

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	Lease or Unit Longview Fibre	Well no. 23-25-65
Auth. or W.O. no. API #009-00179	Title Perforate & Return to Production	

Section 25, Township 6 North, Range 5 West (Property Code M830016F2)

Operator ARCO OIL AND GAS COMPANY	ARCO W.I. 100%
Spudded or W.O. begun	Date 10/26/90
Workover	Hour
Date and depth as of 8:00 a.m.	Prior status if a W.O. Shut-In

Date and depth as of 8:00 a.m.	Complete record for each day reported
10/26/90 (1) TD: 1306'	5-1/2" @ 1306' SDFN MIRU. ACCEPT RIG 1300 HRS. RUN ATLAS, RIH W/SINKER BARS & CCL T/1042'. TAG TOP OF FISH. SPUD ON FISH, N.G. TOH. RD ATLAS, SECURE WELL. NO TRUCKS AVAIL T/MOVE IN PUMP & BOPE TO LOCATION. SHUT DOWN F/NIGHT.
10/27/90 (2) TD: 1306'	5-1/2" @ 1306' SDFN WAIT ON PUMP & PIT. TRUCK STUCK @ PREV LOC. RU T/KILL WELL. KILL W/LEASE WATER 25.6 BBLS. SET BPSV, ND TREE, NU BOPE. PULL BPSV. INSTALL SAFETY VLV. SI WELL, SDFN.
10/28/90 (3) TD: 1306'	5-1/2" @ 1306' SDFN CHK WELL, NO PRESS. FILL HOLE, TOOK 9 BBLS. TIH OETBG, TAG FISH @1042'. SPUD ON FISH, MOVED DN 4' T/1046'. TOH, MU JUNK MILL, TIH. MILL & WORK JUNK T/1051'. TOH, LD MILL. TIH W/OE TBG & WL GUIDE T/910'. RU ATLAS, TIH W/SINKER BARS & CCL T/1051, OK. TOH, RD ATLAS. LAND TBG @ 910. SET BPSV, ND BOPE NU TREE, PULL BPSV. RU ATLAS, TIH W/1-11/16" STRIP GUNS, PERF 1042-1052, 4SPF. TOH W/GUNS, ALL SHOTS FIRED, RD ATLAS. NO PRESS ON TBG. FLUID LVL @65' WHEN PERF'D. RU & SWAB WELL. WELL STARTED FLOWING. FLOWED F/1 HR, FLOWING WATER. SI WELL.
10/29/90 (4) TD: 1306'	5-1/2" @ 1306' RIG RELEASED SITP 270 PSI. OPEN WELL, FLOW TO CLEAN UP WATER. WELL FLOWS MED-HEAVY MIST @125 PSI FTP. SHUT IN WELL. SITP 250 PSI. RIG DOWN, RELEASE RIG 0930 HRS 10/29/90.
11/02/90 (5) TD: 1306'	5-1/2" @ 1306' OPEN WELL & FLOWED FOR 1 HR. FLOW STARTED AS DRY GAS, THEN MIST/SLUG FLOW. GAVE NO INDICATION OF DRYING UP. SHUT IN WELL.

The above is correct

Signature <i>R.D. Jatts</i>	Date 11/7/91	Title DISTRICT DRILLING ENGINEER
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For form preparation and distribution, see Procedures Manual, Section 10, Drilling, Pages 86 and 87

Daily Well History - Interim



Instructions: This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "Interim" sheets until final completion. Report official or representative test on "Final" form. 1) Submit "Interim" sheets when filled out but not less frequently than every 30 days, or (2) 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	State OR
Field Mist	Lease or Unit Longview Fibre	Well no. 23-25-65

Date and depth as of 8:00 a.m.	Complete record for each day while drilling or workover in progress
11/03/90 (6) TD: 1306'	5-1/2"@ 1306' TBG PRESS 270 PSI. OPEN WELL & FLOWED FOR 1 HR. FLOW STARTED AS DRY GAS, THEN MIST/SLUG FLOW. GAVE NO INDICATION OF DRYING UP. SHUT IN WELL.
11/04/90 (7) TD: 1306'	5-1/2"@ 1306' CHECK WELL, SITP = 265 PSI. WELL HAS BEEN FLOWING A TOTAL OF 6 HRS SINCE RECOMPLETION. SITP WAS 270 PSI @ RIG RELEASE.
11/06/90 (8)	5-1/2"@ 1306' STATUS RPT - TOPS WELL TURNED OVER TO ONGDC. NEEDS COMPRESSOR.

