

CERTIFICATION--DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior by the act of August 8, 1946 (Public Law 696, 79th Cong., 2d Sess.), which amended the act of February 25, 1920, as amended (41 Stat. 437, 30 U.S.C. secs. 181, et seq.), I hereby take the following action this 10<sup>th</sup> day of October, 1946

A. Certify and determine that the unit plan of development and operation in the attached agreement for the development and operation of the ..... Somache ..... Unit Area, Chaves County, New Mexico, is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources therein.

B. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

  
Assistant Secretary of the Interior.

LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

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

WILLIAM C. SCHAUER

November 2, 1950

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

Dear Mr. Spurrier:

We enclose for your information copy of letter of the Director of the United States Geological Survey granting an extension of the time within which to commence further drilling operations in connection with the Comanche Unit Area, Chaves County, New Mexico, I-Sec. No. 452, the extension being until April 15, 1951. A similar extension has been granted by the Commissioner of Public Lands.

Yours very truly,

HERVEY, DOW & HINKLE

By 

CEH:psl  
Enclosure

# C A R B O N

LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

J. M. HERVEY  
HIRAM M. DOW  
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GEORGE H. HUNKER, JR.

WILLIAM C. SCHAUER

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Washington 25, D. C.

OCT 27 1950

Buffalo Oil Company  
808 Gulf States Building  
Dallas, Texas

Gentlemen:

On October 19, 1950, Acting Director of the United States Geological Survey, Thomas B. Nolan, approved the application filed by your company as unit operator requesting extension of time within which to commence drilling the fourth test well for the Comanche unit area, Chaves County, New Mexico, I-Sec. No. 452, approved October 10, 1946. The approved extension is for a period of time expiring April 15, 1951.

Enclosed are two approved copies of the application for your record. It is assumed that you will furnish the State of New Mexico, or any other interested principal, with whatever evidence of this approval deemed appropriate.

Very truly yours,

/s/ H. J. Duncan

H. J. Duncan  
For the Director

Enclosures

C O P Y

# **BUFFALO OIL COMPANY**

A MARYLAND CORPORATION  
GULF STATES BUILDING

DALLAS, TEXAS

July 26, 1949

Amendment and Supplement  
to Comanche Unit Agreement

Case 73

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



Gentlemen:

We enclose, for your records, complete copy, in two counterparts of "Amendment and Supplement to Unit Agreement for the Development and Operation of the Comanche Area, Chaves County, New Mexico, I-Sec. 452"

The amendment has been approved by Julian D. Sears, Acting Director of the U.S.G.S., and by Guy Shepard, Commissioner of Public Lands, State of New Mexico.

Very truly yours,

BUFFALO OIL COMPANY

  
F. W. Simms

FWS/s

cc-Mr. Clarence E. Hinkle  
Mr. Wilton E. Scott

C A R B O N

LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

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

GEORGE H. HUNKER, JR.

May 13, 1949



Mr. Guy Shepard  
Commissioner of Public Lands  
State Land Office  
Santa Fe, New Mexico

Re: Comanche Unit Area, Chaves  
County, New Mexico

Dear Mr. Shepard:

We enclose herewith for your information and files approved copies of the designation of the Buffalo Oil Company as unit operator under the Comanche unit agreement, Chaves County, and application for extension of time extending the time in which to commence further drilling operations until September 21, 1949.

Yours very truly,

HERVEY, DOW & HINKLE

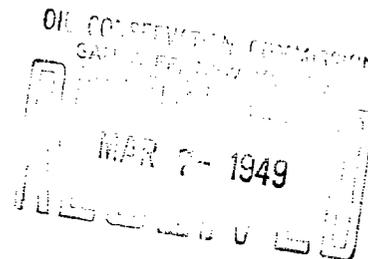
By

A handwritten signature in cursive script, appearing to read "Clarence E. Hinkle". The signature is written over a horizontal line.

CEH:rh  
Enc.

cc: F. M. Jacobsen, Buffalo Oil Co., Dallas, Texas.  
T. J. Arnold, American Republics Corp., Houston, Tex.  
W. E. Scott, Buffalo Oil Co., Artesia, N. M.  
Dick Spurrier, N. M. Oil Conservation Comm., Santa Fe, N.M.

