

Farmington, New Mexico

June 28, 1951

Paul Stock
P. O. Box 930
Tody, Wyoming

Re: New Mexico 03013

Dear Sir:

Receipt is acknowledged of your "Notice of Intention to Drill" dated June 28, 1951, covering your well No. 1 Mills on the subject lease, in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 23 N., R. 11 W., N.M.P.M., San Juan County, New Mexico, Wildcat area.

Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1942, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.
2. Furnish copies of all logs.
3. Submit "Monthly Report of Operations", Form 9-329 regularly from the date the well is spudded. (See section 5 of the attached sheet of general approval).

Very truly yours,

(Sgd.) P. T. McGrath.
District Engineer



OFFICE OF THE DISTRICT ENGINEER
SANTA FE, NEW MEXICO

NEW MEXICO
OIL CONSERVATION COMMISSION



P. O. BOX 871
SANTA FE, NEW MEXICO

GOVERNOR THOMAS J. MABRY
CHAIRMAN
LAND COMMISSIONER GUY SHEPARD
MEMBER
STATE GEOLOGIST R. R. SPURRIER
SECRETARY AND DIRECTOR

PLEASE READ BEFORE STARTING OPERATIONS

Attention is called to the following general and special requirements most likely to be overlooked by operators on Federal oil and gas leases. Suspension of field operations may be required by the District Engineer for failure to comply with the Operating Regulations, the conditions of drilling approval, and these requirements.

GENERAL

1. All drilling and producing wells shall be permanently marked in a conspicuous place with the name of operators, lease name, serial number of lease, well number, and location. Necessary precautions must be taken to preserve such signs.

2. Any desired change of drilling plan or condition of approval must have written approval of the District Engineer BEFORE the change is made.

3. Unless otherwise specified in the approval to drill, the production string of casing must be set at the top of the pay zone, the completion shall be made with a reasonable gas-oil ratio.

4. Before work is started, written approval must be obtained, unless other acceptable arrangements are made in advance with the District Engineer, and after work is completed results must be reported to the U.S. Geological Survey by submitting complete information in triplicate on form 9-331a, covering:

- a. Mudding or cementing, including proposed date and method of testing water shut-off.
- b. Drill-stem tests or perforating.
- c. Casing alterations, packer setting, or repairs of any kind.
- d. Shooting, acid treatment, deepening or plugging back.
- e. Gas-lift installations.
- f. Drilling of water wells.

5. Monthly report of operations in duplicate, on form 9-329, must be submitted promptly each month beginning with spudding of the first well on a lease and continuing until approved abandonment of all drilling and producing operations.

6. Log, in duplicate, on form 9-330, must be submitted within 10 days of reaching temporary or permanent drilling depth. Copies of all electrical logs, sample cutting logs, drilling-time logs, and any other well information not given on the standard form, should be attached to same.

7. Separate applications to drill any water well on federal land is required, and special procedure is necessary for abandonment of any well having a desirable water supply.

8. All wells and lease premises shall be maintained in first class condition with due regard to safety, conservation, appearance, and refuse disposal.

9. The notice of intention to drill any well is rescinded without further notice if drilling is not started within 90 days of approval.

10. Cement must be allowed to set a minimum of 72 hours on all strings of casing prior to drilling the plug, except for modification provided by the Supervisor's order dated March 18, 1947, copy of which will be furnished on request.

SPECIAL (None, if so indicated).

New Mexico
OIL CONSERVATION COMMISSION

GOVERNOR EDWIN L. MECHEM
CHAIRMAN

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AZTEC. NEW MEXICO

U. S. LAND OFFICE New Mexico
SERIAL NUMBER 03013
LEASE OR PERMIT TO PROSPECT 180 A.
374 Sec. 10 is designated
drilling unit.

UNITED STATES ^{drill}
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Paul Stock Address P. O. Box 930
 Lessor or Tract #1 Mills Field Wildcat State New Mexico
 Well No. 1 Sec. 10 T. 23N R. 11 W Meridian N.M.P.M. County San Juan
 Location 990 ft. {N.} of So. Line and 990 ft. {E.} of East Line of Sec. 2, T. 23N 11W Elevation 6302' D.F.

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 _____

Date October 19, 1951 Title _____

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

Commenced drilling July 5, 1951 Finished drilling September 15, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from C 675 to 685 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 500 to 540 No. 3, from 1080 to 1110
No. 2, from 620 to 665 No. 4, from 1285 to 1335

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

[illegible]

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 _____ feet to _____ feet, and from _____ feet to _____ feet.

Cable tools were used from 0 feet to 1650 feet, and from _____ feet to _____ feet.

DATES

----- 9/15 -----, 19-51 Put to producing -----, 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 ----- None Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

Ray Heavis	Driller	Bill Shields	Driller
Bill Power	Driller		Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	490	490	Shale
490	540	50	Slate and coal - water.
540	550	10	shale
550	645	95	Gray sand.
645	720	75	Gray shale & sandy shale
720	965	245	Blue shale
965	1140	175	Gray sandy shale & sand
1140	1315	175	Sandy shale & sand
1315	1370	55	Sand - water
1370	1390	20	Brown shale
1390	1420	30	Lime shells
1420	1580	160	Brown shale
1580	1650	70	Brown sandy shale

FORMATION RECORD—Continued

[illegible]

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 balling.

Being used temporarily as water well. It is intended to move on rotary at a later date and test the deeper formations.

HISTORY OF OIL OR GAS WELL

16-43094-1 U. S. GOVERNMENT PRINTING OFFICE