

U. S. LAND OFFICE **SF-**
SERIAL NUMBER **078372-1**
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 1560, Farmington, New Mexico
 Lessor or Tract Frontier Field Undesig. Gallup State New Mexico
 Well No. 4-B Sec. 4 T. 27N R. 11W Meridian 14WPM County San Juan
 Location 990 ft. N. of S Line and 990 ft. E. of W Line of section 4 Elevation 6,733

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.

Date August 25, 1960 Signed ORIGINAL SIGNED BY: VAN E. DYKES
Title Petroleum Engineer

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

Commenced drilling June 27 1960 Finished drilling July 9 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 346 to 356 No. 4, from _____ to _____
No. 2, from 394 to 394 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—	
9-5/8"	36.00#	3 Rd.	J-55	160'	Tennis Pat.				Surf. tag.
5-1/2"	15.50#	3 Rd.	J-55	6026'	Tennis Pat.		5949	5994	Prod. tag.
				23			5948	5941	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	171'	150	Circulated		
5-1/2"	6037'	200-1st Stage	Pump and		
		100-2nd Stage	Plug		

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 0 feet to 6035 feet, and from _____ feet to _____ feet.

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

DATES

-----, 19 60	Put to producing -----, 19 60
July 21	August 3
The production for the first 24 hours was 240 ----- barrels of fluid of which 100 ----- % was oil; ----- %	
emulsion; ----- % water; and ----- % sediment.	
	Gravity, °Bé. 40.2 ° API
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	814	814	Interbedded shale.
314	896	82	Ojo Alamo: White, cse. grained sand.
896	1746	850	Kirtland: Gy. sh. inbd. w/tight gy. FG ss.
1746	1946	200	Fruitland: Gy. carb. sh., scat. coals, coals & gy. tight FG ss.
1946	2121	175	Pictured Cliffs: Gy., FG, tight, varicolored soft ss.
2121	2869	748	Lewis: Gy. to Wh. ds. sh. w/silty to shaly ss brks.
2869	4387	1518	Mesa Verde: Gy., FG, ds. silty ss, carb. sh. & coal.
4387	4676	289	Point Lookout: Gy., v/fa. silty ss. w/freq. sh. brks.
4676	5555	879	Mancoes: Gy. carb. shale.
5555	5840	285	Gallup: Lt. gy. to bra. calc. carb. mica. glauc. V/fa. to med. gr. ss. w/irreg. inbd. shale.
5840	5948	108	Huerfano: Fine to medium grained ss.
5948	6035	87	Tocito: Fn. to MG sub angular to sub round cir. quartz sand glauconite lt. gn. to tan.
			TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.

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AND RADIOACTIVITY LOGS.

ORIGINAL SIGNED BY: VAN E. GAY

Sandhill treatment 56607-56608 with 40,000 gals. of oil and 37,500# of sand.
 Flashed with 5,000 gals. of oil. Injection began 28.0 WPM. Production
 treating pressure 2050 psi. Production pressure 2200 psi. Average treating
 pressure 2000-2200 psi. Injected 27 barrels one time with no pressure
 increase.

and treated with 6,000 gallons of oil. Injection rate: 30.0 B.W.U.
Treatment dressing pressure 2950 psi. Drilled 36 holes for two stages
with 850 psi pressure.

27. shale bottom.

Core #2 from 5906-5909; Cut 35, Recovered 5' shale top, 16' ss middle;

Core # from 5858'-5869'. Core 31'. Recovered 31'. 13' shale and 18' sand.

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

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