<table>
<thead>
<tr>
<th>Date</th>
<th>TD:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/26/90</td>
<td>1306'</td>
<td>5-1/2''8 1306' SDFNM, ACCEPT RIG 1300 HRS. RAN ATLAS, PIN W/SINKER BARS &amp; CCL T/1042'. TAG TOP OF RIG. SPUD ON FISH. RIG T/1053', TOP, TD MUD. TD ATLAS, SECTURE WEL. NO TRUCKS AVAIL. T/MOVE IN PUMP &amp; BOPE TO LOCATION. SHUT DOWN F/NIGHT.</td>
</tr>
<tr>
<td>10/27/90</td>
<td>1306'</td>
<td>5-1/2''8 1306' SDFNW</td>
</tr>
<tr>
<td>10/28/90</td>
<td>1306'</td>
<td>5-1/2''8 1306' SDFNW</td>
</tr>
<tr>
<td>10/29/90</td>
<td>1306'</td>
<td>5-1/2''8 1306' RIG RELEASED</td>
</tr>
<tr>
<td>11/02/90</td>
<td>1306'</td>
<td>5-1/2''8 1306' OPEN WEL &amp; FLOWED FOR 1 HR. FLOW STARTED AS DRY GAS. THEN MIST/SLUG FLOW. GAVE NO INDICATION OF DRYING UP. SHUT IN WELL.</td>
</tr>
</tbody>
</table>

The above is correct.

Sgd: [Signature]

Date: 11/29

Title: DISTRICT DRILLING ENGINEER

Number of page to be logged here consecutively as they are submitted for each well

Page no: 1 of 2
<table>
<thead>
<tr>
<th>Date</th>
<th>TD: 1306'</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/03/99</td>
<td>5-1/2&quot;8 1306'</td>
<td>TDG PRESS 270 PSI. OPEN WELL 6 FLOODED FOR 1 HR. FLOW STARTED AS DRY GAS, THEN MIST/SLUG FLO. GAVE NO INDICATION OF DRYING UP. SHUT IN WELL.</td>
</tr>
<tr>
<td>11/04/99</td>
<td>5-1/2&quot;8 1306'</td>
<td>CHECK WELL. SITP = 265 PSI. WELL HAS BEEN FLOWING A TOTAL OF 6 HRS SINCE RECOMPLETION. SITP WAS 270 PSI 6 RIG RELEASE.</td>
</tr>
<tr>
<td>11/06/99</td>
<td>5-1/2&quot;8 1306'</td>
<td>STATUS RPT - TOPS WELL TURNED OVER TO NGDC. NEEDS COMPRESSOR.</td>
</tr>
</tbody>
</table>

Signature: [Signature]

Date: 11/7/91

Title: DISTRICT DRILLING ENGINEER
AtlanticRichfieldCompany

**Daily Well History – Initial Report**

**District:** WESTERN  
**County or Parish:** COLUMBIA COUNTY  
**State:** OREGON

**File:** MIST  
**Lease or Unit:** LONGVIEW FIBRE  
**Auth. or W.O. no.:** R46095  
**Title:** DRILL & EVALUATE

**578.08' S & 2187.13' E OF W 1/4 CORNER, SEC 25, T6N, R5W, W8M**

**Operator:** ARCO EXPLORATION COMPANY  
**A.R.CO's W.I.:** 0.875000

**Spudded or W.O. began:** SPUDDED  
**Date:** 12-1-85  
**Hrs:** 1800 Hrs

**Date and depth at which R.R. began:** 12-2  
**Complete record for each day reported:** 1985

**LONGVIEW FIBRE #23-25 – (Mist) – AFE # R46095**

**AET**

**TD:** 340' (320') – Drilling  
**MUD:** 8.7 ppg  
**VIS:** 82  
**PV/YP:** 11/33  
**WL:** NC  
**Casing:** 16" @ 20'

Spud well at 1800 hrs., 12-1-85. Drill 12-1/4" hole and survey to 340'.

**LONGVIEW FIBRE #23-25 – (Mist) – AFE # R46095**

**AET**

**TD:** 431' (91') – NU BOP  
**MUD:** 8.8 ppg  
**VIS:** 65  
**Cell & water**  
**Casing:** 9-5/8" @ 417'

Drill and survey to 431'. RU and run IP log from 431' - 40'. Make conditioning trip. RU and run 10 joints of 9-5/8" 365 K-55 STC casing with shoe at 417', float collar at 374'. Mix and pump 39 bbls Class G + 0.25 8/30k Clay-flake + 3% CaCl2 mixed at 15.8 ppg. CIF at 2000 hrs., 12-2-85. WOC, Cut 9-5/8" casing. Weld on head and test to 1500 psi. NU BOP.

