Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079729
LEASE OR PERMIT TO PROSPECT

RECEIVED OCT 15 1958 OIL CON. COM. DIST. 3

RECEIVED OCT 14 1958 U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEXICO

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 997, Farmington, New Mexico
Lessor or Tract San Juan 28-4 Unit Field Blanco State New Mexico
Well No. 17-20 Sec. 20 T. 28N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1150 ft. [S.] of N Line and 890 ft. [W.] of E Line of Section 20 Elevation 7340'
(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 By: D. W. Meehan

Date October 9, 1958 Title Petroleum Engineer

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

Commenced drilling 7-13-, 19 58 Finished drilling 8-27-, 19 58

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4209 to 4372 (G) No. 4, from 6450 to 6649 (G)
No. 2, from 6106 to 6167 (G) No. 5, from to
No. 3, from 6167 to 6450 (G) 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 |
|---|---|---|---|---|---|---|---|---|---|
| 10 3/4" | 32.75 | P.E. | S.W. | 282' | Howco | | | | Surface |
| 7 5/8" | 26.40 | 8 Rd. | J-55 | 4461' | Baker | | | | Intermediate |
| 5 1/2" | 15.50 | 8 Rd. | J-55 | 6659' | Baker | | | | Prod. Liner |
| | | | | | | | | | |
| | | | | | | | | | |
| 2" | 4.7 | 8 Rd. | J-55 | 6592' | | | | | Prod. tbg. |

## MUDDING AND CEMENTING RECORD

| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|---|---|---|---|---|---|
| 10 3/4" | 294' | 200 | Circulated | | |
| 7 5/8" | 4471' | 250 | Single Stage | | |
| 5 1/2" | 4415-6684' | 275 | Single Stage | (Cem. w/175 sks. & sq. w/100 sks.) | |

MARK FOLD

## 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 |
|---|---|---|---|---|---|---|
| | | See Well History | | | | |

## TOOLS USED

Rotary tools were used from 295 feet to 4474 feet, and from 4474 feet to 6690 feet (Gas Drilled)
Cable tools were used from 0 feet to 295 feet, and from feet to feet

## DATES

9-4-, 19 58 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 2,580,000 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in. 1178 A.O.F.--3174 MCF/D

## EMPLOYEES

, Driller , Driller
, Driller , Driller

## FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION |
|---|---|---|---|
| 0 | 3599 | 3599 | Tan to gry cr-grn ss interbedded w/gry sh. |
| 3599 | 3809 | 210 | Ojo Alamo ss. White cr-grn s. |
| 3809 | 4081 | 272 | Kirtland form. Gry sh interbedded w/tight gry fine-grn ss. |
| 4081 | 4209 | 128 | Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss. |
| 4209 | 4372 | 163 | Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss. |
| 4372 | 6106 | 1734 | Lewis formation. Gry to white dense sh w/silty to shaly ss breaks. |
| 6106 | 6167 | 61 | Cliff House ss. Gry fine-grn, dense sil ss. |
| 6167 | 6450 | 283 | Menefee form. Gry, fine-grn s, carb sh & coal. |
| 6450 | 6649 | 199 | Point Lookout form. Gry very fine sil ss w/frequent sh breaks. |
| 6649 | 6690 | 41 | Mancos formation. Gry carb sh. |



16—43094-4

## FORMATION RECORD—Continued

| FROM— | TO— | TOTAL FEET | FORMATION |
|---|---|---|---|
| | | | |

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

## 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.**

8-31-58 Perf. w/4 way squeeze gun @ 6488'. C.O.T.D. 6644'. Set EBC tool @ 6410'. Squeeze perfs. w/25 sks. Neat w/2% CaCl. Approx. 5 sks. on formation. Squeeze pressure 3000#.

9-1-58 C.O.T.D. 6650'. Perf. Point Lookout (2 dyna jets/ft.) @ 6454-6474; 6498-6516; 6546-6570; 6580-6598; 6612-6634. Swf. perfs. w/58,280 gal. water, 60,000# sand. Flush w/22,680 gal. (total). I.R. 72 BPM. BD pr. 1300#, max. pr. 2000#, avg. trtg pr. 1300-1500-2000#. Frac. 4 min., truck Bunie down and ball dropped jammed, flushed, repaired ball injector, continued frac w/4 trucks (Allisons). Dropped 2 sets of 50 balls each for 3 stages.

FORM 9-331