

WILDLIFE CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

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November 14, 1946

Santa Fe New Mexican  
Santa Fe, New Mexico

Astec Independent Review  
Astec, New Mexico

Gentlemen:

Re: Notice of Publication - Case No. 88 <sup>99</sup>

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 necessary blanks are  
enclosed.

Very truly yours,

Chief Clerk & Legal Adviser

CBL:MSH

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

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November 14, 1946

Honorable Clarence Hinkle  
Hervey, Dow & Hinkle  
Roswell, New Mexico

Re: Case 88 - Notice of Publication

Dear Clarence.

Enclosed is notice of publication in Case 88.

Very truly yours,

Chief Clerk & Legal Adviser

CBL:MSH

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OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

November 14, 1946

Mr. Glenn Staley  
Proration Office  
Hobbs, New Mexico

Re: Case 88 - Notice of Publication

Dear Glenn:

Enclosed is notice of publication in Case 88.

Very truly yours,

Chief Clerk & Legal Adviser

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**EXHIBIT "A"**

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Office of the Secretary  
Washington  
25 D.C.**

Oct. 21, 1946

Long, St. Lewis, and Nyce, Esqs.,  
National Press Building,  
Washington 4, D. C.

Gentlemen:

Your letter of August 21 submitted for consideration a text of a proposed unit agreement for the Angel Peak Area, San Juan County, New Mexico.

A copy of the proposed agreement as submitted is returned herewith on which certain revisions have been indicated. In the absence of any objection not now apparent in the record or hereafter presented, a duly executed agreement which is identical with the enclosed paper as modified, if submitted within a reasonable period of time, will receive final approval.

Very truly yours,

/s/ Warner W. Gardner

Assistant Secretary.

Enclosure 496.

**EXHIBIT "A"**

K. M. WILLSON  
UNION NATIONAL BANK BUILDING  
WICHITA 2, KANSAS

# a  
Case 88

May 31, 1946

Department of the Interior  
United States Geological Survey  
Roswell, New Mexico

ATTENTION: Mr. Foster Morrell

Gentlemen:

Herewith submitted for your consideration is a geological report and map of the Angel Peak Structure located south of Bloomfield in San Juan County, New Mexico.

The map and report were prepared at the instance of Byrd-Frost, Inc., of Dallas, Texas, for whom I have spent several months doing geological work in this vicinity.

In case you wish references, the following are suggested:

Mr. Mark Whelan  
Artesia, New Mexico

Mr. Henry Ley  
Fort Worth National Bank  
Fort Worth, Texas

Mr. William Black  
Care of Black Marshall Oil Company  
Great Bend, Kansas

Mr. Ralph Pryor  
Union National Bank  
Wichita, Kansas

The area is already producing shallow gas on the north and east slopes and much benefit would result from unitization before the deeper horizons soon to be tested, are opened up. It is apparent that positions low on the flanks will produce, probably even lower than indicated at present, and it is very reasonable to include the area outlined for unitization when the size of this fold is compared with other nearby structures.

Your careful consideration will be much appreciated. I am

Yours very truly,

K. M. WILLSON

*K.M. Willson*

K. M. WILLSON  
UNION NATIONAL BANK BUILDING  
WICHITA 2, KANSAS

REPORT ON ANGEL PEAK STRUCTURE  
SAN JUAN COUNTY, NEW MEXICO

LOCATION AND SETTING

In central eastern San Juan County, New Mexico, south of Bloomfield across the San Juan River, the Kutz Canyon or wash has eroded a large semi-circular basin six to twelve miles back from the river. Along the northeast slope of this wash, a gas field has been developing for many years. It is referred to as the Kutz Canyon Field. South of the present gas wells, five or six miles, is a prominent landmark known as Angel Peak which is visible in several directions for many miles. The highway from Farmington and Durango passes through Bloomfield and southward on the west side of the production to Albuquerque some 180 miles away. The La Plata and San Juan Mountains are fifty miles away to the north while the producing fields of Hogback and Rattlesnake are some thirty or forty miles west.

STRATIGRAPHY

Detailed and accurate stratigraphic reports have been prepared by the United States Geological Survey covering the area bordering this structure. Especially useful is professional paper number 134 by John B. Reeside, Jr. It would seem needless to report here more than a brief outline of the sedimentary column. There is, however, some additional data from drilled wells which is pertinent and will be given below.

Surface rocks are Tertiary clay shale, and sandstone of the Puerco and Torrejon formations with their characteristic red and white and gray shale bands. A normal succession below this would include the formations shown on the following sheet.

