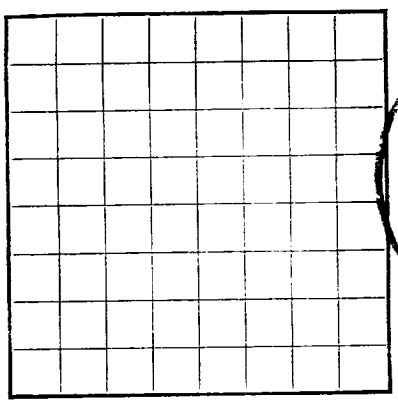
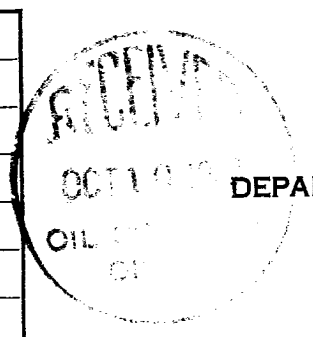
Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 077833-A
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico

Lessor or Tract Mansfield Field Blanco Pictured Cliffs State New Mexico

Well No. 7 Sec. 29 T. 30N R. 9W Meridian N.M.P.M. County San Juan

Location 1700 ft. {N. / XX} of S Line and 1610 ft. {E. / XX} of W Line of Section 29 Elevation 6037 (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 ORIGINAL SIGNED H. E. McANALLY

Date October 5, 1962 Title Petroleum Engineer

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

Commenced drilling 8-17-, 19 62 Finished drilling 8-21-, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2657 to 2720 (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 rd	J-55	299	Howco				Surface
2 7/8"	6.4	8 rd	J-55	2790	Baker				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	313	160	circulated		
2 7/8"	2790	170	single stage		

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
2660-2666; 2694-2700;		Water frac Pictured Cliffs w/30,760 gallons water (1% calcium chloride, 7# J-98/1000 gallons) and 31,000# sand. Flush w/1660 gallons water. I.R. 18.8 BPM. Max pr 4000#, MIP 2800#, Fr pr 2600-4000#. Dropped 1 set of 12 balls.				

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

9-13, 19 62 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 1,261,000 Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 1,016 csg. A.O.F. 1279 MCF/D

EMPLOYEES

____, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1397	1397	Tan to gry cr-grn ss interbedded w/gry sh.
1397	1554	157	Ojo Alamo SS. White cr-grn s.
1554	2359	809	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2359	2657	298	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2657	2720	63	Pictured Cliffs forms. Gry, fine-grn, tight, varicolored soft ss.
2720	2790	70	Lewis form. Gry, fine-grn dense sil ss.

(OVER)

16—43094-5

FOLD | MARK

Form 9-330

U.S. Land Office: Santa Fe
Serial Number: [illegible]
Lease or permit to prospect: [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company: El Paso Natural Gas Company — Address: Box [illegible], Farmington, New Mexico
Lessor or Tract: Hanfield [illegible] — Field: Blanco Pictured Cliffs — State: New Mexico
Well No. [illegible] Sec. [illegible] T. [illegible] R. [illegible] Meridian N.M.P.M. County: San Juan
Location [illegible] ft. of [illegible] Line and [illegible] ft. of [illegible] Line of Section [illegible] Elevation [illegible]

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: ORIGINAL SIGNED BY [illegible] McANALLY

Date: October [illegible], 19[illegible] — Title: Petroleum Engineer

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

Commenced drilling [illegible], 19 62 Finished drilling [illegible], 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from [illegible] to 2[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–	To–	Purpose

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.

HISTORY OF OIL OR GAS WELL

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

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]	single stage		

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

2[illegible]-2[illegible], 2[illegible]-27[illegible]; Water frac Pictured Cliffs w/ [illegible] gallons water ([illegible] chlorides, [illegible]/1000 gallons) and 3[illegible],000# sand. Flush w/[illegible] gallons water [illegible] 18.6 BPM. Max pr 4000#, BDP 2800#, tr pr 2[illegible]-4000#. Dropped [illegible] set of [illegible] balls.

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

DATES

Put to producing ..., 19...
[illegible] 19 62
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. 1,015 csg A.O.F. [illegible] MCF/D

EMPLOYEES

..., Driller ..., Driller
..., Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1397	1397	[illegible] gr-grn ss [illegible] interbedded w/gry sh.
1397	1554	157	Ojo Alamo SS. White [illegible] ss.
1554	2363	809	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
[illegible]	[illegible]	298	Fruitland form. Gry sh [illegible], scattered coals [illegible] coals and gry, tight [illegible] grn ss.
[illegible]	[illegible]	63	Pictured Cliffs form. [illegible] fine-grn, tight variegated soft ss.
[illegible]	[illegible]	70	Lewis form. [illegible] dense sil ss.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-4