STATE LAND OFFICE  
Santa Fe, New Mexico



March 2, 1949

Horvay, Dow & Hinkle  
Attorneys at Law  
Roswell, New Mexico

Attention of Mr. Clarence M. Hinkle

In Re: Comanche Unit Area  
Chaves County  
I-205, NO. 452

Gentlemen:

After having examined the application of Buffalo Oil Company, successor to the original unit operator, for an extension of time within which to commence further drilling operations under the provisions of the Comanche Unit in Chaves County, I conclude that such extension will be in the best interests of the State of New Mexico.

I therefore approve the same effective for six months from and after March 25, 1949. This approval of extension is conditioned, however, upon a like approval by the proper officials of the United States Department of Interior.

Very truly yours,

*Greg Shepard*  
GREG SHEPARD  
Commissioner of Public Lands

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OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

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October 17, 1946

Mr. T. F. Rico  
Richfield Oil Corporation  
Richfield Building  
Los Angeles, California

Re: Case 68 - Lake McMillan Unit Agreement, Eddy County  
Re: Case 73 - Comanche Unit Agreement, Chaves County

Dear Mr. Rico:

This is to acknowledge the receipt of your letter of October 14 and the accompanying enclosures, the above two captioned executed and approved unit agreements. Each was today filed in its respective case file.

For the Commission I will state that a well commenced on unitized lands with respect to each unit agreement prior to November 1, 1946, will be treated to be a unit well under the respective unit agreement.

With kindest personal regards.

Very truly yours,

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

June 15, 1946

Mr. Gordon A. Goodwin, Attorney  
Richfield Oil Corporation  
Richfield Building  
Los Angeles, California

Dear Gordon:

Re: Case No. 73, Order No. 648.

In reply to your letter of June 11 regarding the typographical error, the description employed in your petition was the description used in the order, which contains the typographical error mentioned. I have talked to Mr. Spurrier about the matter, and since the order has not been included in the book, the error is being corrected so as to conform with the description in the unit agreement, which is obviously the description intended.

Very truly yours,

Chief Clerk and Legal Adviser

CHL:mem

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# R I C H F I E L D   O I L   C O R P O R A T I O N

R I C H F I E L D   B U I L D I N G   •   L O S   A N G E L E S   1 3   •   C A L I F O R N I A

June 11, 1946

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Attention:   Mr. Carl B. Livingston  
                  Chief Clerk and Legal Adviser

Dear Carl:   In re:   Case No. 73, Order No. 648

This will acknowledge receipt of copy of the above mentioned order approving the form of unit agreement for the development and operation of the Comanche Area.

In checking the description of the unit area as set forth in the order I find that there is a typographical error in the second line on the second page of the order in describing the property in section 2, T. 11 S., R. 26 E. The order reads: "Sec. 2, Lots 1, 2, 3, 4, S-1/2;" The description in the unit agreement for this section 2 reads: "Sec. 2, Lots 5, 6, 7, 8, S-1/2;". Obviously in typing the stenographer has duplicated the description for section 1 which appears in the line above the description for section 2. Will you kindly have the correction made in the original order and I will accordingly correct my copy.

Let me take this opportunity to thank you for your very kind consideration in advising me as to the procedure before the Commission. The fact that the Commission was in such a hurry that it did not take time to hear our testimony does not detract from the value of your suggestions because I will undoubtedly be back in Santa Fe again on another matter of this kind.

Very truly yours,

*Gordon A. Goodwin*  
Gordon A. Goodwin,  
Attorney

GAG:MCM

STATE BUREAU OF MINES & MINERAL RESOURCES

Box 871

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

June 8, 1940

Mr. Gordon A. Goodwin  
Richfield Oil Corporation  
Richfield Building  
Los Angeles, California

Dear Gordon:

Re: Case No. 72, Order No. 648

Enclosed please find copy of the above-captioned order.

Very truly yours,

Chief Clerk and Legal Adviser

CBL:mem  
Encl

# R I C H F I E L D   O I L   C O R P O R A T I O N

R I C H F I E L D   B U I L D I N G   •   L O S   A N G E L E S   1 3   •   C A L I F O R N I A

April 25, 1946

Mr. Carl B. Livingston  
Chief Clerk and  
    Legal Adviser  
Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Livingston:

Re: Case 73, in the matter of the applica-  
tion of the Richfield Oil Corporation  
for an order of approval of the unit  
agreement for the development and opera-  
tion of the Comanche Area, Chaves County,  
New Mexico.