K. M. WILLSON  
UNION NATIONAL BANK BUILDING  
WICHITA 2, KANSAS

	<u>CHARACTER</u>	<u>THICKNESS (approx.)</u>
Ojo Alamo	Sandstone	0-200
McDermott	Shale and sandstone	200
Kirtland	Shale	450
Farmington	Sandstone	350 Gas and oil producer
Kirtland	Shale	250
Fruitland	Shale, sandstone, and coal	500
Pictured Cliffs	Sandstone	200 Principal present gas horizon, Kutz
Lewis	Drab shale	1500
Mesaverde	Sandstone (Cliff House)	
	Shale, sandstone, and coal (Menefee)	Oil and gas
	Sandstone (Point Lookout)	850 See deep wells
Mancos		1900
Dakota		200 Oil and gas
Morrison		

STRUCTURE

Producing gas wells which have been drilled in the Kutz Canyon area, together with a few adjacent dry holes, show a distinct anticlinal structure plunging northward along an axis which extends from Section 30, T. 27 N., R. 10 W., through Section 34, T. 29 N., R. 11 W. This folding has over 300 feet of structural relief and the highest points proved by drilling are at the south in Sections 20 and 28, T. 27 N., R. 10 W.

South of this subsurface anticlinal feature there are many surface exposures which exhibit a gentle anticlinal structure along a southward extension mentioned above to and beyond a point west of Angel Peak where it plunges southward. The surface dips shown on the map have been calculated into position of the Pictured Cliffs sandstone and contours represent the feature in conventional manner.

Summarizing these data it is apparent that a well closed anticline is present with its crest near the northwest corner of Section 4, T. 27 N., R. 10 W. The area affected by this fold is some sixteen miles or more long by about eight miles wide, and has a closure of 150 plus feet. The size, shape, and direction of axis is similar to other folds in this region.

K. M. WILLSON  
UNION NATIONAL BANK BUILDING  
WICHITA 2, KANSAS

DEVELOPMENT

At present there are eighteen producing gas wells and three wells recorded as dry holes. Pictured Cliffs sandstone is the principal producing horizon, although the Farmington sandstone is also a producing horizon and two of the deeper wells penetrated some of the Mesaverde section where electrical records indicate production of gas or oil, possibly both. Reports on the field made some fourteen years ago were published in the Gas Volume by A. A. P. G., and also in Bulletin 9 of the New Mexico Bureau of Mines. In 1942, a revision of the New Mexico Bureau of Mines report was published as Bulletin 18. All of these reports contain critical data on the north part of this fold.

*K. M. Willson*

WIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

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November 13, 1946

Honorable Clarence Hinkle  
Hervey, Dow & Hinkle  
Roswell, New Mexico

Re: Case 88. Byrd-Frost Inc. - Petition to  
prove Angel Peak Unit Agreement,  
San Juan County, New Mexico.

Dear Clarence:

Reference is made to your letter of November 8 enclosing  
triplicate petition and form of unit agreement in the  
above captioned matter.

Mr. Spurrier has indicated that he hopes for the  
Commission to hear your petition about December 6.  
Governor Dempsey at this time is out of the state and  
Mr. Spurrier has not as yet contacted Governor Miles.  
You will be advised definitely soon.

Very truly yours,

Chief Clerk & Legal Adviser

CBL:MSH

LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

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

November 8, 1946

GEORGE H. HUNKER, JR.

Mr. Carl Livingston  
New Mexico Oil Conservation Commission  
State Capitol  
Santa Fe, New Mexico

RE: Angel Peak Unit Agreement  
San Juan County, New Mexico

Dear Mr. Livingston:

We hand you herewith application of Byrd-Frost, Inc., for approval of the unit agreement for the development and operation of the Angel Peak Unit Area, together with three copies of the unit agreement.

We are extremely anxious to have a hearing held on this application at the earliest possible time.

Yours very truly

HERVEY, DOW & HINKLE

BY

*Clarence E. Hinkle*

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encl.

SOIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

October 26, 1946

Mr. Clarence E. Hinkle  
Hervey, Dow & Hinkle  
Roswell, New Mexico

Dear Mr. Hinkle:

This will acknowledge receipt of your letter of October 24 with reference to form of agreement for the Angel Peak Unit Area.

Dick is on vacation at the present time and will not be in the office for about a week. Your letter will receive his prompt attention on his return.

