

March 14, 1957

Oil & Gas Conservation Commission
State of New Mexico
Box 871
Santa Fe, New Mexico

Re: Application for Dual Gas Completion
of Northwest Production Corporation
"E" Well No. 2-33 located in Section
33, T26N, R3W, Rio Arriba Co., N. M.

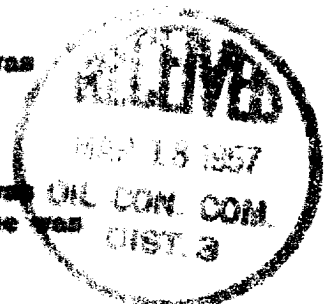
Attention: Mr. A. L. Porter

Gentlemen:

In accordance with Rule 112, paragraph C of the Commission Rules and Regulations, Northwest Production Corporation requests final approval for the dual completion of "E" Well No. 2-33 in the Mesaverde and Pictured Cliffs gas formations. Tentative approval of the plan for drilling and equipping the well was received from Mr. Emory C. Arnold on July 2, 1956. Approval from the United States Geological Survey was received June 23, 1956 of the Notice of Intention to Drill a dual Mesaverde-Pictured Cliffs well.

Following is a resume of the work performed on "E" Well No. 2-33, which is located 1619 feet from the North line and 974 feet from the East line of Section 33, T26N, R3W, Rio Arriba County, New Mexico:

1. Seven inch intermediate casing was set at 4301.20 feet.
2. A 6 $\frac{1}{2}$ inch hole was drilled to 6480 feet and a 5-inch O.D. liner was cemented at 6438 feet. The liner was hung from 4196.51 feet with a Burns liner hanger.
3. The 5-inch liner was perforated from 6300 to 6356 feet and the lower Point Lookout was fractured.
4. A bridge plug was set at 6290 feet, the 5-inch liner was perforated from 6200 to 6230 feet and the upper Point Lookout was fractured.
5. A bridge plug was set at 6190 feet, the 5-inch liner was perforated from 6122 to 6190 feet and the lower Menefee was fractured.



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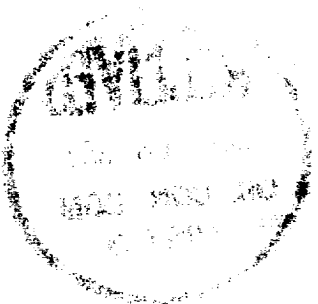
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Oil & Gas Conservation Commission

6. A bridge plug was set at 5860 feet, the 5-inch liner was perforated from 5794 to 5852 feet and the upper Menefee and lower Cliff House were fractured.
7. A bridge plug was set at 5780 feet, the 5-inch casing was perforated from 5740 to 5772 feet and the upper Cliff House was fractured.
8. The bridge plugs were drilled and the hole cleaned out to 6415 feet.
9. A bridge plug was set at 4280 feet, the 7 inch casing was perforated from 4082 to 4108 feet and the Pictured Cliffs was fractured.
10. The bridge plug was drilled and the hole cleaned out.
11. Two-inch EUE tubing was hung at 6345 feet with Baker "EEJ" production packer set at 5702.08 feet and an Otis side-door choke at 5700.99 feet.

The three-hour absolute open flow from the Pictured Cliffs casing-tubing annulus completion was 2,612 Mcf taken on March 13, 1957. The Mesa-verde tubing completion had an absolute open flow of 2014 Mcf taken March 6, 1957.

Attached for your information is a diagrammatic sketch of the dual with pertinent data of the completion.

Mineral rights of all acreage offsetting "E" Well No. 2-33 are held by Northwest Production Corporation.

Should you desire additional information before a formal order approving this dual completion is issued, please advise.

Yours very truly,

NORTHWEST PRODUCTION CORPORATION

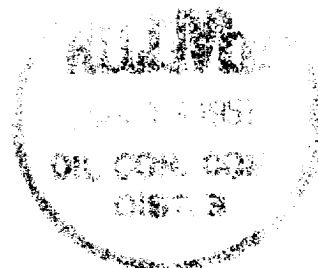
ORIGINAL SIGNED BY
W. R. JOHNSTON

W. R. Johnston, Manager
Production Operations

WBJ/RP/nt
In duplicate
Encl.

cc: Oil Conservation Commission
Aztec, New Mexico

U. S. Geological Survey
Farmington, New Mexico



1. The first part of the report is a general introduction to the subject.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a discussion of the results of the study.