This will acknowledge receipt of your letter of  
April 22, 1946, re above mentioned matter.

I plan to attend the hearing set for May 8, 1946,  
at 10:00 a.m.

Very truly yours,

*Gordon A. Goodwin*  
Gordon A. Goodwin  
Attorney

GAG:McM



STATE BUREAU OF MINES & MINERAL RESOURCES

Box 871

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

April 22, 1946

Mr. Gordon A. Goodwin, Attorney  
Richfield Oil Corporation  
Richfield Building  
Los Angeles 13, California

Dear Mr. Goodwin:

Re: Richfield's Comanche Unit Agreement.

Reference is made to your letter of April 18, suggesting slight changes in the proposed Unit Agreement referred to in the caption. I see no objection to these, except possibly there is a typographical error in the sentence you desire to substitute for the last sentence in the second paragraph of Section 10. Please refer to line 6, the last two words "paid to". Did you not mean to say "paid by"? The latter would seem to be the sense of the sentence, since the holder would not be endeavoring to recover money paid to him, but would, no doubt, wish to recover money paid by him.

I have not as yet had the opportunity to confer with Mr. George Graham, but I am mailing him a copy of this letter.

Very truly yours,

Chief Clerk and Legal Adviser

CBL:men

cc: George A. Graham

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# R I C H F I E L D   O I L   C O R P O R A T I O N

R I C H F I E L D   B U I L D I N G   •   L O S   A N G E L E S   1 3   •   C A L I F O R N I A

April 18, 1946

Mr. Carl B. Livingston  
Clerk and Legal Advisor  
New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Livingston:     In re: Proposed Unit Agreement  
for the Development and  
Operation of the Comanche  
Area, Chaves County, New  
Mexico

In drawing the private agreement between the Working Interest Owners we have found it necessary to make a slight change in the last sentence of the second paragraph of section 10 of the above mentioned unit agreement. Said sentence now reads as follows:

"The holder of the interests in such lands so excluded shall neither be obligated to repay any benefits allocated to such excluded lands theretofore received, nor shall such holder be entitled to recover any part of the costs allocated to such excluded lands and theretofore paid by him."

We desire to change this sentence to read as follows:

"The holder of the interests in such lands so excluded shall not be obligated to repay any benefits allocated to such lands theretofore received, nor shall such holder be entitled to recover any part of the costs allocated to such excluded lands and theretofore paid ~~to~~<sup>by</sup> him, except any excess of costs so paid over benefits so received."

As you will note, this change affects only the Working Interest Owners and in effect the sentence, as amended, provides that if the costs paid by the Working Interest Owner exceed the benefits received by him at the time his lands are excluded because they are regarded as reasonably proved not to be capable of producing unitized substances in paying quantities, then he may recover from the Unit Operator the excess of costs paid over benefits received.

Mr. Livingston  
4/18/46  
Page 2

The provision as originally written was contained in the Lake McWillan unit agreement wherein the private agreement was on a carried interest basis. The Comanche private agreement will be on a joint contribution basis and we feel that unless the amendment above suggested is made no Working Interest Owner will pay any costs of operations to the Unit Operator in excess of benefits he has received. I am sorry that this necessary change was not brought to your attention at the time I was in Santa Fe, but it was overlooked at the time.

Prior to the Secretary of the Interior approving the form of said unit agreement two additional changes were made therein by attorneys in the Solicitor's office at Washington of which I have not heretofore advised you. These two changes are as follows:

On page 20 of said unit agreement, in line 8 thereof, after the word "substances" the Solicitor inserted the following:

"allocated to any federal lease during any year".

On page 24 of said unit agreement, in line 6 thereof, after the words "owners of" there were inserted the words "not less than".

Both of these changes affect only the relationship between federal lessees and the Secretary of the Interior and do not in any way affect the State of New Mexico or its interests in the unit agreement, so there should be no objection on your part to the last two changes above mentioned.

I will appreciate your advising me by wire collect if these changes above mentioned in the Comanche unit agreement meet with your approval. If you approve, identical changes will also be made in the proposed Worman Lake unit agreement.

Kindest personal regards.

