

PERFORATING GUNS ATLAS CORPORATION

Simultaneous

EXHIBIT "F"

Radiation Log

LOG NO.		16346		COMPANY		CONTINENTAL OIL COMPANY				
STATION		HOBBS		WELL		BELL LAKE UNIT # 4				
TRUCK NO.		GR-24		FIELD		BELL LAKE UNIT (DEVONIAN)				
CONTINENTAL OIL COMPANY	BELL LAKE UNIT # 4	BELL LAKE UNIT (DEVONIAN)	LEA	NEW MEXICO	COUNTY STATE		LEA, NEW MEXICO			
					LOCATION		1980' FNL & WL SEC. 6 TWP. 24 S RGE. 34 E			
					LOG MEAS. FROM		1' ABOVE R.T. ELEV. 3627.5			
					DRLG. MEAS. FROM		SAME ELEV. 3627.5			
					PERMANENT DATUM G.L.		ELEV. 3611			
					CASING RECORD		BORE HOLE RECORD			
COMPANY	WELL	FIELD	COUNTY	STATE	SIZE "-WT. #	FROM	TO	BIT SIZE -"	FROM	TO
					9 5/8 - 53.5	SURF	12,434			
					7 - 35	"	14,561	8 3/8		
					5 - 18	14,366	15,567	5 7/8		
TYPE OF LOG				GAMMA RAY - NEUTRON						
RUN NO.				ONE						
DATE				4-28-57						
TOTAL DEPTH - DRILLER				15,566						
TOTAL DEPTH - P.G.A.C.				15,567						
FLUID IN HOLE				MUD - 10#						
FLUID LEVEL										
MAXIMUM TEMPERATURE °F.										
INSTRUMENT O.D. AND NO.				3 5/8 - 207						
INSTRUMENT TYPE				TA - PH 125						
NEUTRON SOURCE TYPE				RB - 600						
CPS FOR CALIB. STD. - GR				100						
- N				240						
RECORDED BY				J. BRAUNER						
WITNESSED BY				D. LANNEN						

EXHIBIT "B"

BELL LAKE UNIT
LEA COUNTY, NEW MEXICO

PARTICIPATING AREA
PENNSYLVANIAN SAND

Lessee:	Ora R. Hall, Jr.
Serial Number:	Las Cruces 068404
Acreage:	240 acres
Percentage of Participation:	66.67
Acreage Description:	SW/4 and W/2 SE/4 of Section 30, T. 23 S., R. 34 E.
Operating Rights:	Held on all above described acreage by Continental Oil Company
Overriding Royalty Interest:	As of effective date of Unit Agreement, Ora R. Hall, Jr. and wife, Edna Ione Hall, held an undivided five per cent overriding royalty interest in the above described acreage. Subsequent transfers, if any, will be determined by attorneys for Unit Operator, although such transfers are subject to the Unit Agreement.
Lessee:	State of New Mexico
Serial Number	E-5896
Acreage:	120 acres
Percentage of Participation:	33.33
Acreage Description:	N/2 NW/4, NW/4 of NE/4 of Section 31, T. 23 S., R. 34 E.
Operating Rights:	Held on all above described acreage by Continental Oil Company
Overriding Royalty Interest:	None

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

December 17, 1954

Continental Oil Company
P. O. Box 431
Midland, Texas

Attention: Mr. R. L. Adams

Re: Bell Lake Unit Area
Lea County, New Mexico

Gentlemen:

This is to advise that the Plan of Development dated December 8, 1954, for the Bell Lake Unit Area for the calendar year 1955 has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the Oil and Gas Supervisor, United States Geological Survey, and by the Commissioner of Public Lands of the State of New Mexico.

