

Instructions: Prepare and submit this Initial Report on the first Wednesday after a well is spudded or workover operations are started. Daily work prior to spudding should be summarized on the form giving inclusive dates only.

District WESTERN	County or Parish COLUMBIA COUNTY	State OREGON
Field MIST	Lease or Unit COLUMBIA COUNTY	Well no. 31-8
Auth or W.O. no. R46290	API #: 36-009-00212	
Title DRILL & EVALUATE		

SHL: 1605' W & 660' S OF NE CORNER, SEC 8, T6N, R5W, WB&M, COLUMBIA COUNTY, OREGON

Operator ARCO OIL AND GAS COMPANY	ARCO's W.I. 1.000000
Spudded or W.O. began SPUD	Date 10-17-86
	Time 0100 HOURS
	Priority status for W.O.

Date and depth as of 8:00 a.m.	Complete record for each day reported
1/4 10-17-86	TD: 195' (154') - Drilling (13-3 5" @ 41') MUD: 9.0 ppg VIS: 43 PV/YP: 12/8 MIRU. Spud well at 0100 hrs, 10-17-86. Drill 12-1/4" hole 41' - 195'.
3-1/4 10-18,19,20,86	TD: 1850' (1655') - POOH (9-5/8" @ 450') MUD: 9.6 ppg VIS: 45 PV/YP: 19/9 Drill 12-1/4" hole 195' - 450'. RU and run 11 jts of 9-5/8" 47# & 36#, L-80, J-55 & S-95 casing with shoe at 450', float collar at 405'. Cement casing with 220 sx Class G + 3% CaCl ₂ + .25% Flocele mixed at 15.8 ppg. Good circulation with 12 bbl cement returns. CIP at 1700 hrs, 10-17-86. WOC. Weld on 9-5/8" SOW x 11" 3M bradenhead. Test weld to 1500 psi. NU and test BOPE. Drill cement and float equipment. Drill 8-1/2" hole 450' - 473'. Perform pressure integrity test, EMW = 13.8 ppg. Drill 473' - 1483'. POOH. RIH dynadrill. Drill and survey 1483' - 1850'. POOH.
4-1/4 10-21-86	TD: 2791' (941') - Drilling (9-5/8" @ 450') MUD: 10.3 ppg VIS: 47 PV/YP: 23/11 RIH. Drill 8-1/2" hole 1850' - 2791'.
5-1/4 10-22-86	TD: 3200' (2791') - Logging (9-5/8" @ 450') MUD: 10.2 ppg VIS: 44 PV/YP: 17/14 Drill 8-1/2" hole and survey 2791' - 3200'. Run DIL/BHC from 3182' - 450', run VSP from 3170' - 2370'.
6-1/4 10-23-86	TD: 3745' (545') - Drilling (9-5/8" @ 450') MUD: 10.5 ppg VIS: 47 PV/YP: 20/14 Run VSP from 2370' - 450'. Drill 8-1/2" hole from 3200' - 3745'.
7-1/4 10-24-86	TD: 3994' (249') - Reaming (9-5/8" @ 450') MUD: 10.7 ppg VIS: 47 PV/YP: 24/16 Drilled 8-1/2" hole 3745' - 3994'. POOH, tight 3994' - 3504'. RIH. Ream tight hole 3614' - 3960'. Stuck pipe at 3958'. Worked pipe free. Ream tight hole 3954' - 3964' while increasing mud weight and conditioning mud.
9-1/4 10-25,26-86	TD: 4054' (60') (PBSD: Surface) - Rig released (9-5/8" @ 450') Ream tight hole 3964' - 3994' while increasing mud weight to 11.0 ppg. Drill 3994' - 4024'. Ream tight hole while increasing mud weight to 11.4 ppg. Drill 4024' - 4054'. Increase mud weight to 11.6 ppg. Wiper trip, tight to 3500'. Circulate and condition mud. POOH. Run DIL/BHC/SP 4020' - 2100', FDC/CNL/GR 4020' - 250', HDT 4020' - 200', SWC 3975' - 2440'. RIH BHA. Lay down same. RIH OEDP to 556'. Set shoe plug with 106 sx Class G + 3% CaCl ₂ mixed at 15.8 ppg. CIP 1604 hrs, 10-25-86. WOC. ND BOP. Tag TOC at 267', witnessed by DOGMI. POOH. Lay down pipe. Cut off casing. Set surface plug 31' to surface with 18 sx Class G + 3% CaCl ₂ mixed at 15.8 ppg. Weld on steel plate. Release rig at 0300 hrs, 10-26-86.

The above is correct:	
Signature R. L. THOMAS <i>Gilman Schauf</i>	Date 1/21/87
Title DISTRICT DRILLING ENGINEER	

For form preparation and distribution, see Procedures Manual, Section 10, Drilling, Pages 86 and 87.