Very truly yours,

*Gordon A. Goodwin*  
Gordon A. Goodwin,  
Attorney

GAG:McM  
AIR MAIL

STATE BUREAU OF MINES & MINERAL RESOURCES

Box 871

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

April 23, 1946

Roswell Daily Record  
Roswell, New Mexico

Gentlemen:

Re: Case 73 - Notice for Publication

Please publish the enclosed notice once, immediately.  
Please proof read the notice carefully and send a copy  
of the paper carrying such notice.

UPON COMPLETION OF THE PUBLICATION, PLEASE SEND PUBLISHER'S  
AFFIDAVIT.

For payment please submit statement in duplicate accompanied  
by voucher executed in duplicate. The vouchers must be  
signed by a notary in the space provided on the back of the  
voucher. The necessary blanks are enclosed.

Very truly yours,

Chief Clerk and Legal Adviser

CBL:mem  
Encl

STATE BUREAU OF MINES & MINERAL RESOURCES

Box 871

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

April 26, 1946

The Santa Fe New Mexican  
Santa Fe  
New Mexico

Gentlemen:

Re: Notice for Publication  
Cases Nos. 72, 73, 74, and 75

Please publish the enclosed notice once, immediately.  
Please proof read the notice carefully and send a copy  
of the paper carrying such notice.

UPON COMPLETION OF THE PUBLICATION, PLEASE SEND PUBLISHER'S  
AFFIDAVIT.

For payment please submit statement in duplicate accompanied  
by voucher executed in duplicate. The vouchers must be signed  
by a notary in the space provided on the back of the voucher.  
The necessary blanks are enclosed.

Very truly yours,

Chief Clerk and Legal Adviser

CHL:amm  
Encs

STATE BUREAU OF MINES & MINERAL RESOURCES

Box 871

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

April 26, 1946

Honorable Glenn Staley  
Proration Office  
Hobbs, New Mexico

Dear Glenn:

Re: Notice of Publication  
Cases Nos. 72, 73, 74, and 75

Enclosed please find notice of the above-captioned hearings, which notice is self-explanatory.

Please indicate that you have received this notice.

With kindest personal regards.

Very truly yours,

Chief Clerk and Legal Adviser

CBL:mem  
Encl

STATE BUREAU OF MINES & MINERAL RESOURCES

Box 871

*Santa Fe, New Mexico*

JOHN M. KELLY  
DIRECTOR

April 22, 1946

Gordon A. Goodwin, Esq.  
Richfield Oil Corporation  
Richfield Building  
Los Angeles 13, California

Dear Gordon:

Re: Case 73, in the matter of the application  
of the Richfield Oil Corporation for an order  
of approval of the unit agreement for the de-  
velopment and operation of the Comanche Area,  
Chaves County, New Mexico.

The above-captioned case is set for hearing at Santa Fe,  
New Mexico May 8, 1946 at 10:00 A. M.

Please indicate that you have received this notice.

Very truly yours,

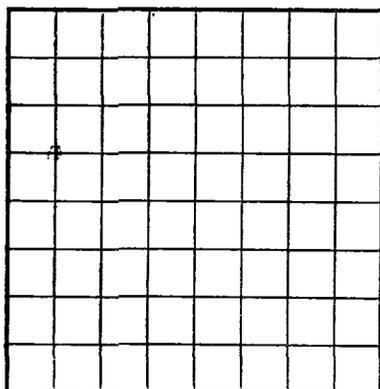
Chief Clerk and Legal Adviser

CBL:mem

cc: Tom Rico



U. S. LAND OFFICE Las Cruces  
SERIAL NUMBER 963855  
LEASE OR PERMIT TO PROSPECT E



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Buffalo Oil Company Address Box 517, Artesia, N. Mex.  
Lessor or Tract Cochise Unit Field Wildcat State New Mexico  
Well No. 3 Sec. 26 T. 11S R. 26E Meridian NMPM County Chaves  
Location 1280 ft. <sup>{XX}</sup><sub>{S.}</sub> of No Line and 660 ft. <sup>{E.}</sup><sub>{XX}</sub> of W. Line of Sec. 26 Elevation 3669  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed A. J. Blain  
Title Vice Pres.

Date Oct. 20, 1949

The summary on this page is for the condition of the well at above date.

