

Instructions: Prepare and submit the "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, parish or borough COLUMBIA	State OR
Field MIST	Lessee or Unit CAVENHAM ENERGY RESOURCES	Well no. 23-16-64
Auth. or W.O. no. API: #009-00244	Title NEW DRILL	

2170'E & 1645'N F/ SW COR S16/T6N/R4W, WB&M

Operator ARCO OIL AND GAS COMPANY	ARCO # 100*
Spudded or W.O. begun SPUDED	Date 10/01/88

Date and depth as of 5:00 a.m.	Complete record for each day reported
-1 9-29-88	CAVENHAM ENERGY RESOURCES #23-16-64 (C.C., OR) PG #4 R46982 TD: 40' (0') MIRU (13-3/8" @ 40')
-2 9-30-88	TD: 40' (0') MIRU Plan to begin moving rig loads today. Still plan to spud Saturday.
1-1/2 10-03-88	TD: 820' (780') Weld on 9-5/8" head MW: 9.0 VIS: 40 (9-5/8" @ 820')
	SHL: 2170'E & 1645'N E/SW Cor S16/T6N/R4W, Columbia County, Oregon ELEV: 1047'
	MIRU. Accept rig @ 1000 hrs 10/1/88. Spud 12-1/4" hole @ 2000 hrs. Drill f/ 40'-820'. WT to bit. TIH. Circulate and condition mud for casing. POOH. RU & run 20 jts 9-5/8" 36# K-55 LTC 8 rd . Shoe @ 820'. Mix and pump 350 sx Cl G+ 2# CaCl ₂ + 1/4 #/sx Flocele @ 15.8 ppg. Lost full returns while displacing last 11 bbls. CIP @ 0025 hrs. 10/3/88. Perform top job w/ 20 sx Cl G+ 2# CaCl ₂ + 1/4 #/sx Flocele. Had 2 bbls cement returns to cellar. WOC. Cut off conductor and 9-5/8" casing. Weld on 11" 3M x 9-5/8" SOW. Surveys: 498' - 1/4°, 820' - 3/4°.
2-1/2 10-04-88	TD: 1229' (409') Drlg MW: 10.0 ppg VIS: 45 Test wellhead to 1500 psi. NU & test BOPE (DOGMI witnessed). FC 8-1/2 bit. TIH. Test csg to 1200 psi. Tag FC @ 780'. Drill FC & cmt to 800'. Test csg to 1200 psi. Drill cmt & FS. Drill 8-1/2" hole f/ 820' to 957'. Lost partial returns. Mix and pump LCM. Drill f/ 957' to 1168' w/ intermittent losses. WT to shoe. Drill f/ 1168' to 1229' w/ full returns.
3-1/2 10-05-88	TD: 1775' (546') Open hole logs MW: 10.0 ppg VIS: 40 Drill 8-1/2" hole f/ 1229'-1775'. WT to shoe. Circ and condition mud for logs. POOH. RU Atlas. Ran DIL/BHC/SP/GR 1773'-820'. Tool failed. RIH w/ second tool. Ran DIL/BHC/SP/GR 1773'-820'.

The above is correct Signature <i>J. O. Skatta</i>	Date 3/3/89	Title DISTRICT DRILLING ENGINEER
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For filing, preparation and distribution, see Procedure Manual, Section 10, Drilling Operations and 87.