

U. S. LAND OFFICE **Navajo-Usa Tribal**
 SERIAL NUMBER **14-20-604-1931**
 LEASE OR PERMIT TO PROSPECT -----

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Products Co. Address Box 1545, Farmington, New Mexico
 Lessor or Tract Horseshoe Ute Field Horseshoe Gallup State New Mexico
 Well No. 18 Sec. 28 T. 31N R. 16W Meridian NMPM County San Juan
 Location 790 ft. N. of S Line and 3430 ft. E. of E Line of Section 28 Elevation 5756'
 (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: WILLIAM N. GAGNER**
Title **Petroleum Engineer**

Date **September 2, 1959**

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

Commenced drilling July 22, 1959 Finished drilling July 28, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ 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		Purpose
							From—	To—	
1 1/2	10.5	12	Wells	100	Wells	Wells	100	100	Wells
2	12.5	12	Wells	100	Wells	Wells	100	100	Wells
2 1/2	14.5	12	Wells	100	Wells	Wells	100	100	Wells
3	16.5	12	Wells	100	Wells	Wells	100	100	Wells
3 1/2	18.5	12	Wells	100	Wells	Wells	100	100	Wells
4	20.5	12	Wells	100	Wells	Wells	100	100	Wells
4 1/2	22.5	12	Wells	100	Wells	Wells	100	100	Wells
5	24.5	12	Wells	100	Wells	Wells	100	100	Wells
5 1/2	26.5	12	Wells	100	Wells	Wells	100	100	Wells
6	28.5	12	Wells	100	Wells	Wells	100	100	Wells
6 1/2	30.5	12	Wells	100	Wells	Wells	100	100	Wells
7	32.5	12	Wells	100	Wells	Wells	100	100	Wells
7 1/2	34.5	12	Wells	100	Wells	Wells	100	100	Wells
8	36.5	12	Wells	100	Wells	Wells	100	100	Wells
8 1/2	38.5	12	Wells	100	Wells	Wells	100	100	Wells
9	40.5	12	Wells	100	Wells	Wells	100	100	Wells
9 1/2	42.5	12	Wells	100	Wells	Wells	100	100	Wells
10	44.5	12	Wells	100	Wells	Wells	100	100	Wells
10 1/2	46.5	12	Wells	100	Wells	Wells	100	100	Wells
11	48.5	12	Wells	100	Wells	Wells	100	100	Wells
11 1/2	50.5	12	Wells	100	Wells	Wells	100	100	Wells
12	52.5	12	Wells	100	Wells	Wells	100	100	Wells
12 1/2	54.5	12	Wells	100	Wells	Wells	100	100	Wells
13	56.5	12	Wells	100	Wells	Wells	100	100	Wells
13 1/2	58.5	12	Wells	100	Wells	Wells	100	100	Wells
14	60.5	12	Wells	100	Wells	Wells	100	100	Wells
14 1/2	62.5	12	Wells	100	Wells	Wells	100	100	Wells
15	64.5	12	Wells	100	Wells	Wells	100	100	Wells
15 1/2	66.5	12	Wells	100	Wells	Wells	100	100	Wells
16	68.5	12	Wells	100	Wells	Wells	100	100	Wells
16 1/2	70.5	12	Wells	100	Wells	Wells	100	100	Wells
17	72.5	12	Wells	100	Wells	Wells	100	100	Wells
17 1/2	74.5	12	Wells	100	Wells	Wells	100	100	Wells
18	76.5	12	Wells	100	Wells	Wells	100	100	Wells
18 1/2	78.5	12	Wells	100	Wells	Wells	100	100	Wells
19	80.5	12	Wells	100	Wells	Wells	100	100	Wells
19 1/2	82.5	12	Wells	100	Wells	Wells	100	100	Wells
20	84.5	12	Wells	100	Wells	Wells	100	100	Wells
20 1/2	86.5	12	Wells	100	Wells	Wells	100	100	Wells
21	88.5	12	Wells	100	Wells	Wells	100	100	Wells
21 1/2	90.5	12	Wells	100	Wells	Wells	100	100	Wells
22	92.5	12	Wells	100	Wells	Wells	100	100	Wells
22 1/2	9								

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	121'	125	Circulated		
5-1/3"	1740'	100	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

[illegible]

SHOOTING RECORD

[illegible]

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 ~~August 77~~, 19~~50~~

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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

EMPLOYEES

_____, Driller _____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	273	273	Point Lookout Formation. Gy., v/fn. silty ss. w/frequent shale breaks.
273	1364	1091	Manassas Formation. Gy. carb. shale.
1364	1717	353	Gallup Formation. Lt. gy. to bra. calc. carb. micaceous glauconitic. Very fn. to med. gr. ss. w/irreg. interbedded shale.
1717	1761	44	Senassee Formation. Dk. gy. calc. v/fn. to fn. gy. ss. w/calc. veins, w/irreg. lmbd dk. gy. sd.
			TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.
FROM—	TO—	TOTAL FEET	FORMATION

TOPS ARE FROM ELECTRIC LOGS
AND RADIOACTIVITY LOGS.