**LONGVIEW FIBRE #23-25 – (Mist) – AFE # R46095**

**AET**

**TD:** 552' (121') – Drilling  
**MUD:** 8.7 ppg  
**VIS:** 47  
**PV/YP:** 9/6  
**WL:** 6.8

NU and test BOP. Tag float collar at 370', drill to 395'. Test casing to 2500 psi. Drill out cement and new hole to 439'. Circulate hole clean. Perform leakoff test, EHW = 23.0 ppg. Trip for BHA. Drill 8-3/4" hole and survey to present depth.

**LONGVIEW FIBRE #23-25 – (Mist) – AFE # R46095**

**AET**

**TD:** 1176' (624') – Prepare to circulate and kill well  
**MUD:** 10.1 ppg  
**VIS:** 46  
**PV/YP:** 9/7  
**WL:** 5.6

**Casing:** 9-5/8" @ 417'

Drill and survey to 831'. POOH and change BHA. RIH. Drill and survey to 930'. Build mud weight from 9.6 to 10.0 ppg. Drill and survey to 1176'. Circulate hole clean. POOH for new BHA. Well swabbing. Pick up Kelly, circulate 2000 units gas. RIH to bottom and circulate. Pull 3 stands, well swabbed in. Shut well in. Drill pipe pressure 500 psi, casing pressure 425 psi. Build mud weight. Prepare to circulate and kill well.

**LONGVIEW FIBRE #23-25 – (Mist) – AFE # R46095**

**AET**

**TD:** 1428' (252') – Drilling  
**MUD:** 13.1 ppg  
**VIS:** 51  
**PV/YP:** 13/10  
**WL:** 5.6

**Casing:** 9-5/8" @ 417'

Weight up to 11.2 ppg. Circulate 11.2 ppg mud around. Shut well in. Weight up to 11.7 ppg. Circulate. Weight up to 13.0 ppg. Circulate mud around. Well dead. RIH to 1163'. Hit bridge. Clean out to 1176'. Drill 8-3/4" hole and survey from 1176' to present depth.

---

The above is correct.

**Signature:**  
**Date:** 2/13/86

**Title:** DISTRICT DRILLING SUPERVISOR
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Field</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-7-85</td>
<td>6:00</td>
<td>LONGVIEW FIBRE</td>
<td>COLUMBIA COUNTY</td>
<td><strong>(Mist)</strong> AET 1979' 351' Circulating 13.1 PPG VIS 53 PF/YP 11/6 W 5.6 CASING 9:5/8' @ 417' Drill and survey to present depth. Make wiper trip. RUP and run IF log from 1937' 700' run DIL/SF/Sonic/GR from 1976' 417' run CCL/F6C/GR from 1976' 417' Make clean out run. Run DIP meter from 1976' 417' run VSP from 1979' 1725'. Stuck tool with top at 1712' Work same and wait on fishing tools Strip over to 30' above fish and circulate.</td>
</tr>
<tr>
<td>12-10</td>
<td></td>
<td>LONGVIEW FIBRE</td>
<td>COLUMBIA COUNTY</td>
<td><strong>(Mist)</strong> AET 1979' 0' WOC MUD 12.5 PPG VIS 48 PF/YP 14/6 W 5.0 CASING 9:5/8' @ 417' Workover fish POOH with same Stage in hole to 1979' Circulate and condition mud Shoot SWCs RIH open ended to 1450' Mix and pump 75$ Class G + 3% KCl + 1% D-27 + 75% D-65 + 4% gel mixed at 15.8 ppg CIP at 0600 hrs 12 10 - 85 estimated TOC at 1245'</td>
</tr>
<tr>
<td>12-11</td>
<td></td>
<td>LONGVIEW FIBRE</td>
<td>COLUMBIA COUNTY</td>
<td><strong>(Mist)</strong> AET 1979' 0' - RU to running casing MUD 12.5 PPG VIS 48 PF/YP 13/7 W 5.6 CASING 9:5/8' @ 417' Pull to 1150' Circulate and condition mud POOH RIH and tag TOC at 1267' polish to 1308' Make wiper trip POOH Lay down drill pipe Change pipe rams to 5 - 1/2'</td>
</tr>
<tr>
<td>12-12</td>
<td></td>
<td>LONGVIEW FIBRE</td>
<td>COLUMBIA COUNTY</td>
<td><strong>(Mist)</strong> AET 1979' 0' Prepare to run bond log MUD 12.5 PPG VIS 46 PF/YP 13/7 W 5.6 CASING 5:1/2' @ 1305' Run and run 34' of 5 - 1/2' 178 K-55 HSC casing with shoe at 1305' float collar at 1219' Mix and pump 37$ Class G + 3% KCl + 1% D-27 + 75% D-65 + 4% gel mixed at 14.5 ppg followed by 110$ Class G + 3% KCl + 1% D-27 + 25% D-65 + 1.67 gal/sq D-600 mixed at 15.8 ppg CIP at 1215 hrs 12 - 11 - 85 ND BOP Cut and land 5 - 1/2' casing Land tubing head and test to 1500 psi RIH with 2 - 3/8' tubing with bit and scraper Tag cement at 1150' Change over to water POOH with tubing</td>
</tr>
<tr>
<td>12-13</td>
<td></td>
<td>LONGVIEW FIBRE</td>
<td>COLUMBIA COUNTY</td>
<td><strong>(Mist)</strong> AET 1979' 0' (corrected) Prepare to squeeze MUD 12.7 PPG VIS 42 PF/YP 13/19 W 12.0 CASING 5:1/2' @ 1305' POOH Run CCL/CET from 1143' 100' Run VSP from 1143' 417' RIH to 1144' Circulate mud to well POOH Perforate 172' HFP at 1070' Test perfor. to 600 psi bled to 100 psi in 30 sec Set Baker Model K-1 retainer at 1060' RIH with stab-in assembly Prepare to squeeze</td>
</tr>
</tbody>
</table>

