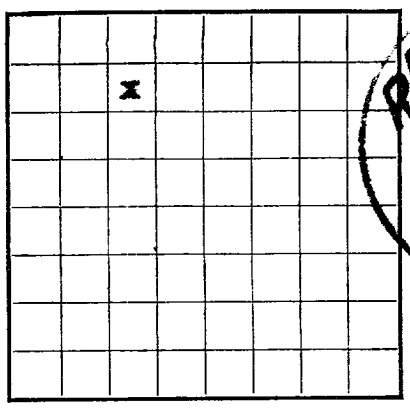
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. Land Office Jicarilla
Serial Number 66
Lease or Permit to Prospect



LOCATE WELL CORRECTLY

UNITED STATES Jicarilla Tribal
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company EL PASO NATURAL GAS COMPANY Address Box 997, Farmington, New Mexico
Lessor or Tract Jicarilla Field S. Blanco PC State New Mexico
Well No. 14-B Sec. 33 T. 25N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1090 ft. {N./S.} of N Line and 1650 ft. {E./W.} of W Line of Sec. 33 Elevation 6843
(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

Date January 20, 1960 Title Division Petroleum Engineer

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

Commenced drilling April 21st, 19 59 Finished drilling December 29th, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3019 to 3089 (G) 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 to 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 From—	Perforated To—	Purpose
8-5/8"	24#	8	[illegible]	131	[illegible]	[illegible]			[illegible]
5-1/2"	15.5#	8	[illegible]	3117	Pattern	[illegible]	3052	3067	Production
							3054	3062	
							3081	3089	
2-3/8"	4.7#			2999	-	-	-	-	Tubing String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	131	90	Pump & Plug		
5-1/2"	3117	206			
2-3/8"	3006	-			

PLUGS AND ADAPTERS

Heaving plug—Material None Length Depth set
Adapters—Material None Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
PBTD 3099. Sandfraced through perforations with 26,000 gallons water and 30,000# sand. Breakdown pressure 1200, treating pressure 1600-1800. Average injection rate 53 BPM. Dropped 90 rubber balls during treatment.						

TOOLS USED

Rotary tools were used from Surface feet to TD 3117 feet, and from feet to feet
Cable tools were used from to complete feet to feet, and from feet to feet

DATES

Ran Tubing December 31st, 1959 Put to producing Potential Test January 13th, 1960

The production for the first 24 hours was barrels of fluid of which % was oil; %
emulsion; % water; and % sediment.

If gas well, cu. ft. per 24 hours 1,528,000 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in. 900 Open 3 hours through 3/4" choke on casing. Choke volume 1,495 MCF/day. AOF 1,528 MCF/day.

EMPLOYEES

Benson-Montin-Greer Drilling Corp., Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2948	2948	Surface sand and shale, Ojo Alamo, Kirtland and Fruitland formations
2948	2956	8	Coal
2956	2959	3	Shale
2959	2961	2	Coal
2961	2979	18	Shale
2979	2988	9	Coal
2988	2992	4	Shale
2992	2994	2	Coal
2994	3019	25	Shale
3019	3089	70	Sand
3089	3117	28	Shale
			TOP OF PICTURED CLIFFS (GRN) 3019'

[OVER]

Budget Bureau No. 42-R356.4. Approval expires 12-31-60.

Form 9-330

U. S. Land Office [illegible]

Serial Number [illegible]

Lease or Permit to Prospect [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED JAN 22 1960 OIL CON. COM. DIST. 3

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company [illegible] NATURAL GAS COMPANY Address Box [illegible], Farmington, New Mexico

Lessor or Tract [illegible] Field [illegible] State New Mexico

Well No. [illegible] Sec. [illegible] T. [illegible] R. [illegible] Meridian N. M. P. M. County [illegible]

Location [illegible] ft. of [illegible] Line and [illegible] ft. of [illegible] Line of [illegible] Elevation [illegible] (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

Date January [illegible], 1960 Title [illegible]

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

Commenced drilling [illegible], 19[illegible] Finished drilling December [illegible], 19[illegible]

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from [illegible] to [illegible] (G) 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 to 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 From—	Perforated To—	Purpose
[illegible]				[illegible]			[illegible]	[illegible]	

HISTORY OF OIL OR GAS WELL

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.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]			

PLUGS AND ADAPTERS

Heaving plug—Material [illegible] Length Depth set

Adapters—Material [illegible] Size

SHOOTING RECORD

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

PBTD [illegible]. Sandfraced through perforations with 26,000 gallons water and 30,000 sand. Breakdown pressure [illegible], treating pressure [illegible]. Average injection rate [illegible] BPM. Dropped [illegible] rubber balls during treatment.

TOOLS USED

Rotary tools were used from surface feet to [illegible] feet, and from feet to feet

Cable tools were used from [illegible] feet to feet, and from feet to feet

DATES

[illegible] December 31st, 1959 Put to producing January [illegible], 1960 [illegible] Test

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 [illegible] Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. [illegible]

[illegible] through [illegible] choke [illegible] choke volume 1,495 MCF/day, AOF 1,525 MCF/day.

EMPLOYEES

[illegible] Drilling Corp., Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	[illegible]	[illegible]	Surface sand and shale, [illegible], Kirtland and Fruitland formations
2148	[illegible]	8	Coal
2156	[illegible]	[illegible]	Shale
[illegible]	[illegible]	[illegible]	Coal
2181	[illegible]	[illegible]	Shale
[illegible]	[illegible]	[illegible]	Coal
[illegible]	[illegible]	[illegible]	Shale
2212	[illegible]	[illegible]	Coal
[illegible]	[illegible]	[illegible]	Shale
[illegible]	[illegible]	[illegible]	Sand
[illegible]	[illegible]	[illegible]	Shale

Top of PICTURED CLIFFS (GAS) [illegible]'

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION