

**AGOIL, INC**



SEP 17 1982

GOLD OIL & GAS CONSV. COMM.

Executive Offices Suite 550  
1800 Southwest First Avenue Portland, OR 97201  
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September 16, 1982

Mr. James McKee  
Oil and Gas Conservation Commission  
State of Colorado  
Room 721  
1313 Sherman St.  
Denver, CO 80203

Dear Mr. McKee:

Per our conversation today I am sending you a plugging procedure and AFE for the Wyoco Victor 15-1 well along with the testing procedure and AFE for the Wyoco Victor 15-1X. As you will see, the AFE costs are on the high side, which reflects the conservative way in which we prepare AFE's. We have every hope that both of these jobs can be done for less money then we have estimated.

If you have any questions regarding these procedures or AFE's, don't hesitate to call.

Yours very truly,

*William G. Malmquist*  
William G. Malmquist

WGM:jab  
Enclosures

Exploration  
Development  
Production

Wyoco-Victor 15-1X  
Testing Procedure



Present Conditions

Total Depth: 6107'  
8-5/8" casing at 368'  
5-1/2", 15.5# casing to 5150'  
Shows in Niobrara (oil) from 5820' to 5950'  
in Morapos (gas) from 3090' to 3110'  
Apparent poor cement bonding from 2660' to 4700'

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Proposed Work

1. Check well head on well. If not adequate for testing, install proper well head on testing head.
2. Move in workover rig.
3. Install BOPE.
4. Pick up 2-3/8" tubing. Run in hole to 6000' and circulate hole clean with brine.
5. Pull tubing. Run back with packer at 5100' $\pm$  and tail of tubing at 5800'.
6. Swab well for 2-3 days to evaluate the productivity of the well.
7. Pull tubing and packer.
8. Move BOPE and move off workover rig.

WGM  
9/02/82

Wyoco Victor 15-1X  
Costs

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|                                  |              |
|----------------------------------|--------------|
| Workover rig 7 days @ \$1800/day | \$12,600     |
| Wellhead modification            | 2,000        |
| 2-3/8" tubing rental             | 4,000        |
| Packer rental                    | 2,000        |
| Swab tank rental                 | 2,000        |
| Transportation                   | 1,000        |
| Supervision                      | 4,400        |
| Brine                            | 1,000        |
| 10% contingency                  | <u>2,900</u> |
|                                  | \$31,900     |

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AFE  
Wyoco Victor 15-1  
Plug and Abandon

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Case I. Everything goes smoothe

|                                   |              |
|-----------------------------------|--------------|
| Workover rig: 3 days @ \$1600/day | \$ 4,800     |
| Cementing                         | 2,000        |
| Cement retainer                   | 1,000        |
| Location work & welding           | 2,000        |
| Supervision                       | 2,700        |
| 10% contingency                   | <u>1,250</u> |
|                                   | \$13,750     |

Case II. Need to squeeze and replug

|                                   |              |
|-----------------------------------|--------------|
| Workover rig: 6 days @ \$1600/day | \$ 9,600     |
| Cementing                         | 5,000        |
| Cement retainer                   | 2,000        |
| Location work & welding           | 2,000        |
| Supervision                       | 4,400        |
| 10% contingency                   | <u>4,600</u> |
|                                   | \$27,600     |



## WYOCO VICTOR 15-1

### PLUGGING PROCEDURE

#### Current Conditions

(Data provided by James McKee, State of Colorado)

Total Depth: 350'+

Casing: 10-3/4" to 158', cemented with 250 sacks  
8-5/8" to 200', cemented with 265 sacks

KB to ground level: 10'

#### Notes:

1. Apparent split in 8-5/8" casing was squeezed with 100 sacks of cement with 1000# of gilsonite on 12/18/80.
2. Retrievable bridge plug was set @ 165' with cement on top. May have been recovered.
3. At TD apparent mine shaft or cavern was encountered.
4. Well currently wide open to atmosphere.
5. Wellsite in terribly dirty condition.
6. No work can be done on 15-1X until this well is plugged and cleaned up.
7. Last work performed 12/12/80.
8. Well located 200' NW of Victor 15-1X.

#### Proposed Work

1. Move in workover rig.
2. Go in and tag bridge plug. If there, retrieve from hole.
3. Run in and tag total depth. Clean out to 350'.
4. Place a 30 sack cement plug on bottom. Wait on cement to set up.
5. Tag cement. If no sign of plug is found, place another plug in the well if and as directed by State of Colorado inspector.
6. If apparent hole in 8-5/8" casing is allowing communication, place cement retainer at 190' and place 30 sack plug on top.
7. Feel for cement. If hard, proceed to next step. If no plug is to be found, squeeze if and as directed by State of Colorado inspector.
8. Place 30 sack plug in casing from 100' to surface.
9. Cut stub of 8-5/8" casing off 3' below ground level.
10. Weld steel plate on top of casing.
11. Clean pits and restore location to original condition.

WGM  
9/7/82