Commenced drilling July 17, 1949 Finished drilling Sept. 21, 1949

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5938 to 5950 <sup>(Show of gas)</sup> No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from 5938 to 6118 <sup>Salt water</sup> No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
16" OD	65#	8 rd	H-40	104	Guide				Surface
10-3/4"	32.75 40.5	8 rd	H-40	799	Float				Intermediate
5-1/2" OD	17#	8 rd	J-55	8660	Float			See history	Producing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16" OD	118'	93	Plug		
10-3/4"	954'	440	"		
5 1/2" OD	6007'	100	"		

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 6175 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

Put to producing Dry hole, 19\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, °Bé. \_\_\_\_\_

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

EMPLOYEES

Bruce Blain, Driller Joe Sargeon, Driller  
Bill Speed, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	890		Anhydrite & shale
890	2015		Lime & anhydrite
2015	2162		Lime & sand
2162	3314		Lime, shale, and Anhydrite
3314	3842		Lime
3842	4024		Lime & Anhydrite
4024	4414		Lime
4414	4543		Red shale
4543	5938		Lime & shale
5938	6173		Dolomite and Lime
6173	6175		Granite

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
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HISTORY

After cementing 10-3/4" OD Casing at 954', drilling was resumed with a 9-7/8" hole to 5086' at which point hole was reduced to 8-3/4". At 5938' went in with 6-1/4" core bit and cored to 5943'. Recovered 3 1/2' of porous dolomite. Drilled with 6 1/2" bit to 5950' and then ran drill stem test #1 from 5935-50. Tool was open 18 minutes. Gas came to surface in one minute. Gauged 3 million cu.ft per day of sweet gas. Flowing pressure was 560#, 18 min. shut-in pressure 2250 psi. Recovered 240' mud and salt water cut with gas and slight trace of distillate. Following coring was performed with 6-1/8" diamond bits. Took core #2, 5950-60, recovered 10' of porous dolomite. Ran DST #2, 5935-60. Tool open 43 min. Gas to surface in 4 min. Gauged 180 MCF/D of sweet gas. Recovered 90' mud, 822' of drilling fluid or salt water cut heavily with distillate and gas, and 182' of clear salt water. Min. flowing pressure 200 psi, final was 410 psi. 15 min. shut-in pressure 2310 psi. Took core #3, 5960-68 bleeding salt water and distillate. Took Core #4, 5968-94. Recovered 26 1/2' dense dolomite with chert streaks and traces of good porosity. Bleeding distillate and salt water. Ran DST #3, 5971-94 tool open 1-3/4 hrs. Good blow throughout test. Recovered 372' mud and 3298' salt water. Maximum flowing pressure 1650 psi. 15 min. Shut-in pressure 2200 psi. Took Core #5, 5994-6003. Recovered 3' 4" hard fractured dolomite and chert. Took Core #6, 6003-12, recovered 9' dolomite. Resumed drilling with 6 1/2" bit to 6061'. Ran 6-1/8" diamond bit. Took Core #7, 6061-67, recovered 6' dolomite. Ran DST #4, 6012-67. Tool open 45 min. Fair blow. Recovered 90' drilling mud and 180' salt water. Maximum flowing pressure 190 psi. 10 min. shut-in pressure 1420 psi. Took Core #8, 6067-95 recovered 28' hard dolomite. Took Core #9, 6095-6119, recovered 24' hard dolomite with few scattered pores, bleeding salt water and distillate. Took Core #10, 6119-22. Recovered 1' 8" dense gray dolomite. Ran DST #5, 6081-6122, tool open 3 hrs., gas to surface in 29 min., strong blow. Recovered 217' mud and 186' salt water. Maximum flowing pressure 150 psi. 15 min. shut-in pressure 700' psi. Took Core #11, 6122-37, recovered 15' hard dolomite, bottom 6' showed fluorescence and bleeding oil from few tight fractures. Ran DST #6, 6120-37, tool open 1 hr. 40 min. Slight blow for 10 min. Recovered 15' mud, flowing pressure 0, 15 min. shut-in pressure 0. Took Core #12, 6137-53, recovered 16' dense dolomite with few scattered tight pores. Ran DST #7, 6136-53, tool open 3 hrs. slight blow, recovered 30' mud, flowing pressure 0, 15 min. shut-in pressure 0. Took Core #13, 6153-68, recovered 15' dolomite and sand. Took Core #14, 6168-75, recovered 7' sandy dolomite and 1 1/2' of granite on bottom.

