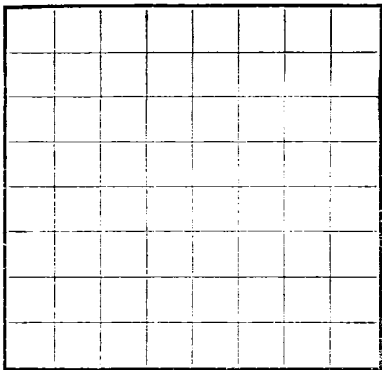


U. S. LAND OFFICE _____
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____
4-6-61-24

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company _____ Address _____
Lessor or Tract _____ Field _____ State _____
Well No. _____ Sec. 23 T. 2 R. _____ Meridian _____ County _____
Location _____ ft. [N.] of _____ Line and _____ ft. [E.] of _____ Line of _____ Elevation _____
(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 _____ Title _____
Date _____

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

(Denote gas 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 _____

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—	
2 1/2	25.5	3	3-55	1150	3-55				drilling
2 1/2	25.5	3	3-55	1150	3-55				drilling
2 1/2	25.5	3	3-55	1150	3-55				drilling
2 1/2	25.5	3	3-55	1150	3-55				drilling

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	grout		
2 1/2	10'	1	grout		
2 1/2	10'	1	grout		

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

DATES

_____, 19____ 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 _____ 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	10	10	dark gray argillaceous interbedded w/ r. sh.
10	20	20	light gray ss. w/ argillaceous
20	30	30	light gray ss. w/ argillaceous w/ thin
30	40	40	gray fine-gr. ss.
40	50	50	fractured light gray calc. sh. scattered
50	60	60	calc. and arg. light, fine-gr. ss.
60	70	70	fractured light gray, fine-gr. arg. light,
70	80	80	carbonated ss. sh.
80	90	90	lewis formation. dry to white sand sh.
90	100	100	w/ sandy to sandy ss. breccia.
100	110	110	cliff House sh. sh., fine-gr. dense ss. sh.
110	120	120	benneville form. arg. fine-gr. ss., carb. ss. & coal.
120	130	130	light brown sh. sh., very fine sh. ss
130	140	140	w/ frequent sh. breccia.
140	150	150	benneville formation. arg. sh. sh.

[illegible]

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079519-A
LEASE OR PERMIT TO PROSPECT _____
14-08-001-949

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-5 Unit Field Blanco State New Mexico
Well No. 14 Sec. 20 T. 28N R. 5W Meridian NMPM County Rio Arriba
Location 1650 ft. N of E Line and 990 ft. W of E Line of Section 20 Elevation 6739

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.

Date August 31, 1956 Signed *F. W. Boyd*
Title Petroleum Engineer

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

Commenced drilling 7-20-56, 1956 Finished drilling 8-3-56, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3600 to 3691 (G) No. 4, from 5762 to 5900 (G)
 No. 2, from 5372 to 5460 (G) No. 5, from _____ to _____
 No. 3, from 5460 to 5762 (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	Depth	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
10 3/4"	32.75	P.E.	S.W.	160'	Howco				Surface
7 7/8"	27	P.E.	S.W.	160'	Howco				Intermediate
5 1/2"	17	P.E.	S.W.	160'	Howco				Production
2"	4.7	P.E.	S.W.	160'	Howco				Prod. log.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	175'	115	Circulated		
7 5/8	3710'	250	Single Stage		
5 1/2	5976'	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

TOOLS USED

Rotary tools were used from 0 feet to 3710 feet, and from 3710 feet to 5976 feet ^{Gas Drilled}

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

DATES

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 1,200,000 Gallons gas per 1,000 cu. ft. of gas 6.76

Rock pressure, lbs. per sq. in. ----- 1631 -----

EMPLOYEES

_____, Driller

_____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	2880	2880	tan to gry cr-grn ss interbedded w/gry sh.
2880	3028	148	Ojo Alamo ss. White cr-grn s.
3028	3314	286	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3314	3600	286	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3600	3691	91	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3691	5372	1681	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5372	5460	88	Cliff House ss. Gry, fine-grn, dense sil ss.
5460	5762	302	Menefee form. Gry, fine-grn s, carb sh & coal.
5762	5900	138	Ppoint Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5900	5976	76	Mancos formation. Gry carb sh.

FORMATION RECORD—Continued