The above is correct

Signature <i>R. D. Jette</i>	Date 11/7/91	Title DISTRICT DRILLING ENGINEER
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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.

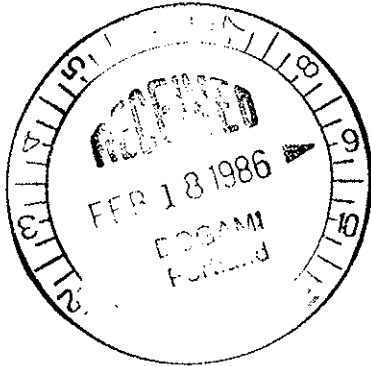
District WESTERN	County or Parish COLUMBIA COUNTY	State OREGON
Field MIST	Lease or Unit LONGVIEW FIBRE	Well no. 23-25
Auth. or W.O. no. R46095	Title DRILL & EVALUATE	

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

Operator ARCO EXPLORATION COMPANY	A.R.Co's W.I. 0.875000		
Spudded or W.O. begun SPUDED	Date 12-1-85	Hour 1800 Hrs	Prior status if a W.O.

Date and depth as of 8:00 a.m.	Complete record for each day reported 1985
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- 12-2 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'.
- 12-3 LONGVIEW FIBRE #23-25 - (Mist) - AFE # R46095 AET
TD: 431' (91') - NU BOP
MUD: 8.8 ppg VIS: 65 Gel and 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 jts of 9-5/8" 36# K-55 STC casing with shoe at 417', float collar at 374'. Mix and pump 39 bbls Class G + .25 #/sk Celloflake + 3% CaCl₂ mixed at 15.8 ppg. CIP at 2000 hrs, 12-2-85. WOC. Cut 9-5/8" casing. Weld on head and test to 1500 psi. NU BOP.
- 12-4 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 CASING: 9-5/8" @ 417'
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, EMW = 23.0 ppg. Trip for BHA. Drill 8-3/4" hole and survey to present depth.
- 12-5 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.
- 12-6 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 B. E. DAVIS <i>B. E. Davis</i>	Date 2/13/86	Title DISTRICT DRILLING SUPERVISOR

For form preparation and distribution, see Procedures Manual, Section 10, Drilling, Pages 86 and 87.

Instructions: This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "interim" sheets until final completion. Report official or representative test on "Final" form. 1) Submit "interim" sheets when filled out but not less frequently than every 30 days, or (2) 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 LONGVIEW FIBRE	Well no. 23-25
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	
12-7,8,9	LONGVIEW FIBRE #23-25 - (Mist) - AFE # R46095 AET TD: 1979' (551') - Circulating FORMATION: Sand MUD: 13.1 ppg VIS: 48 PV/YP: 11/6 WL: 5.4 CASING: 9-5/8" @ 417' Drill and survey to present depth. Make wiper trip. RU and run IP log from 1937' - 700'; run DIL/SP/Sonic/GR from 1976' - 417'; run CNL/FDC/GR from 1976' - 417'. Make clean out run. Run Dipmeter 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.	
12-10	LONGVIEW FIBRE #23-25 - (Mist) - AFE # R46095 AET TD: 1979' (0') - WOC FORMATION: Sand MUD: 12.5 ppg VIS: 53 PV/YP: 14/6 WL: 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 sx 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'.	
12-11	LONGVIEW FIBRE #23-25 - (Mist) - AFE # R46095 AET PBD: 1308' - RU to run casing MUD: 12.5 ppg VIS: 48 PV/YP: 13/7 WL: 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".	
12-12	LONGVIEW FIBRE #23-25 - (Mist) - AFE # R46095 AET PBD: 1150' - Prepare to run bond log MUD: 12.5 ppg VIS: 46 PV/YP: 13/7 WL: 5.6 CASING: 5-1/2" @ 1305' RU and run 34 jts of 5-1/2" 17# K-55 STC casing with shoe at 1305', float collar at 1219'. Mix and pump 372 sx Class G + 3% KCl + 1% D-127 + .75% D-65 + 4% gel mixed at 14.5 ppg, followed by 110 sx Class G + 3% KCl + 1% D-127 + .25% D-65 + 1.67 gal/sx 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.	
12-13	LONGVIEW FIBRE #23-25 - (Mist) - AFE # R46095 AET PBD: 1144' (corrected) - Prepare to squeeze MUD: 12.7 ppg VIS: 42 PV/YP: 13/19 WL: 12.0 CASING: 5-1/2" @ 1305' POOH. Run CBL/CET from 1143' - 100'; run VSP from 1143' - 417'. RIH to 1144'. Circulate mud to well. POOH. Perforate four 1/2" HPF at 1070'. Test perms 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.	

