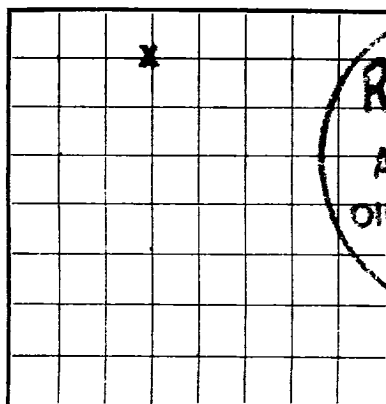


U. S. LAND OFFICE Navajo-Ute TribalSERIAL NUMBER 14-20-604-1951

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
APR 25 1960U. S. GEOLOGICAL SURVEY
DENVER, COLO.

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Products Co. Address Box 1565, Farmington, New Mexico
Lessor or Tract Horseshoe Ute Field Horseshoe Gallup State New Mexico
Well No. 41 Sec 27 T. 31N R. 16W Meridian NM2M County San Juan
Location 660 ft. S. of N. Line and 1980 ft. E. of W. Line of Section 27 Elevation 5574
(Derrick base 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 K. GLA. ELLDate April 22, 1960Title Petroleum Engineer

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

Commenced drilling March 17, 1960 Finished drilling March 22, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from 1492 to 1515 No. 4, from 1515 to 1530
No. 2, from 1515 to 1530 No. 5, from 1530 to 1545
No. 3, from 1545 to 1560 No. 6, from 1560 to 1575

IMPORTANT WATER SANDS

No. 1, from 1515 to 1530 No. 3, from 1530 to 1545
No. 2, from 1530 to 1545 No. 4, from 1545 to 1560

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"	112	125							
5-1/2"	1583	100							
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
9-5/8"	112	125	Circulated		
5-1/2"	1583	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 Remarks			

TOOLS USED

Rotary tools were used from 0 feet to 1586 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing March 25, 1960 April 9, 1960
The production for the first 24 hours was 24 barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 100
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas 40.8 API
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Point Lookout Form: Gy., v/fa. silty ss. w/freq. shale breaks.
210	1272	1062	Mancos Form: Gy. carb. shale.
1272	1586	314	Gallup Form: Lt. gy. to brn. calc. carb. mica. glauconitic. Very fa. to med. gr. ss. w/irreg. lbed. shale.
TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.			

(OVER)

FORMATION RECORD—Continued

16-49004-4

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

so far as can be determined from all available records.

Signed _____

Witnessed by: _____

The information given herewith is a complete and correct record of the well and all work done thereon

Location of _____ ft. _____ of _____ line and _____ E. _____ of _____ line of _____

Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____ County _____ State _____

Lesser or Tract _____

Company _____

Address _____

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

Date April 12, 1960 Title Water level

Commenced drilling	Finished drilling	19
1907	1907	1907

No. 3. from _____ to _____
No. 2. from _____ to _____
No. 1. from _____ to _____
sand: grey with blue grey. oil: injection water. 55.7 sp. gr.: maximum
creaking pressure 1500 psi.: breakdown pressure 1150 psi.: Average
creaking pressure 1250 psi.: tested 17 wells one time for 5000 psi.
oil or gas sands or zones.

No. 1 from		No. 2 from	
15-17-60	1506-1523	15-17-60	1506-1523
14-21-60	1495-1506	14-21-60	1495-1506

CASING RECORD

Size casing per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and bolted from	Perforated From - To -	Purpose
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of recording, the reasons for the work and its results. If there were any changes made in the casing, state fully, and the reasons for the changes. The record should be in the following form: Date, size, position, and results of pumping or bailing or shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing or shots. The record should be in the following form: Date, size, position, and results of pumping or bailing or shots. The record should be in the following form: Date, size, position, and results of pumping or bailing or shots.

HISTORY OF OIL OR GAS WELL

MIDDING AND CEMENTING RECORD

NUDDING AND CEMENTING RECORD

Casing Size	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7 1/8"	III	IV	Hand tamped		
IV	IIII	III	" "		

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

[illegible]

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

	Diller
	Diller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Point Ledge Formation (q.v. with slip ss. with white breccia).
210	1373	1063	Wenona Formation (q.v. carb. shale).
1373	1889	516	Galena Formation (q.v. to Point Ledge carb. shale disconformity. Very sh. to med. gr. ss. with lentic. shale).
			AND RELATIVE POSITIONS OF THESE FORMATIONS
FROM—	TO—	TOTAL FEET	FORMATION