4. The fourth part of the report is a conclusion and a list of references.

5. The fifth part of the report is a list of appendices.

6. The sixth part of the report is a list of figures and tables.

7. The seventh part of the report is a list of footnotes.

8. The eighth part of the report is a list of references.

9. The ninth part of the report is a list of appendices.

10. The tenth part of the report is a list of figures and tables.

11. The eleventh part of the report is a list of footnotes.

12. The twelfth part of the report is a list of references.

13. The thirteenth part of the report is a list of appendices.

14. The fourteenth part of the report is a list of figures and tables.

15. The fifteenth part of the report is a list of footnotes.

16. The sixteenth part of the report is a list of references.

17. The seventeenth part of the report is a list of appendices.

18. The eighteenth part of the report is a list of figures and tables.

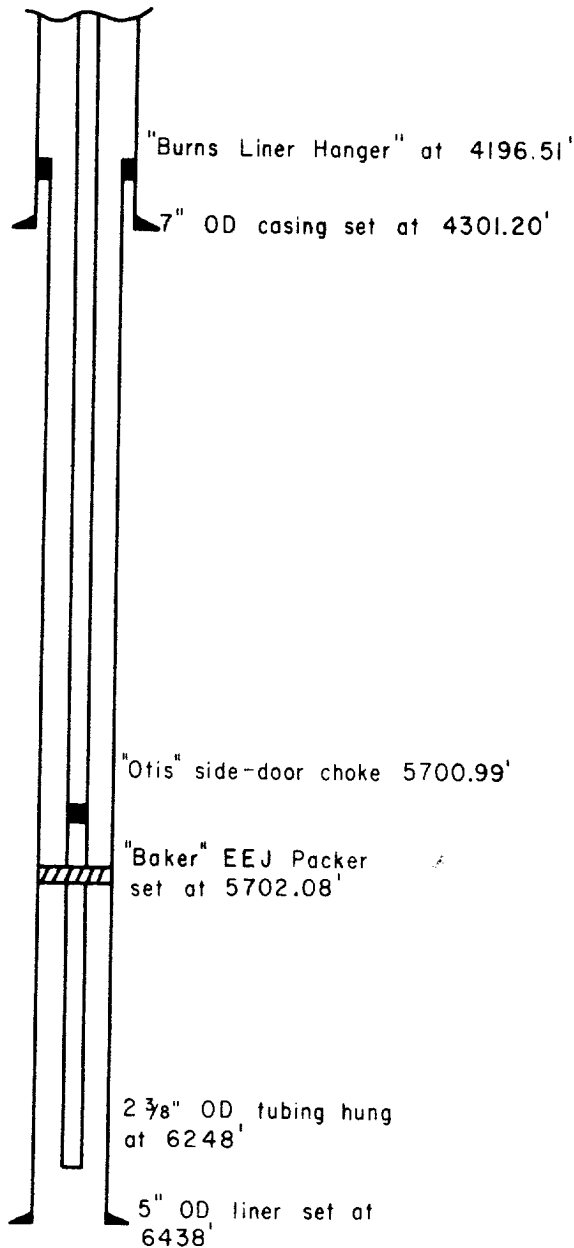
19. The nineteenth part of the report is a list of footnotes.

20. The twentieth part of the report is a list of references.

21. The twenty-first part of the report is a list of appendices.

PICTURED CLIFFS DATA

TOP OF PICTURED CLIFFS 4052'
BOTTOM OF PICTURED CLIFFS 4112'
PERFORATIONS 4082-4108'



MESAVERDE DATA

TOP OF MESAVERDE 5716'
BOTTOM OF MESAVERDE 6358'

PERFORATIONS

CLIFF HOUSE : 5740-5822'
MENESEE : 5838-6180'
POINT LOOKOUT : 6200'-6358'



DIAGRAMATIC SKETCH OF DUAL GAS
COMPLETION FOR "E" WELL 2-33

NORTHWEST PRODUCTION CORPORATION
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR DUAL GAS COMPLETION
OF "E" WELL 2-33 IN PICTURED CLIFFS
AND MESAVERDE FORMATIONS

RIO ARriba COUNTY
NEW MEXICO

CONTRACT # 117

Drawn: W.H. McGahey
Approved: Ray Phillips

Scale 1" = 400'
Date 3-12-57