

AtlanticRichfieldCompany Daily Well History - Initial Report

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 or Parish COLUMBIA COUNTY		State OREGON
Field MIST		Lease or Unit COLUMBIA COUNTY		Well no. 22-27
Auth. or W.O. no. R46087 API #: 36-009-00178		Title DRILL & EVALUATE		

2339.07' EAST & 1180.19' SOUTH OF NW CORNER, SEC 27, T6N, R5W, WB&M

Operator ARCO EXPLORATION COMPANY			A.R.Co's W.I. 0.750000
Spudded or W.O. begun SPUD	Date 11-17-85	Hour 1100 HOURS	Prior status if a W.O.
Date and depth as of 8:00 a.m. 6:00 am, 1985			

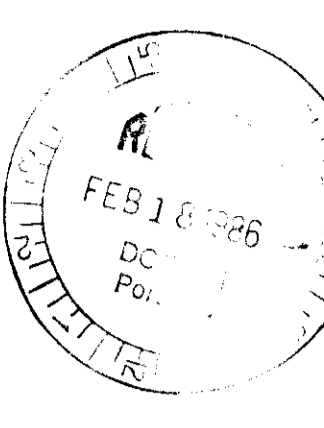
11-18	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 TD: 418' (398') - POOH MUD: 8.9 ppg VIS: 56 PV/YP: 8/31 WL: NC CASING: 16" @ 20' Spud well at 1100 hrs, 11-17-85. Drill 12-1/4" hole and survey to 418'. Condition mud. POOH. Run IP survey from 418'-20'. Condition mud. POOH.	AET
11-19	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 TD: 418' (0') - Drill out cement MUD: 8.9 ppg VIS: 44 PV/YP: 6/8 WL: NC CASING: 9-5/8" @ 418' RU and run 10 jts of 9-5/8" 36# K-55 STC casing with shoe at 418', float collar at 372'. Mix and pump 187 sx Class G with 1/4 #/sx Celloflake + 3% CaCl ₂ mixed at 15.8 ppg. CIP at 0930 hrs, 11-18-85. WOC. Cut 9-5/8" casing, weld on wellhead. NU and test BOP. RIH and tag cement at 370'. Drill out cement.	AET
11-20	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 TD: 879' (461') - Surveying MUD: 10.0 ppg VIS: 46 PV/YP: 8/7 WL: 6.0 CASING: 9-5/8" @ 418' Drill cement to 408'. Test casing to 1500 psi. Drill cement and formation to 428'. Perform leakoff test, EMW = 27.5 ppg. Drill 8-3/4" hole and survey to present depth.	AET
11-21	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 TD: 1721' (842') - Drilling MUD: 10.1 ppg VIS: 53 PV/YP: 17/16 WL: 5.6 CASING: 9-5/8" @ 418' Drill 8-3/4" hole and survey to present depth.	AET
11-22	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 TD: 2500' (779') - Drilling MUD: 10.2 ppg VIS: 52 PV/YP: 11/11 WL: 5.2 CASING: 9-5/8" @ 418' Drill 8-3/4" hole and survey to present depth.	AET
11-23, 24, 25	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 PBD: 1550' - Circulate and condition mud MUD: 9.9 ppg VIS: 48 PV/YP: 8/11 WL: 4.8 CASING: 9-5/8" @ 418' Drill from 2500' - 2532'. Drop multi-shot. POOH. Run IP log from 2532' - 418'; run DIL/Sonic/GR from 2532' - 418'. Make conditioning trip. Run Neutron/Density log, Dipmeter, VSP from 2532' - 418'; shot 51 SWC, recovered 49. Make clean out run. RIH open ended to 1800'. Mix and pump 100 sx Class G mixed at 15.8 ppg. CIP at 1600 hrs, 11-24-85. Estimated TOC 1550'. Pull to shoe. Circulate and condition mud.	AET

The above is correct

Signature <i>B. E. DAVIS</i>	Date 2/14/86	Title DISTRICT DRILLING SUPERVISOR
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For form preparation and distribution see Procedures Manual, Section 10, Drilling, Pages 86 and 87.