Spotted 16 sacks Aquagel on bottom then ran Schlumberger. Reamed from 5938 to 6008 with 7-3/8" bit. Ran 5 1/2" casing at 6007' with 5 centralizers at following depths: 5869, 5899, 5924, 5964, and 5991. Cemented 5 1/2" casing with 100 sacks. Ran temperature survey and found top of cement behind 5 1/2" casing at 5670'. Cleaned out to 5973. Ran Gamma Ray-Neutron Survey. Perforated 5 1/2" casing from 5954-57 with 4 shots per foot. Set packer at 5937' to swab below. Swabbed dry and then recovered a small amount of salt water. Acidized perforations with 300 gallons mud acid of which 1/2 bbl. acid was squeezed through perforations. Acidizing pressure was 2300 psi. Swabbed hole dry and obtained no increase in fluid. Set Lane Wells bridge plug from 5947-51 and perforated 5 1/2" casing from 5938-41 with 8 shots / ft. Set packer at 5920. After swabbing off load fluid to 3000, gas started showing and steadily increased while swabbing. Swabbed hole nearly dry. Swabbed approximately 22 hrs. at rate of about 2 bbls. salt water per hour. Considerable gas showed at each pull of swab, but died between pulls. Ran retrievable retainer at 5936' and squeezed below with 50 sacks. 12 sacks were pumped through perforations. Initial squeeze pressure 3300 psi and final pressure was 4200 psi. Next perforated 5 1/2" casing from 5928-32 with 8 shots per ft. Found top of cement plug at 5937. Set packer at 5910'. Swabbed hole dry. No signs of oil, gas, or water. See Sundry Notice of abandonment for subsequent operations.

HISTORY OF OIL OR GAS WELL

16-48094-1 U.S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Las Cruces  
Lease No. 063855  
Unit E

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Artesia, New Mex. Oct. 19, 1949

Comanche Unit

Well No. 3 is located 1980 ft. from [N] line and 660 ft. from [W] line of sec. 26

SW 1/4 NW 1/4 Sec. 26      11S      26E      NMPM  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)  
Wildcat      Chaves      New Mexico  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the derrick floor above sea level is 3669 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

In accordance with verbal approval from Mr. P. T. McGrath, this well was abandoned and plugged as follows: Hole was filled with good, heavy mud, cement was spotted in 5 1/2" casing from 5700 to 5625'. The 5 1/2" casing was then shot off at 5615' and casing was pulled from hole. A 10' plug of cement was then placed inside of 10-3/4" casing at the surface. A 10' piece of 4" pipe was placed at the surface of hole and 4' was left sticking above ground. Plugging was completed on Oct. 15, 1949.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BUFFALO OIL COMPANY

Address Box 517

ARTESIA, NEW MEXICO

By [Signature]

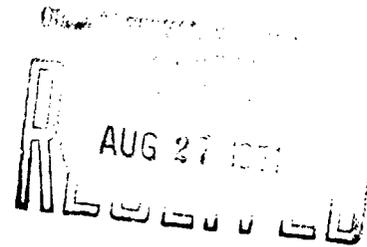
Title Vice Pres.

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

ROSS MADOLE  
WILLIAM C. SCHAUER

LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

August 23, 1951



R. R. Spurrier, Executive Secretary  
New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Spurrier:

We enclose herewith an approved copy of Certificate and Consent to Dissolution of the Unit Agreement for the Development and Operation of the Comanche Unit Area, Chaves County, New Mexico. You will note that this has been approved by the acting director of the U.S.G.S. and by the Commissioner of Public Lands, which finally dissolves the unit.

Yours very truly,

HERVEY, DOW & HINKLE

By 

CLM:vb

Enc.

cc: Buffalo Oil Company  
Gulf States Building  
Dallas, Texas

American Republics Corporation  
Houston, Texas

RECEIVED  
STATE LAND OFFICE

MAY 14 9 44 AM '51

SANTA FE, N. M.

