to very hard, very tough dense, non-calcareous, very siliceous, rather coarse sub angular volcanic and chert fragments. Abundant calcite filled fractures. Extremely faint oil staining occurs along the surface of some calcite filled fractures and is apparent only when these surfaces are washed with CCL ₄ under a fluorescent light. Very questionable dips of 45° to 60°.
7354	7365	11	Recovered 8'.
7354	7362	8	Volcanic graywacke or sandy tuff, all details, including shows and dip suggestions, similar to the above core.
7362	7365	3	Lost.
7365	7373	8	Recovered 8'. Volcanic graywacke or sandy tuff as above.
November 30, 1955.			
Opened 8-1/2" hole to 9-7/8" from 7349' to 7373'.			
December 1, 1955.			
Drilled 9-7/8" hole, 4-1/2" drill pipe, 80# mud.			
7373	7378	5	Drilled
Circulated and conditioned mud for Johnston Formation Test.			

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From	To	Feet	Formation Drilled or Cored
Located top of cement plug at 670'.			
December 10, 1955.			
Removed blow out preventive equipment and lines.			
Cemented top of surface pipe with 15' cement plug.			
Cut off casing flange and welded plate over open end casing.			
Well abandoned.			
Rig released at 8:00 A.M., December 10, 1955.			
Dismantled equipment and moved out.			

J. N. VAN HETER

Taft, California
February 21, 1956
JNV/gmr