FROM—	TO—	TOTAL FEET	FORMATION
1717	1731	14	Carbonate formation, dk. gray calc. with to in. of ss. and sh. layers, wavy bedded.
1584	1717	133	Carbonate formation, dk. gray to brn. calc. with sh. and ss. layers, wavy bedded.
373	1584	1211	Carbonate formation, dk. gray calc. with sh. and ss. layers, wavy bedded.
0	373	373	Point of contact formation, dk. gray calc. with sh. and ss. layers, wavy bedded.

FORMATION RECORD	EMPLOYEES
Driller, _____	Driller, _____
Driller, _____	Driller, _____

TOOLS USED	DATES
Rotary tools were used from _____ feet to _____ feet	Put to producing _____, 19____
Cable tools were used from _____ feet to _____ feet	_____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment.

SHOOTING RECORD	PLUGS AND ADAPTERS
Size _____	Heaving plug—Material _____
Explosive used _____	Adapters—Material _____
Quantity _____	Size _____
Date _____	Length _____
Depth shot _____	Depth set _____
Depth cleaned out _____	

MUDDING AND CEMENTING RECORD
Size of casing _____
Where set _____
Number sacks of cement _____
Method used _____
Mud gravity _____
Amount of mud used _____

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 therefor. If there were any changes made in the casing, state date, size, position, and quantity of material used. If the well has been dynamited, give date, size, position, and quantity of material used. If the well has been plugged or bridged, give date, size, position, and results of pumping or bailing.

CASING RECORD
No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____
No. 5, from _____ to _____
No. 6, from _____ to _____
No. 7, from _____ to _____
No. 8, from _____ to _____
No. 9, from _____ to _____
No. 10, from _____ to _____
No. 11, from _____ to _____
No. 12, from _____ to _____
No. 13, from _____ to _____
No. 14, from _____ to _____
No. 15, from _____ to _____
No. 16, from _____ to _____
No. 17, from _____ to _____
No. 18, from _____ to _____
No. 19, from _____ to _____
No. 20, from _____ to _____
No. 21, from _____ to _____
No. 22, from _____ to _____
No. 23, from _____ to _____
No. 24, from _____ to _____
No. 25, from _____ to _____
No. 26, from _____ to _____
No. 27, from _____ to _____
No. 28, from _____ to _____
No. 29, from _____ to _____
No. 30, from _____ to _____
No. 31, from _____ to _____
No. 32, from _____ to _____
No. 33, from _____ to _____
No. 34, from _____ to _____
No. 35, from _____ to _____
No. 36, from _____ to _____
No. 37, from _____ to _____
No. 38, from _____ to _____
No. 39, from _____ to _____
No. 40, from _____ to _____
No. 41, from _____ to _____
No. 42, from _____ to _____
No. 43, from _____ to _____
No. 44, from _____ to _____
No. 45, from _____ to _____
No. 46, from _____ to _____
No. 47, from _____ to _____
No. 48, from _____ to _____
No. 49, from _____ to _____
No. 50, from _____ to _____
No. 51, from _____ to _____
No. 52, from _____ to _____
No. 53, from _____ to _____
No. 54, from _____ to _____
No. 55, from _____ to _____
No. 56, from _____ to _____
No. 57, from _____ to _____
No. 58, from _____ to _____
No. 59, from _____ to _____
No. 60, from _____ to _____
No. 61, from _____ to _____
No. 62, from _____ to _____
No. 63, from _____ to _____
No. 64, from _____ to _____
No. 65, from _____ to _____
No. 66, from _____ to _____
No. 67, from _____ to _____
No. 68, from _____ to _____
No. 69, from _____ to _____
No. 70, from _____ to _____
No. 71, from _____ to _____
No. 72, from _____ to _____
No. 73, from _____ to _____
No. 74, from _____ to _____
No. 75, from _____ to _____
No. 76, from _____ to _____
No. 77, from _____ to _____
No. 78, from _____ to _____
No. 79, from _____ to _____
No. 80, from _____ to _____
No. 81, from _____ to _____
No. 82, from _____ to _____
No. 83, from _____ to _____
No. 84, from _____ to _____
No. 85, from _____ to _____
No. 86, from _____ to _____
No. 87, from _____ to _____
No. 88, from _____ to _____
No. 89, from _____ to _____
No. 90, from _____ to _____
No. 91, from _____ to _____
No. 92, from _____ to _____
No. 93, from _____ to _____
No. 94, from _____ to _____
No. 95, from _____ to _____
No. 96, from _____ to _____
No. 97, from _____ to _____
No. 98, from _____ to _____
No. 99, from _____ to _____
No. 100, from _____ to _____

LOG OF OIL OR GAS WELL
Location _____
Well No. _____
Sec. _____ T. _____ R. _____
Field _____
County _____
State _____
Address _____
Company _____

LOG OF OIL OR GAS WELL
Location _____
Well No. _____
Sec. _____ T. _____ R. _____
Field _____
County _____
State _____
Address _____
Company _____

LOG OF OIL OR GAS WELL
Location _____
Well No. _____
Sec. _____ T. _____ R. _____
Field _____
County _____
State _____
Address _____
Company _____

LOG OF OIL OR GAS WELL
Location _____
Well No. _____
Sec. _____ T. _____ R. _____
Field _____
County _____
State _____
Address _____
Company _____