UNITED STATES OF AMERICA  
DEPARTMENT OF THE INTERIOR  
U. S. GEOLOGICAL SURVEY

CERTIFICATE AND CONSENT TO DISSOLUTION OF UNIT AGREEMENT  
FOR THE DEVELOPMENT AND OPERATION OF THE COMANCHE UNIT  
AREA, CHAVES COUNTY, NEW MEXICO, I, Sec. No. 452

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, on July 1, 1946, a certain agreement was made and entered into for the development and operation of the Comanche Unit Area, designated as I. Sec. No. 452, embracing the following described land situated in Chaves County, New Mexico, to-wit:

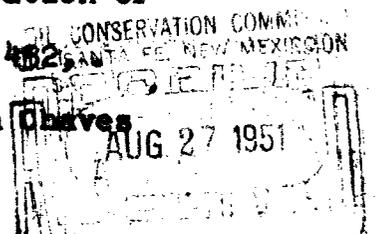
New Mexico Principal Meridian, New Mexico

T. 10 S., R. 25 E., sec. 36, S $\frac{1}{2}$ SE $\frac{1}{4}$ .

T. 11 S., R. 25 E., sec. 1, all;  
sec. 2, E $\frac{1}{2}$ SE $\frac{1}{4}$ ;  
sec. 11, E $\frac{1}{2}$ E $\frac{1}{2}$ ;  
sec. 12, all;  
sec. 13, all;  
sec. 14, E $\frac{1}{2}$ E $\frac{1}{2}$ ;  
sec. 23, E $\frac{1}{2}$ NE $\frac{1}{4}$ ;  
sec. 24, all;  
sec. 25, NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ .

T. 10 S., R. 26 E., sec. 31, lots 3, 4, E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ ;  
sec. 32, S $\frac{1}{2}$ ;  
sec. 33, S $\frac{1}{2}$ ;  
sec. 34, S $\frac{1}{2}$ S $\frac{1}{2}$ ;  
sec. 35, SW $\frac{1}{4}$ SW $\frac{1}{4}$ .

T. 11 S., R. 26 E., (fractional) sec. 1, lots 1, 2, 3, 4, S $\frac{1}{2}$ ;  
sec. 2, lots 5, 6, 7, 8, S $\frac{1}{2}$ ;  
sec. 3, lots 1, 2, 3, 4, S $\frac{1}{2}$ ;  
sec. 4, lots 1, 2, 3, 4, 5, SE $\frac{1}{4}$ ;  
sec. 9, lots 1, 2, 3, 4, E $\frac{1}{2}$ ;  
sec. 10, all;  
sec. 11, all;  
sec. 12, all;  
sec. 13, all;  
sec. 14, all;  
sec. 15, all;  
sec. 16, lots 1, 2, 3, 4, E $\frac{1}{2}$ ;  
sec. 21, lots 1, 2, 3, 4, E $\frac{1}{2}$ ;  
sec. 22, all;



T. 11 S., R. 26 E., (continued)

sec. 23, all;  
sec. 24, all;  
sec. 25, N $\frac{1}{2}$ , SW $\frac{1}{4}$ ;  
sec. 26, all;  
sec. 27, all;  
sec. 28, lots 1, 2, 3, 4, E $\frac{1}{2}$ ;  
sec. 33, lots 1, 2, NE $\frac{1}{4}$ ;  
sec. 34, N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ ;  
sec. 35, N $\frac{1}{2}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ .

T. 11 S., R. 27 E., sec. 6, lots 1, 2, 3, 4, 5, 6, E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ ;  
sec. 7, lots 1, 2, 3, 4, NE $\frac{1}{4}$ , E $\frac{1}{2}$ W $\frac{1}{2}$ ;  
sec. 18, lots 1, 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ ;  
sec. 19, lots 1, 2, 3, 4;

and

WHEREAS, said Unit Agreement was approved by the New Mexico Oil Conservation Commission on May 8, 1946, and by the Commissioner of Public Lands of the State of New Mexico on September 22, 1946, and by the Secretary of the Interior of the United States on October 10, 1946, and

WHEREAS, the Richfield Oil Corporation was originally designated as Unit Operator under the terms of said Unit Agreement and thereafter said Unit Operator resigned and the Buffalo Oil Company was designated as the new Unit Operator as provided by the terms of said Agreement, and

WHEREAS, said Unit Operators caused several test wells for oil and gas to be drilled upon portions of the lands embraced within the unit area, all of which failed to discover oil or gas in paying quantities, and that the time within which to commence further drilling operations under the terms of said Unit Agreement has been extended from time to time, the last extension being until April 15, 1951, and

