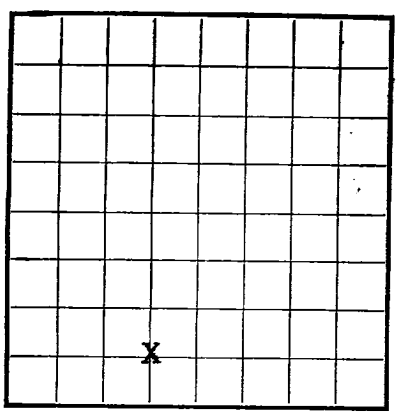
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 081226
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 Products Co. Address P. O. Box 1565, Farmington, N. Mex.

Lessor or Tract Horseshoe Canyon Field Horseshoe-Gallup State New Mexico

Well No. 4 Sec. 3 T. 30N R. 16W Meridian NMPM County San Juan

Location 330 ft. {N. / S} of S Line and 1650 ft. {E. / W} of W Line of Sec. 3 Elevation 5,583
(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 13, 1958 Title Petroleum Engineer

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

Commenced drilling 10-4, 1957 Finished drilling 10-11, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1504 to 1532 No. 4, from to

No. 2, from 1593 to 1623 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	24.0	8 Rd.	J-55	117	Baker				Surface
5-1/2	15.50	8 Rd.	J-55	1661	Baker		1504	1623	Prod. Csg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	124	200	Circulated		
5-1/2	1667	100	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

TOOLS USED

Rotary tools were used from 0 feet to 1669 feet, and from feet to feet

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

DATES

11-3, 1957 Put to producing 12-4, 1957

The production for the first 24 hours was 95 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °API 40.2

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	188	188	Point Lookout form. Gry, very fine Sil ss w/frequent sh breaks.
188	1272	1084	Mancos form. Gry carb sh.
1272	1463	191	Upper Gallup form. Sh, gy-blk, calc. w/ arogonite inclus.
1463	1645	182	Lower Gallup form. Lt gry to brn calc carb micac Glaoco very fine gry ss w/irrec interbedsh
1645	1669	24	Sanastee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.

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16—43094-4

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

Form 9-330

U. S. Land Office Santa Fe
Serial Number 081226
Lease or Permit to Prospect

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company [illegible] Gas Products Co. Address P.O. Box 1565, Farmington, N. Mex.
Lessor or Tract [illegible] Field Horseshoe-Gallup State New Mexico
Well No. 4 Sec. [illegible] T. 30N R. 16W Meridian NMPM County San Juan
Location 330 ft. N/S of [illegible] Line and 1650 ft. E/W of N. Line of Sec. 3 Elevation 5062
(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] Title Petroleum Engineer

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

Commenced drilling [illegible], 1957 Finished drilling [illegible], 1957

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1506 to 1532 No. 4, from .... to ....
No. 2, from 1520 to [illegible] No. 5, from .... to ....
No. 3, from .... to .... No. 6, from .... to ....

10-10-57 1598-1631. Rec. 33'-24', ss, 7', sh, 3', ls, 4', sh.

IMPORTANT WATER SANDS

10-10-57 1548-1598. Rec. 50', - 41', sh, 9', ss.

No. 1, from .... to .... No. 3, from .... to ....
No. 2, from .... to .... No. 4, from .... to ....

10-8-57 1500-1548. Rec. 48', - 2', sh, 27', ss, 4', sh, 2', ss, 27', sh, 2', ss, 9', sh.

CASING RECORD

Cores

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	24.0	8 Rd.	J-55	117	Baker				Surface
5-1/2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[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 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
8-5/8	124	200	Circulated		
5-1/2	1667	100	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

TOOLS USED

Rotary tools were used from 0 feet to 1669 feet, and from .... feet to .... feet
Cable tools were used from .... feet to .... feet, and from .... feet to .... feet

DATES

11-3, 1957 Put to producing 12-4, 1957

The production for the first 24 hours was 95 barrels of fluid of which 100 % was oil; .... % emulsion; .... % water; and .... % sediment. Gravity, °Bé. 40.2

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

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

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	158	158	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
158	1272	1084	Mancos form. Gry carb. sh.
1272	1463	191	Upper Gallup form. Sh, gy-blk, calc. w/ arogonite inclus.
1463	1545	[illegible]	Lower Gallup form. [illegible], gry to brn calc carb micac [illegible]
1545	1605	[illegible]	Sanostee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter dr gry s. Greco very fine gry ss w/irreg inter [illegible]

[OVER]

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FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION