

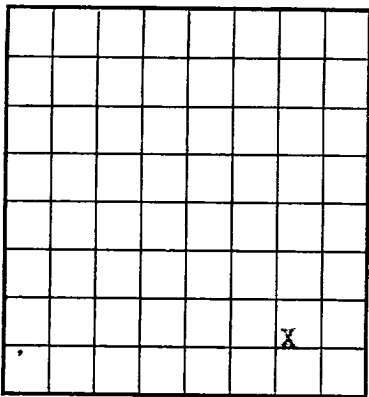
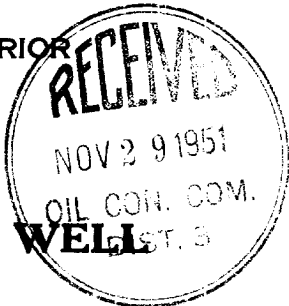
Form 9-380

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 077383

LEASE OR PERMIT TO PROSPECT Kutz Deep Test

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Co. Address P.O. Box 997, Farmington, New Mexico
Lessor or Tract Kutz Deep Test Field Pulcher-Kutz State New Mexico
Well No. 2 Sec. 20 T. 20N R. 1E Meridian N.M. County San Juan
Location 990 ft. N. of 3 Line and 990 ft. E. of 1 Line of 20 Sec. 20 Elevation 6335
(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 E. J. COEL

Date November 20, 1951 Title Petroleum Engineer

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

Commenced drilling October 10, 1951 Finished drilling October 30, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1977 to 2055 (G) 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 535 to 595 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—	
<u>8-5/8</u>	<u>24</u>	<u>8</u>	<u>Natl</u>	<u>119</u>	<u>HOWO</u>				<u>Surface Production</u>
<u>5-9/16</u>	<u>14.6</u>	<u>8</u>	<u>Natl</u>	<u>1977</u>	<u>HOWO</u>				
<u>1</u>	<u>STD</u> <u>BLK</u>	<u>8</u>	<u>Natl</u>	<u>2050</u>	<u>HOWO</u>				<u>Siphon</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>120</u>	<u>50</u>	<u>Circulated</u>		
<u>5-9/16</u>	<u>1983</u>	<u>150</u>	<u>Single Stage</u>		

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
<u>2 1/2</u>	<u>Reg.</u>	<u>ENG</u>	<u>220</u>	<u>11-3-51</u>	<u>1995-2083</u>	<u>2083</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 120 feet to 2083 feet, and from _____ feet to _____ feet
0 DATES 120

_____, 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. _____

It gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2,820,000

EMPLOYEES

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

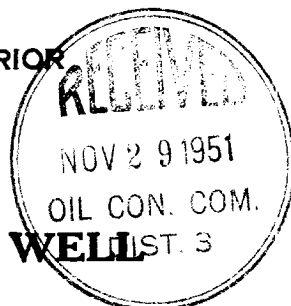
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	520	520	Varieg. shale, etc.
520	1000	480	Tan to grey ss.
1000	1075	75	Ojo Alamosa Top Ojo - 1000.
1075	1735	660	Kirtland form. Top Kirtland - 1075.
1735	1977	242	Fruitland form. Top Fruitland - 1735.
1977	2055	78	Pictured Cliffs . Top P.C. - 1977.
2055	2086	31	Upper Lewis. Top Lewis - 2055.
			Same as Kutz Canyon C & C No. 1.

(OVER)

U. S. LAND OFFICE ----- **Santa Fe**
SERIAL NUMBER ----- **077383**
LEASE OR PERMIT TO PROSPECT ----- **Ruta** **Doc**
Trail

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company ----- El Paso Natural Gas Co. Address ----- P.O. Box 997, Farmington, New Mexico
Lessor or Tract ----- 14th Sec. 28 Field ----- Pulcher-Kuts State ----- New Mexico
Well No. ----- 2 Sec. ----- 28 T. ----- 28 R. ----- 10 Meridian ----- N 14 County ----- San Juan
Location ----- 20 ft. { N. } of ----- Line and ----- ft. { E. } of ----- Line of ----- Sec. 28 Elevation ----- 6500
(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 _____

Date NOVEMBER 20, 1951 Title Petroleum Engineer

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

Commenced drilling ----- October 10, 1951 Finished drilling ----- October 10, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1977 to 2005 (G) 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 505 to 595 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—	
6-5/8	24	8	Natl	109	HOWCO				Surface
5-7/16	18.5	8	Natl	1577	HOWCO				Production
1	STD BLK	8	Natl	2052	HOWCO				Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	120	50	Circulated		
5-9/16	1983	150	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
2ts.	Reg.	SEC	220	11-3-51	1995-2083	2083

TOOLS USED

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

Cable tools were used from 120 feet to 2083 feet, and from _____ feet to _____ feet.

0 **DATES** 120
 _____, 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. _____

Gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2,820,000

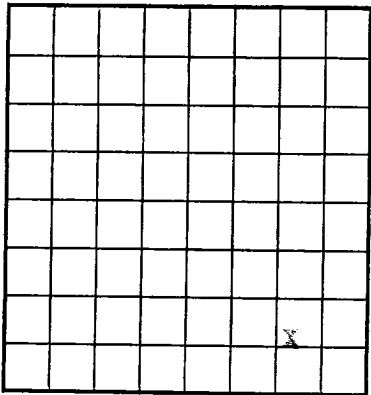
EMPLOYEES

_____, Driller _____, Driller

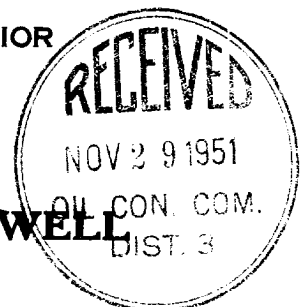
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	520	520	Varieg. shale, etc.
520	1000	480	Tan to grey ss.
1000	1075	75	Ojo Alamos Top Ojo - 1000.
1075	1735	660	Kirtland form. Top Kirtland - 1075.
1735	1977	242	Fruitland form. Top Fruitland - 1735.
1977	2055	78	Pictured Cliffs . Top P.C. - 1977.
2055	2096	31	Upper Lewis. Top Lewis - 2055.
			Same as Kutz Canyon C & G No. 1.



