



STATE OF NEW MEXICO  
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

Date: Feb 11, 1991

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

RE: Proposed MC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed NSP \_\_\_\_\_

Proposed DHC \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed PMX \_\_\_\_\_  
Proposed DD \_\_\_\_\_

*Tubingless Comp.*

Gentlemen:

I have examined the application received on Dec. 13, 1990  
for the Merrin Oil and Gas Corp. C.O.U. # 302  
OPERATOR LEASE & WELL NO.

U-3-2410-6W and my recommendations are as follows:  
UL-S-T-R

*Agree*  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

*[Signature]*

## MERRION OIL &amp; GAS CORPORATION

610 REILLY AVE. • P. O. Box 840

FARMINGTON, NEW MEXICO 87499

**RECEIVED**

DEC 13 1990

**OIL CON. DIV.  
DIST. 3**

December 12, 1990

Mr. David Catanach  
New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87503

RE: Request for Administrative Approval on Tubingless Completions

Dear Mr. Catanach:

We request administrative approval for tubingless completions in the following four wells:

<u>WELL</u>	<u>LOCATION</u>
Canyon Largo Unit #302	(J) Section 3, T24N, R6W
Canyon Largo Unit #304	(C) Section 11, T24N, R6W
Canyon Largo Unit #311	(F) Section 3, T24N, R6W
Salazar G 34-1	(K) Section 34, T25N, R6W

These wells have all been producing with piston lift for some time. We have recently pulled the tubing and installed a Concoyle "casing piston" in an effort to increase the production rate from the wells. We received verbal approval from the NMOCD in Aztec to install the casing pistons strictly on a test basis with the understanding that we would eventually need administrative approval from Santa Fe.

A diagram of the casing piston is attached. The main advantages of the casing piston over a tubing piston are as follows:

- a) The casing piston removes all the fluid off of the perforations when it trips as opposed to just the fluid in the tubing. That decreases the back pressure on the formation and increases the flow rate.
- b) There is no "annular back pressure" on the formation when the piston is up, again increasing the flow rate.
- c) Because the casing piston removes more fluid per run than a tubing piston, fewer runs are required, and thus, the wells are producing down the line for more hours of the day than before.

Mr. David Catanach  
NMOCD  
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December 12, 1990

We are excited about the potential of this new tool and have numerous other applications if the test results are positive. Because the wells will produce at higher rates, they will ultimately recover more reserves and thus, protect correlative rights.

Please call me at (505) 327-9801 if you have any questions.

Sincerely,



George F. Sharpe  
Engineer

Attachments

CC: ✓ NMOCD-Aztec, NM  
Warren Blakemore-Concoyle  
Steve Dunn  
Well Files