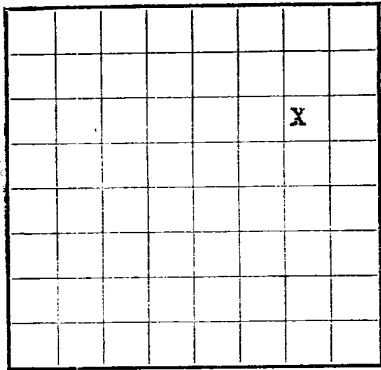


Form 9-830



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078497
LEASE OR PERMIT TO PROSPECT 14-08-001-459

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-7 Unit Field Blanco State New Mexico
Well No. 46 Sec. 16 T. 28N R. 7W Meridian NMPM County Rio Arriba
Location 1700 ft. S. of N. Line and 1150 ft. W. of E. Line of Section 16 Elevation 6249'
(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 School Schulerman

Date June 11, 1956 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.
Commenced drilling April 9, 1956 Finished drilling April 21, 1956

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2917 to 2980 (G) No. 4, from 5081 to 5275 (G)
No. 2, from 4562 to 4714 (G) No. 5, from _____ to _____
No. 3, from 4714 to 5081 (G) 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—	
10-3/4"	32.75	P.E.	S.W.	161'	Howco				Surface
7-5/8"	26.4	8 RD	3-55	3065'	Howco				Intermediate
5-1/2"	19.40	8 RD	3-55	5081'	Howco				Production
2"	4.77	8 RD	3-55	918'	Howco				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	170'	150	Circulated		
7-5/8"	3065'	250	Single Stage		
5-1/2"	5275'	300	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 0 feet to 3065 feet, and from 3065 feet to 5275 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

April 27, 1956 Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours 7,214,000 A.O.F. 3 hr. test 4554 MCF/D thru 3/4" Choke. Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 1073

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2039	2039	Tan to gry cr-grn ss interbedded w/gry sh.
2039	2197	158	Ojo Alamo ss. White cr-grn s.
2197	2610	413	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2610	2917	307	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2917	2980	63	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2980	4562	1582	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4562	4714	152	Cliff House ss. Gry, fine-grn, dense sh ss.
4714	5081	367	Menefee form. Gry, fine-grn s, carb sh & coal.
5081	5275	194	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.

U.S. LAND OFFICE
SERIAL NUMBER
BASED ON PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FILED IN OFFICE OF THE ATTORNEY GENERAL

V079860

The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.

Date of completion and drilling of well _____
Name of _____
Address _____
City _____ State _____

[illegible]

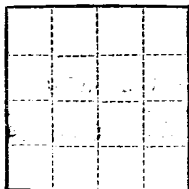
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked", or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If pipes 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

18-43084-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

FORMATION RECORD—Continued



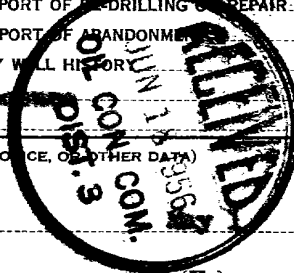
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLand Office Santa Fe
Lease No. 070497
Unit San Juan 21-7 Unit
14-01-001-499

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)



Well No. 46 is located 1700 ft. from N line and 1130 ft. from E line of sec. 16
16 Section 16 23 7 14-01-001-499
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Blanco San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6249 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

4-24-56 Cement depth 5140'.Water fractured lower Point Lookout perforated intervals 5132-5146, 5192-5208 with 54,072 gallons water and 55,000¢ sand. Breakdown pressure 2100¢, maximum pressure 2100¢, average treating pressure 1900¢. Injection rate 49.4 bbls./min. Flush 7000 gallons. Natural gas none.4-24-56 Plug back depth 5115'.Water fractured upper Point Lookout perforated intervals 5078-5092 with 6 shots per foot, with 52,800 gallons water and 55,000¢ sand. Breakdown pressure 2400¢, maximum pressure 2400¢, average treating pressure 1950¢. Injection rate 46.7 bbls./min. Flush 6000 gallons. Natural gas none.

(Over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas CompanyAddress Box 757Paria, Tenn., New MexicoBy W. L. WalcottTitle Petroleum Engineer