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 077303
LEASE OR PERMIT TO PROSPECT Rutz 1
AUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Co. Address P.O. Box 997, Farmington, New Mexico
Lessor or Tract Rutz Deep test Field Fulcher-Rutz State New Mexico
Well No. 1 Sec. 8 T. 10N R. 10W Meridian 10N County Santa Fe
Location 300 ft. N. of 6 Line and 300 ft. E. of W. Line of 300 Elevation 5000
(Derivat 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 E. J. COELDate November 27, 1951 Title Petroleum Engineer

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

Commenced drilling October 10, 1951 Finished drilling October 30, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1977 to 2055 (G) 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 505 to 595 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—	
<u>8-5/8</u>	<u>24</u>	<u>5</u>	<u>Met</u>	<u>139</u>	<u>HWY</u>	<u> </u>	<u> </u>	<u> </u>	<u>Surface</u>
<u>5-7/8</u>	<u>18.6</u>	<u>5</u>	<u>Met</u>	<u>1977</u>	<u>HWY</u>	<u> </u>	<u> </u>	<u> </u>	<u>Production</u>
<u>1</u>	<u>10.2</u>	<u>3</u>	<u>Met</u>	<u>2055</u>	<u>HWY</u>	<u> </u>	<u> </u>	<u> </u>	<u>Siphon</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>120</u>	<u>60</u>	<u>Circulated</u>	<u> </u>	<u> </u>
<u>5-7/8</u>	<u>1903</u>	<u>150</u>	<u>Slurp Stage</u>	<u> </u>	<u> </u>

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
<u>2 1/2</u>	<u>Reg.</u>	<u>ENG</u>	<u>220</u>	<u>11-3-51</u>	<u>1995-2083</u>	<u>2083</u>

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feetCable tools were used from 120 feet to 2083 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. 2,820,000

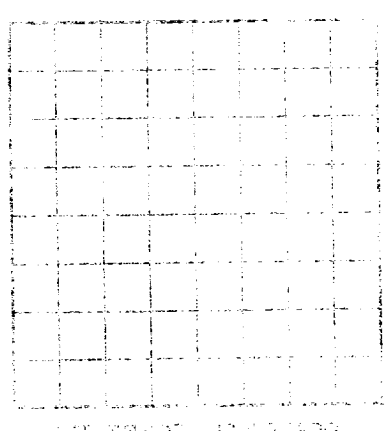
EMPLOYEES

 , Driller , Driller , Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>520</u>	<u>520</u>	<u>Varieg. shale, etc.</u>
<u>520</u>	<u>1000</u>	<u>480</u>	<u>Tan to gray ss.</u>
<u>1000</u>	<u>1075</u>	<u>75</u>	<u>Ojo Alamo Top Ojo - 1000.</u>
<u>1075</u>	<u>1735</u>	<u>660</u>	<u>Hirtland form. Top Hirtland - 1075.</u>
<u>1735</u>	<u>1977</u>	<u>242</u>	<u>Fruitland form. Top Fruitland - 1735.</u>
<u>1977</u>	<u>2055</u>	<u>78</u>	<u>Pictured Cliffs Top P.C. - 1977.</u>
<u>2055</u>	<u>2083</u>	<u>31</u>	<u>Upper Lewis Top Lewis - 2055.</u>
<u> </u>	<u> </u>	<u> </u>	<u>Same as Rutz Canyon O & C No. 1.</u>

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



HISTORY OF OIL OR GAS WELL

1. Name of well _____

2. Location _____

3. Date of completion _____

4. Name of owner _____

5. Name of operator _____

6. Name of driller _____

7. Name of contractor _____

8. Name of engineer _____

9. Name of geologist _____

10. Name of chemist _____

11. Name of physicist _____

12. Name of biologist _____

13. Name of psychologist _____

14. Name of sociologist _____

15. Name of anthropologist _____

16. Name of linguist _____

17. Name of historian _____

18. Name of philosopher _____

19. Name of mathematician _____

20. Name of astronomer _____

21. Name of meteorologist _____

22. Name of climatologist _____

23. Name of oceanographer _____

24. Name of geophysicist _____

25. Name of geotechnical engineer _____

26. Name of environmental engineer _____

27. Name of chemical engineer _____

28. Name of mechanical engineer _____

29. Name of electrical engineer _____

30. Name of civil engineer _____

31. Name of industrial engineer _____

32. Name of agricultural engineer _____

33. Name of marine engineer _____

34. Name of aerospace engineer _____

35. Name of biomedical engineer _____

36. Name of computer engineer _____

37. Name of software engineer _____

38. Name of systems engineer _____

39. Name of quality engineer _____

40. Name of project engineer _____

41. Name of product engineer _____

42. Name of design engineer _____

43. Name of manufacturing engineer _____

44. Name of maintenance engineer _____

45. Name of safety engineer _____

46. Name of health engineer _____

47. Name of environmental engineer _____

48. Name of occupational engineer _____

49. Name of fire engineer _____

50. Name of nuclear engineer _____

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 plugs 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			
16-43094-1 U. S. GOVERNMENT PRINTING OFFICE			
FROM-	TO-	TOTAL FEET	FORMATION