The above is correct

Signature B. E. DAVIS <i>B. E. Davis</i>	Date 2/13/86	Title DISTRICT DRILLING SUPERVISOR
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Instructions: This form is used during drilling or workover operations. If testing, coring or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "Interim" sheets until final completion. Report official or representative test on "Final" form. 1) Submit "Interim" sheets when filled out but not less frequently than every 30 days, or (2) 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 LONGVIEW FIBRE	Well no. 23-25

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
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12-14,15,16 LONGVIEW FIBRE #23-25 - (Mist) - Taylor Rig #4 - AFE # R46095 AET
 PBD: 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 sx 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 1-11/16" Enerjet thru tubing gun and perforate 4 HPF from 1010' - 1024' (56 holes). POOH with guns to 786', guns stuck. Pull out of rope socket. Pump 40 bbl of CaCl₂/KCl mixed at 10.8 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.

The above is correct

Signature B. E. DAVIS <i>B. E. Davis</i>	Date 2/13/86	Title DISTRICT DRILLING SUPERVISOR
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For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

Instructions: Prepare and submit the "Final Report" on the first Wednesday after allowable has been assigned or well is Plugged, Abandoned, or Sold. "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		Accounting cost center code M8-20932	
Field MIST		Lease or Unit LONGVIEW FIBRE			State OREGON
Auth. or W.O. no. R46095 API #: 36-009-00179		Title DRILL & EVALUATE			
SHL: 578.08' S & 2187.13' E OF W 1/4 CORNER, SEC 25, T6N, R5W, WB&M BHL: 286.05' N & 603.63' W FROM SHL					
Operator ARCO EXPLORATION COMPANY		A.R.Co. W.I. 0.875000	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 12-1-85	Hour 1800 HOURS	Prior status if a W.O.	

Date and depth as of 8:00 a.m.	Complete record for each day reported ALL MEASUREMENTS KB = 11'
<p>PRESENT CONDITION OF HOLE</p> <p>Total Depth: 1979' Plugback Depth: 1060' Junk: 16-1/2' of gun carrier</p> <p>Plugs: 1060' Baker Model K-1 Retainer 1144' - 1305' 1308' - 1450'</p> <p>Casing Detail:</p> <p>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" JHPF at 1070' (squeezed with 50 sx cement) 4 HPF from 1010' - 1024' (56 holes) using 1-11/16" Enerjet thru tubing gun</p> <p style="text-align: right;"><i>Kwang U. Park</i> Kwang U. Park District Drilling Superintendent</p>	

Old TD	New TD 1979'	PB Depth 1060'
Released rig 2400 HOURS	Date 12-15-85	Kind of rig Rotary
Classifications (oil, gas, etc.) Gas	Type completion (single, dual, etc.) Single	
Producing method	Official reservoir name(s)	

Well no.	Date	Reservoir	Producing Interval	Oil or gas	Test time	Production		
						Oil on test	Gas per day	
23-25	12-15-85	C&W Sand	1010' - 1024'	Gas		--	1184 MCFPD	
Pump size, SPM X length	Choke size	T.P.	C.P.	Water %	GOR	Gravity corrected	Allowable	Effective date

The above is correct

Signature B. E. DAVIS <i>B.E. Davis</i>	Date 2/13/86	Title DISTRICT DRILLING SUPERVISOR
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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
Date: July 24, 1990 Signature: Kwang U Park
7/24 Position: District Drilling Superintendent

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'		SICP = 250 psig
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 Kwang U Park
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

DOGAMI Approved September 25, 19 90

The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI 24 hours prior to commencing of operations

By Dan E. Wermiel, Petroleum Geologist