

# CONTINENTAL OIL COMPANY

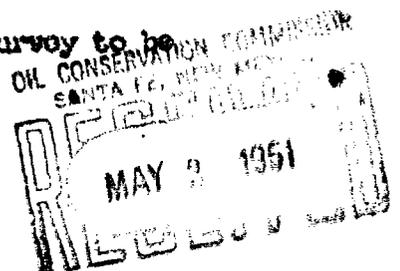
Hobbs, New Mexico  
April 30, 1951

IN THE MATTER OF THE APPLICATION OF  
CONTINENTAL OIL COMPANY FOR AN ORDER  
GRANTING PERMISSION TO DUALY PRODUCE  
H. M. BRITT A-6 NO. 4 WELL, MONUMENT-  
PADDOCK POOL, 2130 FEET FROM SOUTH LINE  
AND 510 FEET FROM THE WEST LINE OF  
SECTION 6, TOWNSHIP 20 SOUTH, RANGE 37  
EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

## APPLICATION

COMES NOW Continental Oil Company, a Delaware Corporation, operating in New Mexico from a field office in Hobbs, New Mexico, and respectfully represents to the Oil Conservation Commission of the State of New Mexico that it has completed the H. M. Britt A-6 No. 4 well, located 2130 feet from the South line and 510 feet from the West line of Section 6, Township 20 South, Range 37 East, N.M.P.M., Lea County, New Mexico. This well was completed 11-20-50 for an initial potential of 68 barrels of oil and 30 barrels of water producing from a perforated interval between 5206 feet and 5218 feet opposite the Paddock formation.

In drilling this well, 7 5/8" intermediate casing was set at 2500 feet and cemented with 677 sacks of cement. The top of the cement behind this casing was determined by temperature survey to be



at 1085 feet. Five and one-half inch production casing was set at total depth 5279 feet, and cemented with 382 sacks of cement, the top of which was found by temperature survey to be at 2650 feet.

Applicant further represents that a high pressure gas zone exists in the 70 feet interval between the intermediate casing shoe at 2580 feet and the top of the cement on the 5 1/2" casing at 2650 feet. The top of the Yates is found at 2375 feet and the Yates interval in this area is approximately 150 feet, therefore, this 70 feet open interval is considered to be in the Seven Rivers formation. That the cementing of the production string effectively prevents communication between the Seven Rivers zone and the Paddock formation is evidenced by the existing pressures in those sections of 1,225 psig and 950 psig respectively. Also, analyses made of gas samples obtained from each zone show a sulphur content of 300 grains per 100 cubic foot in the Seven Rivers gas, and 1360 grains per 100 cubic foot in that from the Paddock. On 12-30-50, an open flow potential test of 1,000,000 cubic feet per day was obtained on the broadhead gas from the Seven Rivers formation.

On the basis of the existing conditions as shown above, it is considered practical and economically feasible to produce the gas from the Seven Rivers formation through the annulus between the 7 5/8" and 5 1/2" casing and liquid hydrocarbons from the Paddock formation through the production casing. Therefore, applicant asks that permission be granted to dually produce this well in the above described manner.

Attached hereto is a plot illustrating the conditions

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existing in the Britt A-6 No. 4 well and the proposed method of production.

Done at Hobbs, New Mexico on this 30th day of April 1951.

Respectfully submitted,  
CONTINENTAL OIL COMPANY

  
J. D. Jacobs  
General Manager

EIS-42  
Encl.

