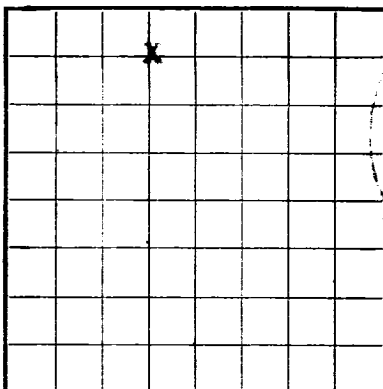
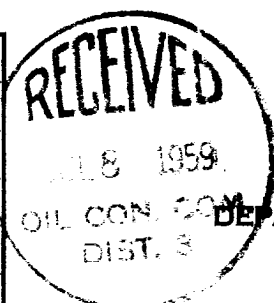




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Navajo Tribal Con.
SERIAL NUMBER 14-20-603-703
LEASE OR PERMIT TO PROSPECT _____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 Navajo Field Horseshoe Gallup State New Mexico
Well No. 1 Sec. 5 T. 30N R. 16W Meridian NMPM County San Juan
Location 660 ft. S. of N. Line and 1980 ft. E. of W. Line of Section 5 Elevation 5300'
(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: VAN E. SWISSDate July 2, 1959 Title Petroleum Engineer

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

Commenced drilling May 23, 19 59 Finished drilling May 26, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 100' to 1126' 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—	
7-5/8"	28.0	8	Ray	100	Ball	Surface Csg.			
5-1/2"	16.5	8	Ray	1126	Ball	Surface Csg.			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7-5/8"	187	100	Circulated		
5-1/2"	1231	50	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 1232 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

June 6, 19 59 Put to producing June 23, 19 59
The production for the first 24 hours was 96.10 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 39.3 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

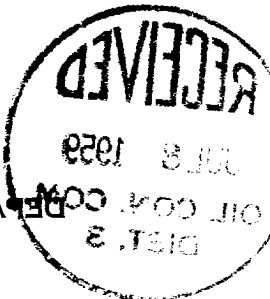
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	860	860	Mancos Form. Gy. Carb. Shale.
860	1050	190	Upper Gallup Form. Shale, gy.-blk., calc. w/arragonite inclusion.
1050	1232	182	Lower Gallup Form. Lt. gy. to brn. calc. carb. micaceous glauconitic. Very fm. to med. gr. ss. w/irreg. interbedded shale.
TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.			

FORMATION RECORD—Continued

LEASE OR PERMIT TO PROSPECT
SERIAL NUMBER 14-20-613-735
U. S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A 10x10 grid with a small black mark in the top-right quadrant. The mark is located in the 4th column from the left and the 8th row from the bottom.

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Date _____ July 2, 1907
 Title Petroleum Engineer
 Signed _____
 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: VAN E. BOWEN
 Location 600 ft. S. of N. line and 100 ft. E. of E. line of Section 36, Township 36 N., Range 10 E., Meridian 10 W., County San Juan, New Mexico
 Well No. 1 Sec. 36, T. 36 N. R. 10 E. Meridian 10 W. County San Juan
 Lessor or Tract Horrocks Navajo Field Navajo Indian Reservation, New Mexico
 Company El Paso Natural Gas Products Co., Address Navajo Indian Reservation, New Mexico

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

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

OIL OR GAS SANDS OR ZONES

(Devote das 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

sand. Flush 1284 gals. oil. Injection rate 1.54-0 gals./min. Maximum
 No. 2, from 1000 psi.; Breakdown pressure 1200 psi.; Average
 No. 1, from 800 psi. Injected 43 barrel balls halfway through
 treatment, 100 psi. Increase in transient water sands

[illegible]

HISTORY OF OIL OR GAS WELL

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
1 1/2"	12-1	20	Plastic stage		
2 1/2"	1-1	10	Plastic stage		

PLUGS AND ADAPTERS

Adapters—Material	Size
Heaving plug—Material	Length
	Depth sec

SHOOTING RECORD

Slne	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

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

DATE

Rock pressure, lbs. per sq. in.	
If gas well, cu. ft. per 24 hours	
emulsion; % water; and % sediment.	
The production for the first 24 hours was	
barsels of fluid of which % was oil;	
Put to producing	
Gallons gasoline per 1,000 cu. ft. of gas	
Gravity, °Be.	

EMPLOYEES

Driller	_____	_____	_____
Driller	_____	_____	_____

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	800	160	various forms of sandstone, shale.
800	1050	170	upper sandy limestone, shale, gy. ss., calc. w/stratigic inclination.
1050	1200	150	lower sandy limestone, sh. gy. to drk. calc. carb. numerous graptolitic, very fm. to med. sz. ss. w/fines, interbedded shale.
TOPS ARE FROM EVIDENCE OF AND STRATIGRAPHIC CORRELATION			
FROM-	TO-	TOTAL FEET	FORMATION