Yours very truly,

W. B. Macey
Secretary - Director

WBM:jh

cc: U. S. Geological Survey
Roswell, New Mexico

State Land Commissioner
Santa Fe, New Mexico

C
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THE UNITED STATES DEPARTMENT OF THE INTERIOR
THE STATE OF NEW MEXICO

PLAN OF DEVELOPMENT
FOR THE CALENDAR YEAR 1955
BELL LAKE UNIT AREA
LEA COUNTY, NEW MEXICO

TO THE OIL AND GAS SUPERVISOR
UNITED STATES GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

COMMISSIONER OF PUBLIC LANDS
STATE OF NEW MEXICO
SANTA FE, NEW MEXICO

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
SANTA FE, NEW MEXICO

Pursuant to the provisions of Section 10 of the Unit Agreement approved by the Acting Director of the United States Geological Survey on September 30, 1953, the Commissioner of Public Lands of the State of New Mexico on September 9, 1953, and the State of New Mexico Oil Conservation Commission on August 28, 1953, affecting lands in Bell Lake Unit Area, Lea County, New Mexico, Continental Oil Company as Operator of said unit, hereby submits for your approval a Plan of Development for the calendar year 1955.

1. Exploratory

An exploratory test, Bell Lake Unit No. 1-A is now being drilled to a projected depth of approximately 15,000 feet to test the Devonian formation at a location 2970 feet from the East line and 330 feet from the South line of Section 31, Township 23 South, Range 34 East, Lea County, New Mexico.

2. Development

The unit area contains at present one gas distillate well, the Bell Lake Unit No. 2 located 3300 feet from the East line and 660 feet from the South line of Section 30, Township 23 South, Range 34 East, Lea County, New Mexico, and one permanently abandoned well, the Bell Lake Unit No. 1 located 3300 feet from East line and 660 feet from South line of Section 31, Township 23 South, Range 34 East, Lea County, New Mexico.

3. Further Development

Upon completion of the Devonian test well, Bell Lake Unit No. 1-A and with further evaluation of the productive capabilities of the Bell Lake Unit No. 2, the Unit Operator will then be able to determine further development plans for the unit area.

4. Offset Obligations

The Unit Operator will take appropriate and adequate measures to prevent drainage of oil or gas from lands included in the unit area.

5. Effective Date

This Plan of Development shall be effective January 1, 1955, subject to approval by the Oil and Gas Supervisor, the Commissioner of Public Lands, and the Oil Conservation Commission.

6. Modifications

It is understood that portions of the Plan of Development herein outlined are dependent upon certain information to be obtained prior and subsequent to drilling, and other contingencies, such as projected formation depths, exact locations, and the availability of well casing; and for these reasons, this Plan of Development may be modified slightly from time to time, with the approval of the Oil and Gas Supervisor, the Commissioner of Public Lands, and the Oil Conservation Commission, to meet changing conditions.

CONTINENTAL OIL COMPANY, OPERATOR
BELL LAKE UNIT

By: _____

R. L. Adams
R. L. Adams
Assistant Division Supt.
of Production
West Texas-New Mexico Division

Dated:

December 8, 1954.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

file

December 16, 1954

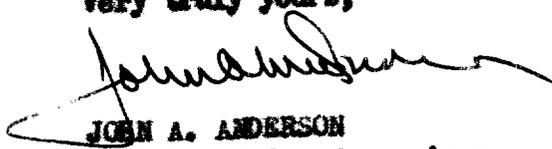
Continental Oil Company
P. O. Box 431
Midland, Texas

Gentlemen:

The plan of development received December 13, 1954, for the Bell Lake unit agreement, New Mexico, No. 14-08-001-1066, for the calendar year 1955, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of said plan is being returned herewith.

Very truly yours,


JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Cons.Div., Wash., D.C. (w/1 copy of plan of development)
Comm. Public Lands, Santa Fe (Ltr. only)
N.M.O.C.C., Santa Fe (Ltr. only) ✓

copy

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case 563

December 14, 1954

Mr. R. L. Adams
Production Department
Continental Oil Company
MIDLAND, TEXAS

RE: Request for temporary exemption
from Rule 404 on Bell Lake Unit No. 2,
located 3300' FBL and 660' FSL of Sec-
tion 30, Twp. 23 S, Rge. 34 E, NMPM,
Lea County, New Mexico

Dear Sir:

Reference is made to your letter of December 8, 1954, pertaining to the above-captioned request.

