

Case No.

508

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Application, Transcript,  
Small Exhibits, Etc.

NO  
CASE 508: Amerada Petroleum Corporation  
Drill Completion Well No. 4  
SE NW 35-198-36E Dea County

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 508  
ORDER No. R-297

THE APPLICATION OF AMERADA  
PETROLEUM CORPORATION FOR AN  
ORDER GRANTING PERMISSION TO  
DUALY COMPLETE AND PRODUCE  
ITS WEIR NO. 4 WELL LOCATED IN  
THE SE/4 NW/4 OF SECTION 35,  
TOWNSHIP 19 SOUTH, RANGE 36 EAST,  
NMPM, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 17, 1953, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this 31<sup>st</sup> day of *MARCH*, 1953, the Commission, a quorum being present, having considered the records and the testimony adduced, and being fully advised in the premises,

FINDS:

(1) That due notice having been given as required by law, the Commission has jurisdiction of the case and the persons and subject matter thereof.

(2) That applicant's Weir No. 4 Well, SE/4 NW/4 Section 35, Township 19 South, Range 36 East, NMPM, Lea County, New Mexico, was completed in April 1936 as an oil well producing from the Grayburg formation of the Eunice-Monument Pool in the open-hole interval 3815-3945, having drilled through the Seven Rivers-Queen formation of the Eumont Gas Pool at an approximate depth of 2830-3630.

(3) That although recent experiments tend to show that mechanical packers and other devices are ordinarily available for successful dual/multiple completions of oil - gas wells, the Commission is unconvinced of the soundness as a waste-prevention practice, of such dual/multiple completions as a general practice in New Mexico without specific controls over each such project.

IT IS THEREFORE ORDERED:

That the applicant herein, Amerada Petroleum Corporation, be, and it hereby is authorized to dualy complete and produce its Weir Well No. 4, SE/4 NW/4 Section 35, Township 19 South, Range 36 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Seven Rivers-Queen formation of the Eumont Gas Pool may be produced through the annular space between the casing and the tubing, and oil from the Grayburg formation of the Eunice-Monument Pool through the tubing by proper perforations and the installation of a proper packer;

PROVIDED, HOWEVER, That upon the actual dual completion of such subject well applicant shall submit to the District Office of the Commission in which the subject well is located Form C-103, Form C-104, Form C-110 and Form C-122 outlining the information required on these forms by existing Rules and Regulations.

PROVIDED, HOWEVER, That subject well shall be completed, and thereafter produced, in such a manner that there will be no commingling within the well bore, either within or outside the casing of gas, oil and gas, or oil produced from either or both of the separate strata, and,

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the operator applicant shall make any and all tests, but not excluding other tests and/or determinations at any convenient time and in such manner as deemed necessary by the Commission, the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within ten (10) days after the completion of such test, and,

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas/oil ratio and reservoir pressure determination of each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing, the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