The above is correct

**Signature**: B. S. DAVIS

**Date**: 9/13/85

**Title**: DISTRICT DRILLING SUPERVISOR

---

*Note: The above history form is continuously as they are prepared for each well.*
LONGVIEW FIBRE #23-25 - (Mist) - Taylor Rig #4 - AFE # R46095

AET

PDE: 1060' - Release rig

Attempt to establish breakdown rate, tool leaked. POOH. RIH and establish injection rate of 2 BPM at 1000 psi. Mix and pump 50 sacks Class G mixed at 15.8 ppg. CIP at 1212 hrs, 12-13-85. Sting out, reverse out.

Test casing to 2000 psi. Hang tubing at 950'. ND BOP, NU tree. Change over to KCL water. RIH with 1-1/16" Enerjet thru tubing gun and perforate 4 HPF from 1010' - 1024' (36 holes). POOH with guns to 766', guns stuck. Fall out of rope socket. Pump 40 bbl of CaCl2/KCL mixed at 10.5 ppg down well, and circulate. Install BPV, ND tree, NU BOP and test to 1000 psi. POOH with tubing. Recover CCL perf tool. Left 16-1/2' of gun carrier in hole. RIH open ended to 947'. Set BPV. ND BOP, NU tree and test to 3000 psi. Displace with N2. Test well. Release rig at 2400 hrs, 12-15-85.
**ARCO Oil and Gas Company**

**Daily Well History – Final Report**

**District**: WESTERN  
**County or Region**: COLUMBIA COUNTY  
**Field**: MIST  
**County or City**: LONGVIEW FIBRE  
**State**: OREGON  
**Accounting cost center code**: MB-20932

**Auth. or W.O. no.**: R46095  
**API #:**: 36-009-00179  
**Title**: DRILL & EVALUATE  
**BBL**: 578.00'  
**GAL**: 2187.15'  
**E of W**: 1  
**CORN: Sec 23, T16N, R31W, W1/2N**  
**BBL**: 286.05'  
**N of S**: 603.63'  
**W from SBL**:

**Operator**: ARCO EXPLORATION COMPANY  
**W.L.**: 0.875000  
**Total number of wells listed or inactive**:  
**Date prior to plugging and abandonment**:  
**Date begun**: 12-1-85  
**Time**: 1800 HOURS  
**Spud**:

**Rate and depth**:  
**Complete record for each day reported**:

### ALL MEASUREMENTS KB = 11

**PRESENT CONDITION OF HOLE**

**Total Depth**: 1979'  
**Plugback Depth**: 1060'  
**Junk**: 16-1/2' of gun carrier  
**Plugs**: 1060' Baker Model K-1 Retainer  
1144' - 1305'  
1308' - 1450'  
**Casing Detail**:  
16' line pipe as conductor set at 20'  
9-5/8' 36# K-55 STC seamless casing cemented at 417'  
5-1/2' 17# K-55 STC liner cemented at 1305'  
**Perf'd**: four 1/2" NHF at 1070' (squeezed with 50 sq cement)  
4 HPF from 1010' - 1024' (6 holes) using 1-11/16' Enerjet thru tubing gun  