CC: Oil Conservation Commission  
Santa Fe, New Mexico - 3

Oil Conservation Commission  
Hobbs, New Mexico

G. C. Staley  
Hobbs, New Mexico

III-2 IE

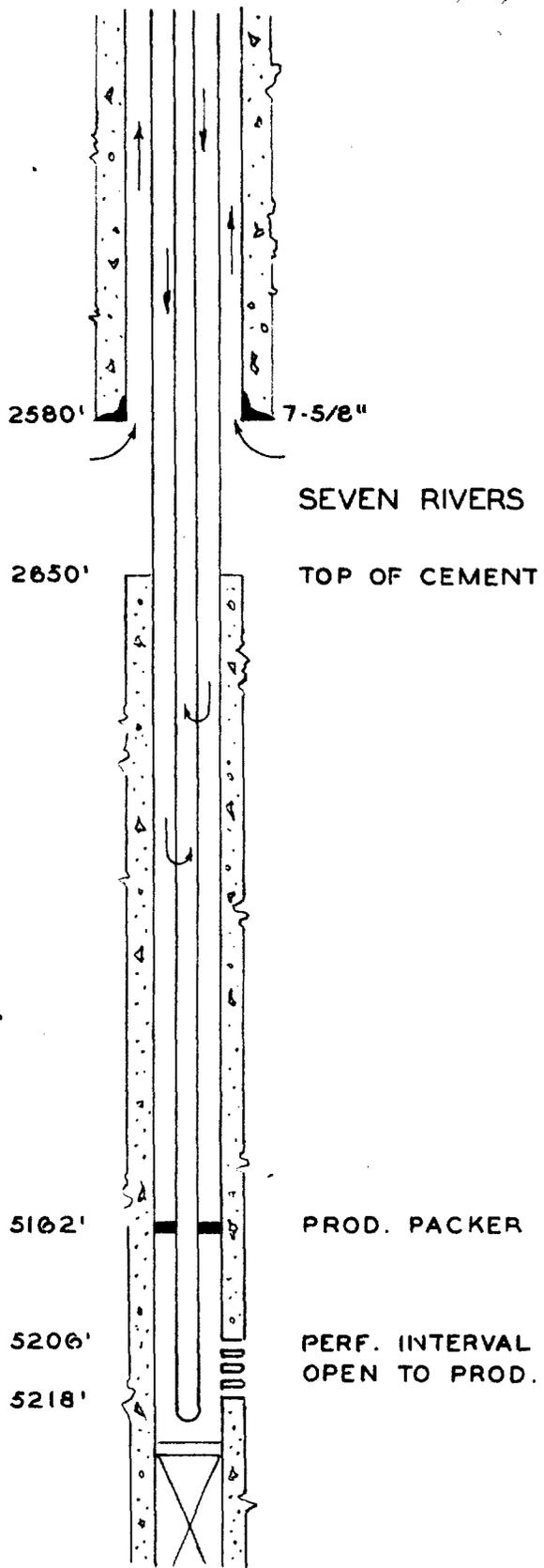
The Texas Company  
Midland, Texas

Amoradi Petroleum Corp.  
Midland, Texas

Wickly Oil Co.  
Hobbs, New Mexico

Sunray Oil Co.  
Hobbs, New Mexico

Anderson-Frithard Oil Corp.  
Hobbs, New Mexico



FLOW VALVES AT:

- 1502'
- 2455'
- 3376'
- 4269'
- 5124'

CONTINENTAL OIL COMPANY  
 BRITT A-6 NO.4  
 PROPOSED METHOD OF GAS-LIFTING

OIL CONSERVATION COMMISSION  
 SANTA FE, NEW MEXICO.

RECEIVED  
 MAY 3 1951



# CONTINENTAL OIL COMPANY

Hobbs, New Mexico  
April 30, 1951

*Case 281*

IN THE MATTER OF THE APPLICATION OF  
CONTINENTAL OIL COMPANY FOR AN ORDER  
GRANTING PERMISSION TO DUALY PRODUCE  
H. M. BRITT A-6 No. 4 WELL, MONUMENT-  
PADDOCK POOL, 2130 FEET FROM SOUTH LINE  
AND 510 FEET FROM THE WEST LINE OF  
SECTION 6, TOWNSHIP 20 SOUTH, RANGE 37  
EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

## APPLICATION

COMES NOW Continental Oil Company, a Delaware Corporation, operating in New Mexico from a field office in Hobbs, New Mexico, and respectfully represents to the Oil Conservation Commission of the State of New Mexico that it has completed the H. M. Britt A-6 No. 4 well, located 2130 feet from the South line and 510 feet from the West line of Section 6, Township 20 South, Range 37 East, N.M.P.M., Lea County, New Mexico. This well was completed 11-20-50 for an initial potential of 68 barrels of oil and 38 barrels of water producing from a perforated interval between 5206 feet and 5218 feet opposite the Paddock formation.

In drilling this well, 7 5/8" intermediate casing was set at 2580 feet and cemented with 677 sacks of cement. The top of the cement behind this casing was determined by temperature survey to be

at 1085 feet. Five and one-half inch production casing was set at total depth 5279 feet, and cemented with 382 sacks of cement, the top of which was found by temperature survey to be at 2650 feet.

Applicant further represents that a high pressure gas zone exists in the 70 feet interval between the intermediate casing shoe at 2580 feet and the top of the cement on the 5 1/2" casing at 2650 feet. The top of the Yates is found at 2375 feet and the Yates interval in this area is approximately 150 feet, therefore, this 70 feet open interval is considered to be in the Seven Rivers formation. That the cementing of the production string effectively prevents communication between the Seven Rivers zone and the Paddock formation is evidenced by the existing pressures in these sections of 1,225 psig and 950 psig respectively. Also, analyses made of gas samples obtained from each zone show a sulphur content of 300 grains per 100 cubic feet in the Seven Rivers gas, and 1860 grains per 100 cubic feet in that from the Paddock. On 12-30-50, an open flow potential test of 1,000,000 cubic feet per day was obtained on the bradenhead gas from the Seven Rivers formation.

*7 Rivers  
gas  
Annular*

On the basis of the existing conditions as shown above, it is considered practical and economically feasible to produce the gas from the Seven Rivers formation through the annulus between the 7 5/8" and 5 1/2" casing and liquid hydrocarbons from the Paddock formation through the production casing. Wherefore, applicant asks that permission be granted to dually produce this well in the above described manner.

Attached hereto is a plat illustrating the conditions

Page 3.

existing in the Britt A-6 No. 4 well and the proposed method of production.

Done at Hobbs, New Mexico on this 30th day of April 1951.

Respectfully submitted,  
CONTINENTAL OIL COMPANY

  
for E. L. SHAFER

EIS-ER  
Encl.

CC: Oil Conservation Commission  
Santa Fe, New Mexico - 3

Oil Conservation Commission  
Hobbs, New Mexico

C. G. Staley  
Hobbs, New Mexico

HLJ-2 HM

The Texas Company  
Midland, Texas

Amerada Petroleum Corp.  
Midland, Texas

Skelly Oil Co.  
Hobbs, New Mexico

Sunray Oil Co.  
Hobbs, New Mexico

Anderson-Prichard Oil Corp.  
Hobbs, New Mexico