WHEREAS, said Unit Operators have complied with all of the terms and conditions of said Unit Agreement and with all the regulations of the Secretary of the Interior with respect to the drilling and abandonment of the wells drilled within said unit area, and

WHEREAS, said Unit Agreement provides that the same may be terminated at any time by consent of the owners of not less than 75% on an acreage basis of working interests signatory thereto, with the approval of the Commissioner of Public Lands of the State of New Mexico and the Secretary of the Interior of the United States, and

WHEREAS, the undersigned parties being the owners of more than 75% of the working interests on an acreage basis of the oil and gas leases committed to said Unit Agreement are desirous of terminating the same as provided by the terms thereof.

NOW, THEREFORE, the undersigned parties hereto consent and agree to the dissolution and termination of the Unit Agreement for the development and operation of the Comanche Unit Area, Chaves County, New Mexico, I. Sec. No. 452 hereinabove referred to, subject to the approval of the Commissioner of Public Lands of the State of New Mexico and subject to the approval of the Secretary of the Interior of the United States.

IN WITNESS WHEREOF, this instrument is executed on this 3rd day of April, 1951.

ATTEST:

J. H. Merritt  
Secretary

ATTEST:

Assy

John E. Morgan  
Secretary

ATTEST:

John H. Roberts  
Secretary

BUFFALO OIL COMPANY

By Wm. Lawrence Vice-President  
Unit Operator

AMERICAN REPUBLICS CORPORATION

By R. K. Lygon  
President

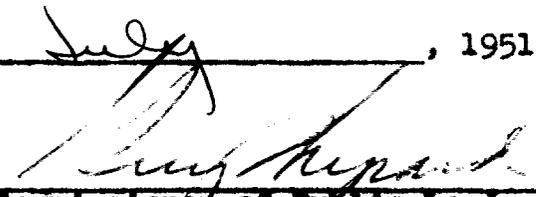
DEKALB AGRICULTURAL ASSOCIATION, INC.

By G. S. Hyde  
President

Date Approved AUG 15 1951

Julian D. Sears  
Acting Director, U. S. Geological Survey

The above and foregoing Certificate and Consent to  
Dissolution of Unit Agreement for the Development and Operation  
of the Comanche Unit Area, Chaves County, New Mexico, is hereby  
approved this 19th day of July, 1951.

  
\_\_\_\_\_  
Commissioner of Public Lands of the  
State of New Mexico

~~The above and foregoing Certificate and Consent to  
Dissolution of Unit Agreement for the Development and Operation  
of the Comanche Unit Area, Chaves County, New Mexico, is hereby  
approved this \_\_\_\_\_ day of \_\_\_\_\_, 1951.~~

~~\_\_\_\_\_  
Special Agent in Charge  
of the United States~~

~~Director, U. S. Geological Survey~~

STATE OF TEXAS  
COUNTY OF DALLAS

} SS

On this 3rd day of April, 1951, before me personally appeared F. M. JACOBSON to me personally known who being by me duly sworn, did say that he is the Vice President of BUFFALO OIL COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said F. M. JACOBSON acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on this, the day and year last above written.

My Commission Expires:

June 1, 1951.

Doc Carr M. Lucas  
Notary Public

STATE OF TEXAS  
COUNTY OF HARRIS

} SS

On this 6th day of April, 1951, before me personally appeared W. J. JACOBSON to me personally known who being by me duly sworn did say that he is the VICE President of AMERICAN REPUBLICS CORPORATION and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said W. J. JACOBSON acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on this the day and year last above written.

My Commission Expires:

June 1, 1951

Myrtle M. Cruz  
Notary Public  
MYRTLE M. CRUZ  
Notary Public, in and for Harris County, Texas

STATE OF Illinois  
COUNTY OF DeKalb

} SS

On this 28th day of April, 1951, before me personally appeared G.S. Hyde to me personally known who being by me duly sworn did say that he is the President of DE KALB AGRICULTURAL ASSOCIATION, INC., and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said G.S. Hyde acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on this the day and year last above written.

My Commission Expires:

7-18-52

Dorothy J. Farrell  
Notary Public  
DOROTHY J. FARRELL  
Notary Public, in and for DeKalb County, Illinois