It is not necessary for you to obtain permission from this office to use the gas produced from your Bell Lake Unit No. 2 in drilling operations on your Well No. 1-A. However, you are hereby granted exception to the provisions of Rule 404 pertaining to the flaring or venting of gas produced from your No. 2 Well. It is my understanding that occasionally it is necessary for you to flare a small volume of gas in order to keep the well unloaded. You may obtain a distillate allowable by applying to Mr. Porter for the necessary amount of distillate to be produced monthly.

If there is anything further in this matter, please do not hesitate to contact us.

Very truly yours,

W. B. Macey
Secretary - Director

WBM:nr

cc: Mr. A. L. Porter, jr.
Oil Conservation Commission
Hobbs, N. M.



CONTINENTAL OIL COMPANY

P. O. Box 431
Midland, Texas
December 8, 1954

Lice

Mr. John A. Anderson
Oil and Gas Supervisor
Southwestern Region
United States Geological Survey
Roswell, New Mexico

*OK
12/10/54*

Dear Mr. Anderson:

We are transmitting herewith for your consideration four copies of the Plan of Development for the Calendar Year 1955 covering the Bell Lake Unit Area in Lea County, New Mexico. If this Plan of Development meets with your approval, please return one copy to this office at your earliest convenience.

Yours very truly,

R. L. ADAMS
Assistant Division Superintendent
of Production
West Texas-New Mexico Division

RLA-BW
Encs

BY REGISTERED MAIL

cc: Commissioner of Public Lands, Santa Fe, N.M.
Oil Conservation Commission, Santa Fe, N.M.



CONTINENTAL OIL COMPANY

Midland, Texas
December 8, 1954

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Re: Request for temporary exemption
from Rule 404 on Bell Lake Unit
No. 2, located 3300 feet from
East and 660 feet from South
lines of Section 30, Township
23-S, Range 34-E, Lea County,
New Mexico

Gentlemen:

Continental Oil Company, as operator of the Bell Lake Unit located in the southeastern part of Lea County, New Mexico, is presently engaged in further exploration of this unit and at the present are drilling below 13,500 feet on the Bell Lake Unit No. 1-A, a twin well to the Bell Lake Unit No. 1, which caught on fire and burned during the early part of the year.

We have recently completed the Bell Lake Unit No. 2, which is located approximately one mile due north of the Bell Lake Unit No. 1-A. The well was potentialed for 13,000 MCF of gas with 140 barrels of distillate and 70 barrels of water produced in 24 hours on a 11/64-inch choke. Our Bell Lake Unit No. 1-A is projected to 15,000 feet and it is anticipated that it will require between 75 and 100 days of additional time to reach this depth from our present total depth. This well is located in an extremely isolated area and the only source of fuel available was butane until the successful completion of the Bell Lake Unit No. 2 was made. Expenditures for butane fuel to operate the power rig on the Bell Lake Unit No. 1-A has been averaging between \$80 and \$100 a day. With the completion of Bell Lake Unit No. 2, we now have an adequate close source of sweet gas available and we, therefore, respectfully request temporary exemption from Rule 404 in order that we may utilize dry gas produced from the Bell Lake Unit No. 2 for the purpose of furnishing fuel for the drilling rig on Bell Lake Unit No. 1-A.

New Mexico Oil Conservation Commission
Page 2

It is anticipated that an allowable of 300 MCF of gas per day and 10 barrels of distillate will be required to maintain sufficient gas volume for operation of the drilling rig in the area. Due to change in volume demands and the necessity of opening the well up slightly occasionally to unload the well, it will be necessary to flare a small portion of gas. The amount of gas that will be flared, however, is expected to be negligible.

