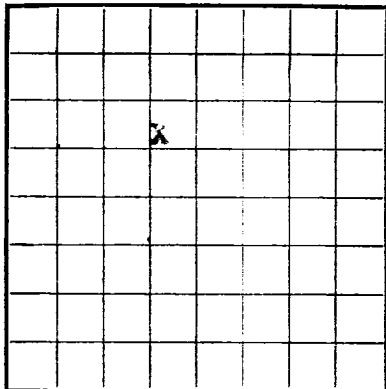


U. S. LAND OFFICE Navajo Tribal
SERIAL NUMBER 14-20-605-735
LEASE OR PERMIT TO PROSPECT _____UNITED STATES **RECEIVED**
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
JUL 27 1959
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO**LOG OF OIL OR GAS WELL**

LOCATE WELL CORRECTLY

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. 6 Sec. 5 T. 30N R. 16W Meridian NMPM County San Juan
Location 1980 ft. N. of N Line and 1930 ft. E. of W Line of Section 5 Elevation 5337'
(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: JOSEPH E. KREGER
Date July 24, 1959 Title Petroleum Engineer

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

Commenced drilling June 12, 1959 Finished drilling June 15, 1959**OIL OR GAS SANDS OR ZONES**

(Denote gas by G)

No. 1, from 1054' to 1084' No. 4, from _____ to _____
No. 2, from 1096' to 1121' No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____
IMPORTANT WATER SANDS
No. 1, from 1121' to 1130' 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"	28.00	8.00	AMCO	1150	1150	1150	1150	1150	1150
5-1/2"	19.00	8.00	AMCO	1150	1150	1150	1150	1150	1150
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7-5/8"	126'	100	Circulated		
5-1/2"	1200'	50	Single Stage		

PLUGS AND ADAPTERSHeaving 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 USEDRotary tools were used from 0 feet to 1201 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet**DATES**Put to producing July 13, 1959
The production for the first 24 hours was 95 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé 39.3
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	330	330	Mancoos Form. gy. carb. shale.
330	1136	356	Gallup Form. Lt. gy. to brn. calc. carb. micaceous glauconitic. Vern fn. to med. gr. ss. w/irreg. interbedded shale.
1136	1201	15	Sanastee Form. dk. gy. calc. v/fn. to fn. gy. ss. w/calc. veins, w/irreg. intd. dk. gy. sd.
TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.			
FROM—	TO—	TOTAL FEET	FORMATION

LEASE OR PERMIT TO PROSPECT _____
 SERIAL NUMBER 1-20-55-712 _____
 U. S. LAND OFFICE _____
 Nevada, District _____

021600Z

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

YOUNG JAMES H. HARRIS
CLARK, N. C. 1904

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

[illegible]

Date July 1st, 1900
 Title Resident 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: JOSEPH E. KEEFER
 Location 1900 ft. S. of N. Line and 1900 ft. E. of W. Line of Section 2 of 1/4 Line of Section 2 Elevation 2000
 Well No. 2 Sec. 2 T. 30N R. 10W Meridian N45W County San Juan Lessor or Tract Horseshoe Navajo Company El Paso Natural Gas Products Co.
 Address Box 1865, 1st National, New Mexico

Commenced drilling _____ June 13 1937 _____ Finished drilling _____ June 15 1937 _____

(Denote gas by G)

OIL OR GAS SANDS OR ZONES

No. 1 from 1074' to 1084' No. 4 from 1084' to 1094'

No. 2 from 1096' to 1106' No. 5 from 1106' to 1116'

No. 3 from 1116' to 1126' No. 6 from 1126' to 1136'

Average treating pressure 900 psi. Injected 27 rubber balls twice.

(cored 54 balls), 300 psi. & 200 psi. increase.

Maximum treating pressure 1500 psi. Breakdown pressure 1500 psi.

70,000 gals. Flush with 1220 gals. oil. Injection Rate 50.0 bbls./min.

SOF perf. intervals 1054'-1084'; 1096'-1126'. with 50,000 gals. oil and

to No. 4 from 1084' to 1094'

to No. 5 from 1106' to 1116'

to No. 6 from 1126' to 1136'

ENCLOSURE

Casing Size per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and drilled from	Performed		Purpose
							From —	To —	
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-casing, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and to any casing was added, or let in the well, give date, size, position, and number of joints or bridges were put in to test for water, state kind of material used, position, and results of pumping or burning.									
HISTORY OF OIL OR GAS WELL 10-70064-5 B. OAKMAN RAILROAD									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
3 1/2"	150'	100	circulated		
4 1/2"	1500'	60	run in place		

PLUGS AND ADAPTERS

Adapters—Metallic	Length	Depth cut

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
				Dec 11 1907		

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	
..... barrels of fluid of which % was oil; %	
Put to producing	

EMPLOYEES

Driver, _____	Driver, _____
Driver, _____	Driver, _____

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	830	830	Lower Form. 75' carb. shale.
830	1180	350	Upper Form. 35' to 40'. calc. carb. shale. V. sh. to med. sh. Rt. ss. w/irreg. interbedded shale.
1180	1201	21	Lower Form. 21' calc. w/sh. to th. sh. ss. w/calc. veins, w/irreg. bed. dk. sh. sd.
			TOPS ARE FROM ELECTRIC LOG AND RADIOACTIVITY LOGS
FROM-	TO-	TOTAL FEET	FORMATION