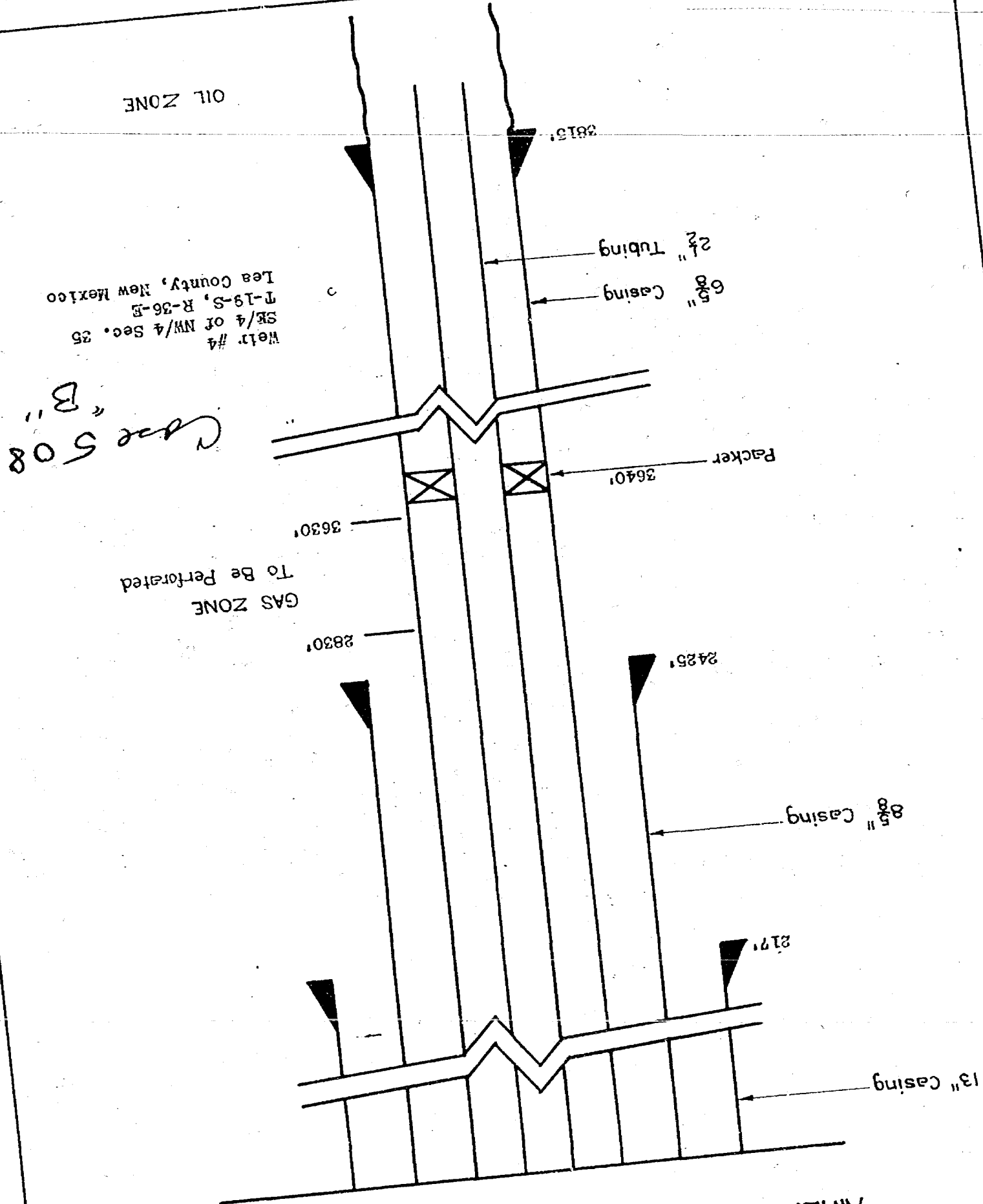
  
EDWIN L. MECHEM, Chairman

  
E. S. WALKER, Member

  
R. R. SPURRER, Secretary

S E A L

# SCHEMATIC DIAGRAM OF PROPOSED DUAL COMPLETION AMERADA PETROLEUM CORPORATION



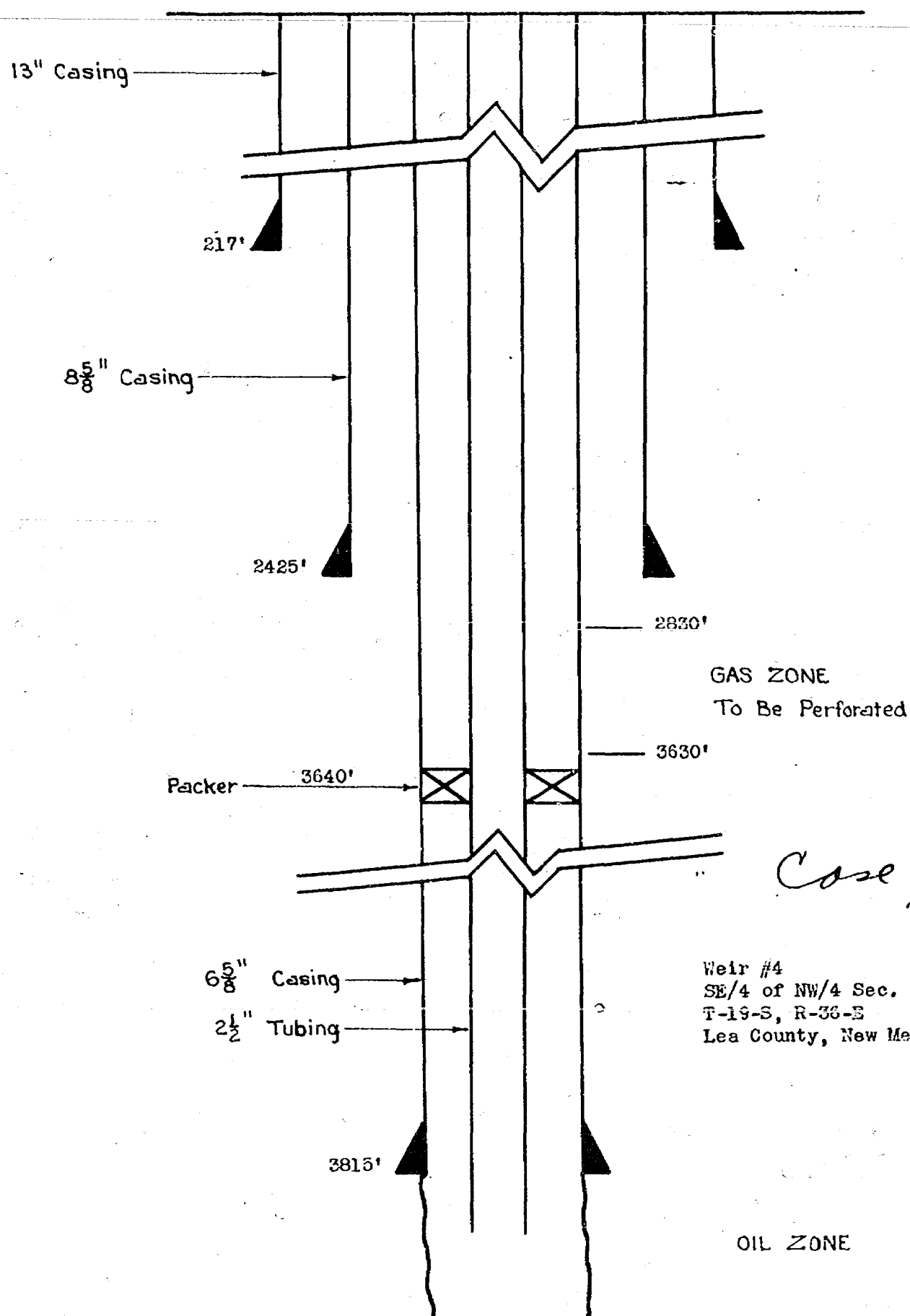
Well #4  
SE 1/4 of NW 1/4 Sec. 25  
T-19-S, R-36-E  
Lea County, New Mexico

