

ARCO Oil and Gas Company

Well History - Initial - Report - Daily

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 ARCO Western District | County, parish or borough CLATSOP CO. | State OR |
| Field MIST | Lease or Unit OREGON 34-25-66 | Well no. |
| Auth. or W.O. no. R47300--API #39-007-00022 | Title NEW DRILL | |

| | |
|--------------------------------------|---|
| Operator ARCO | ARCO W.I. 100.0000 |
| Spudded or W.O. begun SPUD | Date 10/11/89 Hour 11:30 Prior status if a W.O. |
| Date and Depth as of 8:00 a.m. | Complete record for each day reported TAYLOR 4 |

10/12/89 (1) TD: 455' (415) CIRC FOR CSG MW: 8.9 VIS: 74 Spud 11:30 hrs 10/11/89. Drilled to 45', lost circ around conductor. Circ LCM pill. Drilled to 455'. Circ, wiped hole to sfc.

10/13/89 (2) TD: 455' (0) RIH 9-5/8" @ 455' MW: 8.7 VIS: 41 Wiped hole to sfc, no fill. Circ clean. POH. Ran 11 jts 9-5/8", 36#, J-55, STC casing w/ shoe @455', float collar @408'. Howco pumped 250 cf G cmt + 2% CaCl2 + .25 #/sx Flocele. Preceded cmt w/ 10 bbl water & disp w/ 32 bbl water. Had full circ & recip thru job w/ 7 bbls cmt rtns to sfc. Bumped plug w/ 1000 psi. CIP 11:00 hrs, 10/12/89. WOC. Installed 9-5/8" SOW x 11", 3M casing head. Test weld to 1500 psi. NU BOPE. Tested BOPE to 1000 psi, witnessed by Dan Wermiel, DOGMI. RIH w/ 8-1/2" bit, tested bag & pipe rams. Drilled out shoe & 5' of new formation. Tripped for 6-1/4" bit and BHA.

10/14/89 (3) TD: 1200' (745) WIPE HOLE 9-5/8" @ 455' MW: 8.9 VIS: 47 RIH. Drilled 6-1/4" hole to 654'. Wiped hole. Drilled to 833'. Wiped hole. Drilled to 1014'. Wiped hole. Drilled to 1200'. Wiped hole.

10/15/89 (4) TD: 1662' (462) TRIP FOR BIT 9-5/8" @ 455' MW: 9.4 VIS: 52 Drilled to 1353'. Wiped hole. Drilled to 1445'. Wiped hole. Drilled to 1537'. Wiped hole. Drilled to 1662'. Tripped for bit.

10/16/89 (5) TD: 2281' (619) WIPE HOLE 9-5/8" @ 455' MW: 9.5 VIS: 46 RIH. Drilled to 1785'. Wiped hole. Drilled to 1908'. Wiped hole. Drilled to 2281'.

10/17/89 (6) TD: 2452' (171) LOGGING 9-5/8" @ 455' MW: 9.7 VIS: 47 Wiped hole 2281'-1868'. Hole free. Drilled to 2452'. Circ BU. COOH. Howco RIH w/ DIG/AVL/GR/CAL, stopped @ 1800'. RIH w/ BHA to 1800'. Broke circ. Spot reamed to 2452'. Circ. Wiped hole to 1800'. POH. Ran DIG/AVL/GR/CAL. WOO. Ran Dipmeter.

10/18/89 (7) TD: 2452' (0) RELEASE RIG 9-5/8" @ 455' MW: 0.0 VIS: Ran Dipmeter 2440'-1300'. RIH, circ & cond mud. POH, ID BHA. RIH w/ OEDP to 554'. Equalized 83 cf G cmt + 3% CaCl2. CIP 15:15 hrs, 10/17/89. WOC. Tagged cmt @330', witnessed & app'd by DOGMI. POH. ND BOPE. Cut casing. Set 10 sx sfc plug. Welded on P & A plate. RR 23:00 hrs, 10/17/89.

The above is correct

| | | |
|---------------------------------|-----------------------|--|
| Signature <i>R. D. Watts</i> | Date 2/5/90 | Title DISTRICT DRILLING ENGINEER |
|---------------------------------|-----------------------|--|

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. **2 of 2**

AROB-459-3-D

Well History - Initial - Report - Daily

ARCO Oil and Gas Company

Well History - Final Report

| | | |
|--|-------------------------------------|-----------------------------|
| District WESTERN | County, or Parish CLATSOP | State OR |
| Field MIST | Lease or Unit OREGON | Well no. 34-25-66 |
| Auth or W. O. no. API # 39-007-00022 | Title NEW DRILL | |

Location:
SHL: 2247' W & 326' N OF SE CORNER, TOWNSHIP 6 NORTH, RANGE 6 WEST, WWM
BHL: SAME

| | |
|---|--|
| Operator ARCO OIL AND GAS COMPANY | ARCO W.I. 100% |
| Spudded or W.O. begun SPUD | Date 10/11/89 Hour 1130 HRS Prior status if W.O. |

ALL MEASUREMENTS KB= 11' GROUND ELEVATION: 685'

CASING DETAIL:

JUNK: None

| Casing | Top of Casing | Shoe Depth | Weight | Grade | New/Used | Hole Size | *Cement |
|---------|---------------|------------|--------|-------|-----------|-----------|---------|
| 13-3/8" | Surface | 40' | 54.5# | K-55 | Conductor | | |
| 9-5/8" | Surface | 455' | 36# | J-55 | New | 12-1/4" | 250 cf |
| | | | | | | | |
| | | | | | | | |

E-Logs: DIG/AVL/GR/CAL f/2452'-surface; Dipmeter f/2440'-1300'

Gravel Pack: N/A

Slotted Liner: N/A

Perforations: N/A

Plugs: 83 cf cement f/554'-330'; 10 sx cement surface plug

S.W.S: N/A

Geological Markers: Top Kensey Fm = 947'MD; Top Cowlitz Fm = 1520'MD; Top C&W Sands = 1916'MD; Top N-Shale = 2070'MD; Base C & W Sands = 2367'MD

*Depth of Cementing (if through perforations): N/A

| | | |
|---|---|--|
| Old TD | New TD 2452' | PB Depth SURFACE |
| Released 2300 HRS | Date 10/17/89 | Kind of Rig ROTARY (TAYLOR #4) |
| Classification (oil, gas, etc.) PLUGGED AND ABANDONED | Type of completion (single, dual, etc.) N/A | |
| Producing Method N/A | Official Reservoir name(s) | |
| Initial Production | Oil Rate | Gravity |
| Production After 30 Days | Oil Rate | Gravity |
| Signature <i>R. D. Watts</i> | Date 2/5/90 | Title DISTRICT DRILLING ENGINEER |

Arco Oil and Gas Company
P.O. Box 147
Bakersfield, CA 93302

Kwanal Park 2/6/90
Kwanal Park
District Drilling Superintendent