---

**Kwang U. Park**  
District Drilling Superintendent

### Old TO & New TO

<table>
<thead>
<tr>
<th>Old TO</th>
<th>New TO</th>
<th>PD Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979'</td>
<td>1060'</td>
<td></td>
</tr>
</tbody>
</table>

**2400 HOURS**  
**Date**: 12-15-85  
**Kind of rig**: Rotary  
**Classification (oil, gas, etc.)**: Single

**Producing method**:  
**Height of fluid column (seasonal)**:  
**Potential test date**:  
**Oil or gas**:  
**Test time**:  
**Production**:  
**Oil on test**:  
**Gas per day**:  

<table>
<thead>
<tr>
<th>Well no.</th>
<th>Date</th>
<th>Reservoir</th>
<th>Producing Interval</th>
<th>Oil or gas</th>
<th>Test time</th>
<th>Production</th>
<th>Oil on test</th>
<th>Gas per day</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-25</td>
<td>12-15-85</td>
<td>C&amp;W Sand</td>
<td>1010' - 1024'</td>
<td>Gas</td>
<td></td>
<td></td>
<td></td>
<td>1184 MCFPD</td>
</tr>
</tbody>
</table>

**Pump size, SPV x length**

<table>
<thead>
<tr>
<th>Choke Size</th>
<th>T.P.</th>
<th>C.P.</th>
<th>Water %</th>
<th>GOR</th>
<th>Gravity Corrected</th>
<th>Allowable</th>
<th>Effective Date</th>
</tr>
</thead>
</table>

**The above is correct**

**Signature**:  
**B. E. DAVIS**  
**Date**: 2/3/86  
**Title**: DISTRICT DRILLING SUPERVISOR

For form preparation and distribution, see Procedures Manual, Section 10, Drilling, Pages 33 and 87.

Number all daily well history forms conservatively  
As they are prepared for each well.

Division of AtlanticRichfield Company
STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
910 State Office Building  Portland, OR  97201

MISCELLANEOUS APPLICATION
(In compliance with rules and regulations pursuant to ORS 520)

ARCO Oil & Gas Company  Longview Fibre  23-25-65
(Company or operator) (Lease) (Well No.)
Sec. 25  T. 6N  R. 5W  M.B.M. Surveyed Coordinates: 578.08'S & 2187.13'E
from W/4 Corner, Sec. 25-T6N/R5W

Wildcat:  (or) Field Name: Mist  County: Columbia
Signature:  
Position: District Drilling Superintendent
Date:  July 24, 1990

Use this form for applications to redrill, deepen, rework, abandon, or any other proposed procedure on an existing well.

This form must be submitted unless verbal approval has been given. This application becomes a permit when signed and dated by DOGAMI in the box below.

The present condition of the well, including complete casing record, is as follows:

Casing  Perforations  Current Status
16" @ 20'  1010-1024'  Shut-in (Depleted)
9-5/8", 36# @ 417'  1070' (Squeezed)  SITP = 225 psig
5-1/2", 17# @ 1306'  2-3/8" tubing hung @ 947'
16' of fish (expended perf gun) on top of cement retainer @ 1060'.
Cement plugs 1144-1306', 1306-1450'.

Following is a detailed account of proposed work:

Pull tubing, retrieve fish. Perforate 1042-1052'. Return to production through tubing.

If workover is unsuccessful, plug and abandon the well as follows:
1. RIH w/tubing & lay plug from 1060-900'.
2. WOC, RIH. Tag top of plug.
3. Fill hole w/mud.
4. Set 10' surface plug.
5. Cut casing; remove wellhead.
6. Cap well; reclaim site.

Company/Operator ARCO Oil & Gas Company
Signature  
Position  District Drilling Superintendent
Date  7-24-90
SEND WELL COMMUNICATION TO:
Name  Kwang-U Park
Address  P. O. Box 147  Bakersfield, CA  93302
Phone  (805) 321-4000

DOGAMl Approved  September 25  1990
The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMl 24
hours prior to commencement of operations.

By  Dan E. Wermiel, Petroleum Geologist
Form 2  (12/85)