Case 508  
"B"

OIL ZONE

GAS ZONE  
To Be Perforated

# SCHEMATIC DIAGRAM OF PROPOSED DUAL COMPLETION AMERADA PETROLEUM CORPORATION



Weir #4  
SE/4 of NW/4 Sec. 35  
T-19-S, R-36-E  
Lea County, New Mexico

AMERADA PETROLEUM CORPORATION  
P. O. BOX 312  
MIDLAND, TEXAS

*Case 508*

February 13, 1953

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Re: Application to Dually Complete  
Amerada Weir No. 1, Monument Field  
Lea County, New Mexico

Gentlemen:

By this letter of application the Amerada Petroleum Corporation wishes to state the following:

(a) That Amerada Petroleum Corporation Weir No. 1 located in SE/4 of NW/4, Section 35, Twp. 19-S, Rge. 36-E, Lea County, was completed April 20, 1936 at a total depth of 3945 feet. The attached Exhibit A shows the location of this and other wells on the Amerada Weir Lease together with the location of all offset wells.

(b) That the subject well has 6 5/8 inch casing set at 3815 feet and cemented with 100 sacks of cement. The well is an oil well producing from the interval from 3815 to 3945 feet in the Grayburg formation.

(c) That the applicant proposes to dually complete the well to produce oil from the Grayburg and gas from the Seven Rivers - Queen formation in the following manner:

- Exhibit A  
See page 1*
- (1) Perforate the 6 5/8 inch casing within the approximate interval of 2830 to 3630 feet opposite the Seven Rivers - Queen formation.
  - (2) Set a production type packer below these perforations at approximately 3640 feet to separate the two pay zones.
  - (3) Produce the Grayburg oil through the tubing and the Seven Rivers - Queen gas through the tubing - casing annulus.

(d) That the granting of this application for permission to produce the well as a dual completion with gas from the Seven Rivers - Queen formation and oil from the Grayburg formation is in the interest of conservation and the protection of correlative rights.

(e) That the applicant will comply with all rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pay zones.

(f) That the manner and method of the proposed dual completion is mechanically feasible and practical.

Therefore, Amerada Petroleum Corporation requests that the Oil Conservation Commission set a certain day upon which this application may be heard and after said hearing to grant permission in order that the applicant may dually complete the subject well as proposed in this application.

Respectfully Submitted,

AMERADA PETROLEUM CORPORATION

By: *J.C. Blackwood*  
J.C. Blackwood

Cities Service ● 1	Continental ● 1	Chfo ● 1	Amerada ● 7	Gulf ● 1
Amos Persons 27	36 State A-26	McCrail	Weir	Bates
Gulf 34	35 Amerada		Sun	Gulf
● 2	● 8	● 6	● 6	
● 1	● 5	⊙ 4	● 5	
J.W. Smith		American Rep.		
Amerada	● 3	● 2	● 4	
Gaither				
Shell	● 1	● 1	● 2	
Foster 34	35 Weir	Maveety		
Continental 3	2 Amerada	Amerada	Superior	
● 1	● 2	● 1	● 2	
	Weir	State I		
	Anderson-Prit.	Amerada		
● 2	● 1	● 1		
Reed		State M	State A	

AMERADA PETROLEUM CORPORATION  
 Weir Lease  
 NW/4 & W/2 of SW/4 Sec 35, &  
 NW/4 of NW/4 Sec 2, & SW/4 of SE/4  
 Sec 26 - T19S - R36E  
 Lea County, New Mexico  
 Feb. 13, 1953