Number all daily well history forms consecutively as they are prepared for each well. Page no.



AtlanticRichfieldCompany Daily Well History - Interim

Instructions: This form is used during drilling or workover operations if testing, casing or perforating, and a formal report is desired to work described. Number all drill stem tests sequentially. Attach description of all cases. Work performed by Producing Section will be recorded on "Interim" sheets until completion. Report official or representative test on "Final" form. Submit "Interim" sheets when filled out but not less frequently than every 24 days, or on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

District WESTERN		County or Parish COLUMBIA COUNTY		State OREGON
Field MIST		Lease or Unit COLUMBIA COUNTY		Well no. 22-27
Date and depth as of 8:00 a.m. 6:00 a.m.		Complete record for each day while drilling or workover in progress 1985		

11-26	COLUMBIA COUNTY #22-27 - (Mist) - Taylor #4 - AFE # R46087 PBD: 0' - Release Rig RIH open ended to 525'. Mix and pump 80 sx Class G + 2% CaCl ₂ mixed at 15.8 ppg. CIP at 1330 hrs, 11-25-85. POOH. Tag TOC at 335'. ND BOP. RIH to 61'. Mix and pump 20 sx Class G mixed at 15.8 ppg. Cement to surface. Release rig at 2230 hrs 11-25-85.	AET
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The above is correct

Signature <i>B. E. DAVIS</i>	Date	Title DISTRICT DRILLING SUPERVISOR
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ARCO Oil and Gas Company Daily Well History - Final Report

Instructions: Prepare and submit the "Final Report" on the first Wednesday after allowable has been assigned or well is plugged, abandoned, or sealed. "Final Report" should be submitted also when operations are suspended for an indefinite or appreciable length of time. On workovers when an official test is not required upon completion, report completion and representative test data in blocks provided. The "Final Report" form may be used for reporting the entire operation if space is available.

District WESTERN		County or Parish COLUMBIA COUNTY		State OREGON
Field MIST		Lease or Unit COLUMBIA COUNTY		Well no. 22-27
Auth. or W.O. no. R46087 API #: 36-009-00178		Title DRILL & EVALUATE		

SHL: 2339.07' EAST & 1180.19' SOUTH OF NW CORNER, SEC 27, T6N, R5W, WB&M
BHL: 2013.93' EAST & 1171.49' SOUTH OF NW CORNER, SEC 27, T6N, R5W, WB&M

Operator ARCO EXPLORATION COMPANY			A.R.Co. W.I. 0.750000	Total number of wells (active or inactive) on this cost center prior to plugging and abandonment of this well
Spudded or W.O. begun SPUD	Date 11-17-85	Hour 1100 HOURS	Prior status if a W.O.	
Date and depth as of 8:00 a.m. 6:00 A.M.				

1985 ALL MEASUREMENTS KB = 11'				
PRESENT CONDITION OF HOLE				
Total Depth: 2532'		Plugs: 0' - 61'		Junk: None
		335' - 525'		
		1550' - 1800'		
Casing Detail:				
16" line pipe as conductor set at 20'				
9-5/8" 36# K-55 STC seamless casing cemented at 418'				
WELL PLUGGED AND ABANDONED 11-25-85				
<i>Kwang U. Park</i> 2/14/86 Kwang U. Park District Drilling Superintendent				

Old TD	New TD 2532'	PB Depth				
Released rig	Date 11-25-85	Kind of rig Rotary				
Classifications (oil, gas, etc.) Gas - Dry Hole		Type completed on (single, dual, etc.) N/A				
Producing method N/A		Official reservoir name(s) N/A				
Potential test data						
Well no.	Date	Reservoir	Producing interval	Oil or gas	Test time	Production
						Oil on test
						Gas per day
Pump size, SPM X length	Choke size	T.P.	C.P.	Water %	GOR	Gravity corrected
						Allowable
						Effective date

The above is correct

Signature <i>B. E. DAVIS</i>	Date 2/14/86	Title DISTRICT DRILLING SUPERVISOR
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