We have an outlet for the distillate production and would appreciate your early administrative approval to proceed with the use of the dry gas, at a daily allowable rate of 300 MCF of gas and 10 barrels of distillate from the Bell Lake Unit No. 2 well to furnish fuel for the Bell Lake Unit No. 1-A drilling rig.

Yours very truly,



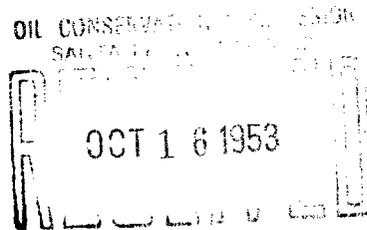
R. L. ADAMS
Assistant Division Superintendent
West Texas-New Mexico Division
Production Department

RLA-LP



CONTINENTAL OIL COMPANY

Roswell, New Mexico
October 13, 1953



Mr. R. R. Spurrier
Oil Conservation Commission
Mabry Hall
Santa Fe, New Mexico

Dear Mr. Spurrier:

Enclosed for your files is an executed copy of the
UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE BELL
LAKE UNIT, LEA COUNTY, NEW MEXICO.

This Agreement was executed by Mr. Thomas G. Nolan,
Acting Director of the United States Geological Survey, effec-
tive September 30, 1953.

We are presently erecting the derrick for the
drilling of the initial test on this unit at a location in the
center of the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 31, T-23S, R-34E.

Yours very truly,

A handwritten signature in cursive script that reads "M. E. Thrash".

M. E. Thrash
Land Superintendent
Roswell Division

MET:JB

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a full rate telegram	
FULL RATE TELEGRAM	
DAY LETTER	
NIGHT LETTER	

\$
S
E

WESTERN UNION

1206 10-51

W. P. MARSHALL, PRESIDENT

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise the message will be sent at the full rate	
FULL RATE	
LETTER TELEGRAM	
SHIP RADIOGRAM	

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED
			Oil Conservation Commission	

Send the following message, subject to the terms on back hereof, which are hereby agreed to

Santa Fe, New Mexico
September 4, 1953

Clarence Hinkle

Mr. Clarence Hinkle
Attorney at Law
J. P. White Building
Roswell, New Mexico

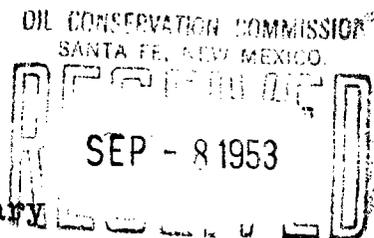
BELL LAKE UNIT ORDER NUMBER 355 SIGNED AUGUST 28TH.

R. R. SPURRIER

J. M. HERVEY
HIRAM M. DOW
CLARENCE E. HINKLE
W. E. BONDURANT, JR.
GEORGE H. HUNKER, JR.

WILLIAM C. SCHAUER
HOWARD C. BRATTON
S. B. CHRISTY IV

LAW OFFICES
HERVEY, DOW & HINKLE
ROSWELL, NEW MEXICO
September 3, 1953



Mr. R. R. Spurrier, Executive Secretary
New Mexico Oil & Gas Association
Santa Fe, New Mexico

Re: Bell Lake Unit Agreement

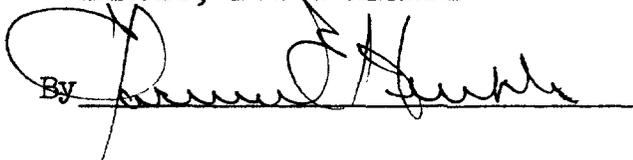
Dear Dick:

We have the Bell Lake Unit Agreement all signed up and ready to file for final approval of the Director of the U.S.G.S. and are extremely anxious to obtain the order of approval of the unit by the Conservation Commission.

If this has not already been signed, I would appreciate anything you can do to expedite the matter so it can be promptly filed.

Yours sincerely,

HERVEY, DOW & HINKLE

By 

CEH:mp