It is Dick's intention to set a hearing date soon as there is another matter to be heard. Of course at this time it is impossible to say when that date will be, but you will be advised.

Very truly yours,

Secretary to Mr. Spurrier

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LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

October 24, 1946

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

GEORGE H. HUNKER, JR.

Mr. Dick Spurrier, Secretary  
New Mexico Oil Conservation Commission  
State Capitol  
Santa Fe, New Mexico

Dear Dick:

We have just received notice of approval by the Secretary of the Interior of a form of agreement which we prepared for the Angel Peak Unit Area, situated in San Juan County, New Mexico, and in which Byrd-Frost, Inc., of Dallas, Texas, is to be designated as Operator.

The proposed unit area covers 29,810.98 acres, situated in Townships 27, 28, and 29 North, Ranges 10 and 11 West, San Juan County, and Byrd-Frost, Inc., is now engaged in drilling a well in approximately the center of Lot 3, Sec. 4, T. 27 N., R. 10 W., which is about the center of the proposed unit area.

We have prepared an application to the Conservation Commission for approval of the unit agreement and also an application to the Commissioner of Public Lands for approval of the agreement. These have been forwarded to Byrd-Frost, Inc., for execution and will be filed just as soon as they are returned.

The purpose of writing you at this time is that I thought perhaps you might have a meeting of the Conservation Commission some time between now and the first of November and, if so, we would like for you to arrange for a hearing of the Commission on this agreement at the very earliest time possible.

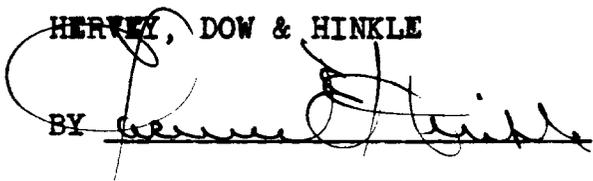
Due to the fact that the well now being drilled is below a depth of 4,000 feet, they are anxious to have the unit agreement approved as quickly as possible. I know that it has been your practice to wait until several of these matters accumulate before having a public hearing and I do not know whether you have any other matters on hand to

be heard. However, regardless of this, we are anxious that the matter be set down for hearing as early as possible. Therefore, anything you can do to assist us in arranging for the hearing will be greatly appreciated.

With kindest regards, we are

Sincerely yours

HERVEY, DOW & HINKLE

BY 

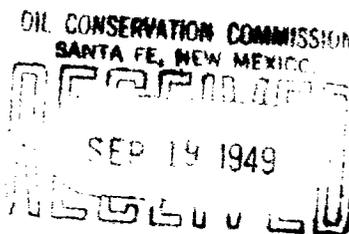
ceh:s

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

WILLIAM C. SCHAUER

LAW OFFICES  
HERVEY, DOW & HINKLE  
ROSWELL, NEW MEXICO

September 15, 1949



Mr. R. R. Spurrier  
Secretary and Director  
N. M. Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Re: ~~Case 88.~~ Byrd-Frost, Inc. - Petition to  
prove Angel Peak Unit Agreement,  
San Juan County, New Mexico

Dear Dick:

This will acknowledge receipt of your letter of September 12 relative to the status of the above unit agreement. This agreement was never approved by the Director of the United States Geological Survey due to the fact that a question was raised as to whether or not the Federal leases committed to the unit agreement would be exempt from the acreage limitations of the Federal Mineral Leasing Act because certain of the leases were only committed as to producing zones below the Pictured Cliff Formation.

So far as we are advised, no further effort will be made to have the unit agreement finally approved or put into operation, and I believe that it would be proper to note your records accordingly.

Yours very truly,

HERVEY, DOW & HINKLE

By 

CEH:rh

September 12, 1949

Honorable Clarence Hinkle  
Hervey, Fow & Hinkle  
Roswell, New Mexico

RE: Case 88. Byrd-Frost Inc. - Petition to  
prove Angel Peak Unit Agreement,  
San Juan County, New Mexico

Dear Mr. Hinkle:

While reviewing our files on the captioned unit agreement, we were unable to locate proof that the unit agreement was approved by the Secretary of the Interior and the Commissioner of Public Lands. We would appreciate your advice as to the present status of the matter.

Also, Order No. 684 which became effective December 6, 1946 stipulates in section 4 that the unit operator shall file with the Commission an executed original of the Angel Peak Unit Agreement Plan. This is not on file, and we would like to know whether or not Byrd-Frost Inc. plans to continue as the unit operator.

Thank you very much for your assistance.

Very truly yours,

brw

Secretary and Director