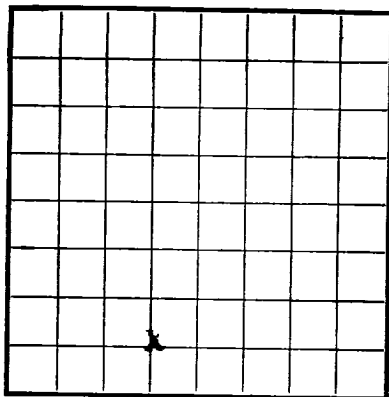




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Products Co. Address Box 1565, Farmington, New Mexico
 Lessor or Tract Horseshoe Canyon Field Horseshoe Gallup State New Mexico
 Well No. 13 Sec. 4 T. 30N R. 16W Meridian NMPM County San Juan
 Location 660 ft. N of S Line and 3300 ft. E of E Line of Section 4 Elevation 5330'

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.

ORIGINAL SIGNED BY: JOSEPH E. KREGER

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Date February 10, 1959 Signed _____ Title Petroleum Engineer

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

Commenced drilling December 31, 19 58 Finished drilling January 11, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>1098</u> to <u>1140</u>	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. 2, from _____ to _____

No. 3, 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—	
8-5/8"	32.00	8 Rd.	New	95	Baker				Surface
5-1/2"	15.00	8 Rd.	New	100	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"	107	100	Circulated		
5-1/2"	1250	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
		See "Well History"				

TOOLS USED

Rotary tools were used from 110 feet to 1250 feet, and from _____ feet to _____ feet.
Cable tools were used from 0 feet to 110 feet, and from _____ feet to _____ feet.

DATES

-----January 14-----, 1959 Put to producing -----February 1-----, 1959

The production for the first 24 hours was 79.05 barrels of fluid of which 100% was oil; -----% emulsion; -----% water; and -----% sediment. Gravity °Ré 100.0

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	885	885	Mancos Form. Gy. carb. shale.
885	1226	341	Gallup Form. Lt. gy. to brn. calc. carb. carb. micaceous glauconitic. Very fn. to med. gr. ss. w/irreg. interbedded shale.
1226	1250	24	Sanastee Form. Dk. gy. calc. v/fn. to fn. gy. ss. w/calc. veins, w/irreg. inbd. dk. gy. sd.
			TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.

LOG OF OIL OR GAS WELL

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

Date _____ Title _____

Commenced drilling _____, 19____
Finished drilling _____, 19____

OIL OR GAS SANDS OR ZONES

(Derote das by G)

Well	From	To	Notes
1-14-59	No. 1, from	1098	SOE. perf. int. 1098-1100. 14.5 gal. oil and 50.000* (20-40) sand.
	No. 2, from	1098	Finish with 1250 gal. oil. Injection rate--54.0 bbls./min. Maximum
	No. 1, from	1098	Treating Pressure -- 1600 psi.; Breakdown Pressure -- 1200 psi.; Average
	No. 3, from	1098	Treating Pressure -- 1200 psi. No. 3. 14 rubber balls each with 125, 250,
	No. 3, from	1098	375 sacks sand, pressure 1098-1100, 400 psi. 200 psi. drop after
	No. 3, from	1098	last set balls.
	No. 6, from	1098	
	No. 5, from	1098	
	No. 4, from	1098	

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
2 1/2"	10'	1	Hand trowel		
2 1/2"	10'	1	Hand trowel		

PLUGS AND ADAPTERS

Adapters—Material	Size	Length	Depth set
Leaving plug—Material			

SHOOTING RECORD

[illegible]

TOOLS USED

1991	to	1991	and from	1991	to	1991	from	new rotary tools were used
1991	to	1991	and from	1991	to	1991	from	new cable tools were used

DATE

It gas well, cu. ft. per 24 hours	Gallons gasoline per 1,000 cu. ft. of gas
% water; and	Gravity, B $\frac{e$
% sediment	
The production for the first 24 hours was	barrels of fluid of which % was oil; %
	Put to producing

EMPLOYEES

Driller		Driller			
Driller		Driller			

FORMATION RECORD

[illegible]

—03904—

NOTATION

OVER]

LEW TYLO

—DL

FROM—