11/04/90 (1) 5-1/2"8 1576'
TD: 1585'
PREP T/PAA, SGNF
MNR. ACCEPT RIG 1230 HRS. SITP/SICP 275 PSI. RU & BLOW DOWN
WELL. PUMP 55.6 BBL LEASE WATER W/NO RUNS. SD PUMP & CHK FOR
FLOW. WELL DEAD. SET BPSV, NO TREE, NU BOPE. FUNCTION TEST
BOPE, OK. RIN W/TBG T/CVR PBD. TBG STOPS 1112', PBD REPORTED
AS 1453'. LAST 2 JTS OF TBG RIN ACTED LIKE GOING THRU TRASH
OR FILL. CIRC ON TBG, TBG NOT PLUGGED. MEASURE OUT. TBG TAIL
MEASURED AT 1194', PROGNOSIS SHOWS 1196'. TIN 7/1298',
NO PROBLEMS. CONTINUE IN TO 1361', 2BG STOPS AT 1361'. CIRC
ON TBG, OK, NOT PLUGGED. FOOM W/40,000 LBS OVER-FULL T/1298'.
PULL T/1298' W/NO PROBLEM. TIN 7/1298'. SECURE WELL. EDPM.

11/05/90 (2) 5-1/2"8 1576'
WELL P&A'D, RIG RELEASED
OPEN WELL, CHK F/FLOW. WELL DEAD. RU HALLIB, MIX & PUMP 58 SX
'G'+3% CALC+0.5 LB/SX FLO SEAL LCM. RATE 2 BPM, PRESS 900 PSI
BALANCE PLUG. CIP 0730 HRS. GOT RING AFTER PUMPING 7 BBLS CMT.
FOOM LD 16 JTS TBG. WOC 3 HRS. RIN T/TBG TOP OF CMT. THEOR
TOP 738'. RIN T/TBG' W/O TAGGING CMT. REVERSE OUT GREEN CMT.
CIRC CLEAN. RU HALLIB PUMP 112 SX 'G'+3% CALC IN 2 STAGES.
RATE 4 BPM, PRESS 300 PSI. CMT T/SURF 81115 HRS. RD CMTR'S, ND
BOPE. CLEAN FIT. RELEASE RIG 1300 HRS. P&A WITNESSED & APPROVED
BY DAN KERNZ, DOGAMS.

11/10/90 (3) CUT OFF WELLHEAD. MIX 10' SURFACE PLUG. WELD PLATE ON STUD.
ARCO Oil and Gas Company

Daily Well History—Initial Report

Date: 9/14/90

Western
Columbia County
Oregon

Mist Gas Field
Longview Fiber

API #: 36-009-00182
Title: Drill & Evaluate

SHL: 635.88' S & 364.09' W of NE corner, Sec 35, TON, R5W, NW1/4, Columbia County, Oregon

ARCO Oil & Gas Company

Spud: 8-16-86
Drill: 1,000,000

2230 Hours

1-1/4 8-17-86
TO: 445' (413') - Change out Hydrid rubbers (9-5/8" @ 442')

2-1/4 8-19-86
TO: 1001' (556') - Drilling ahead (9-5/8" @ 442')
MUD: 10.0 ppg V1S: 40 PV/YP: 10/10 GEL: 6/12 pH: 11.5 W/1: 7.2 SOLID: 8

3-1/4 8-20-86
TO: 1585' (584') - Logging FDC/CNL/GR (9-5/8" @ 442')
MUD: 11 pvg V1S: 37 PV/YP: 14/7 GEL: 0/6 pH: 10.6 WL: 7 SOLID: 15.5
BOG: 175 units TO: 3076 units
Drill 8-1/2' hole 1001' - 1101'. Hole packed off. Work pipe and clean up hole. Wiper trip. Drill 1101' - 1306'. Circulate gas cut mud. Weight up 10.1 ppg to 10.5 ppg. Drill 1306' - 1585'. CNL. Wiper trip. Circulate and condition. Weight up to 10.5 ppg to 10.9 ppg. Wiper trip. Circulate and condition. Weight up 10.9 ppg to 11.0 ppg. CNL. POOH. Run DIL/BHC/SP. sonic failed. RHA FDC/CNL/GR.

4-1/4 8-21-86
TO: 1585' (PBD: 1454') - Prepare to cut 5-1/2" casing (5-1/2" @ 1570')
Run FDC/CNL/GR from 1585' - 445'. Wiper trip. Run Sonic from 1581' - 445', diameter from 1585' - 445', check shots from 1584' - 500'. RHA 8-1/2' bit. Circulate and condition. POOH laying down drill pipe. Run 37' 9th of 5-1/2" 17# K-55 casing with shoe at 1570', float collar at 1454'. Circulate and condition mud. Cement as follows: 3 bbl water, 40 bbl Mud Flush at 9.8 ppg, 5 bbl water, 208 sx Class G + 10% salt + 1% Halad-322 mixed at 15.8 ppg, followed by 185 sx Class G + 10% salt + 1% Halad-322 mixed at 16.8 ppg. Displace top plug with 35.3 bbl water. Pump plug with 1200 ppg, floats held. GIF at 0326 hrs., 8-21-86. Good circulation with trace returns. Land casing. ND BOPE.

The above is correct.

Signature: R.L. Thomas
Date: 9/14/90
Title: District Drilling Engineer

For form preparation and signature, see instructions at end of Drilling, Pages 85 and 86.