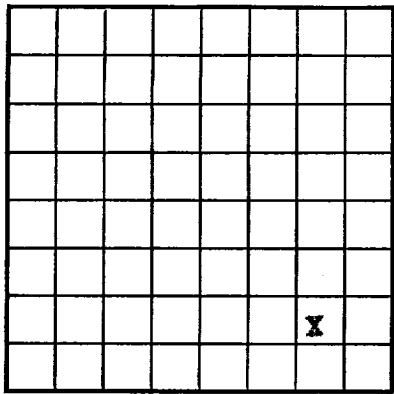


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 67039-8
LEASE OR PERMIT TO PROSPECT Katz



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address P.O. Box 997, Farmington, New Mexico
Lessor or Tract Katz Canyon O. & G. Field Fulcher-Katz State New Mexico
Well No. 1 Sec. 17 T. 28N R. 10W Meridian NMP County Santa Juan
Location 990 ft. ^(N.) of S. Line and 990 ^(W.) of E. Line of Sec. 17 Elevation 5957
(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 29, 1951 Title Petroleum Engineer

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

Commenced drilling October 7, 1951 Finished drilling October 18, 1951

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

No. 1, from 2002 to 2050 (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 962 to 1035 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>21.63</u>	<u>8</u>	<u>Natl</u>	<u>2002</u>	<u>BLMCO</u>				<u>Surface</u>
<u>3-9/16</u>	<u>1.68</u>	<u>8</u>	<u>Natl</u>	<u>2002</u>	<u>BLMCO</u>				<u>Perforation</u>
<u>1</u>	<u>1.68</u>	<u>8</u>	<u>Natl</u>	<u>2002</u>	<u>BLMCO</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>98</u>	<u>60</u>	<u>Circulated</u>		
<u>3-9/16</u>	<u>2002</u>	<u>140</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>Qts.</u>	<u>Reg.</u>	<u>SWG</u>	<u>220</u>	<u>10-27-51</u>	<u>2018-2108</u>	<u>2108</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 98 feet to 2108 feet, and from 0 feet to 98 feet

DATES

November 2, 1951 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 620,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 568

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>427</u>	<u>427</u>	<u>Variog. shale w/thin ss breaks.</u>
<u>427</u>	<u>962</u>	<u>535</u>	<u>Thin to gray coarse gr. ss interbedded w/gray sh.</u>
<u>962</u>	<u>1035</u>	<u>73</u>	<u>Ojo Alamo ss white coarse gr. water sand. Top</u>
<u>1035</u>	<u>1735</u>	<u>700</u>	<u>Ojo - 962.</u>
<u>1735</u>	<u>2002</u>	<u>267</u>	<u>Kirtland form. gray shale interbedded w/light</u>
<u>2002</u>	<u>2070</u>	<u>68</u>	<u>gray fine gr. ss. Top Kirtland - 1035</u>
<u>2070</u>	<u>2108</u>	<u>38</u>	<u>Fruitland form. gray carb shales scattered</u>
			<u>coals & gray tight fine gr. ss. Top Fruitland</u>
			<u>1735.</u>
			<u>Pictured Cliffs ss gray, med., varicol., soft</u>
			<u>S & F, poorly consol. ss. Top P.C. 2002.</u>
			<u>Upper Lewis form. gray shale.</u>

LOG OF OIL OR GAS WELL

[illegible]

LOCATE WELL CORRECTLY

_____ Date _____
_____ Title _____

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

_____ October 2, 1945 _____
_____ Completed drilling _____
_____ October 10 _____

ALL OR GAS SANDS OR ZONES

(Transmit per page)

No. 1, from	to	No. 7, from	to
No. 2, from	to	No. 8, from	to
No. 3, from	to	No. 9, from	to
IMPORTANT WATER SANDS			
No. 1, from	to	No. 6, from	to
No. 2, from	to	No. 4, from	to

CROSS REFERENCE

[illegible]

MULDING AND CEMENTING RECORD

No.	Name	Number copies of contract	Dated or made	Paid by treaty	American or foreign?
9067	Bullington	1	Dec 8 1894	\$100	Foreign

STILLS AND ADAPTERS

SOUNDING RECORD Size _____ Length _____ Depth seal _____	Airplane - 27 lateral Hearing pipe - 27 lateral
---	--

ENDING RECORD

Size	Material	Estimated cost	Quantity	Date	Depth shot	Depth obtained
100	100	100	100	10-11-10	100	100

CHEV BLOT

test	lost, and from	test	lost, and from
test	lost, and from	test	lost, and from

NETAG

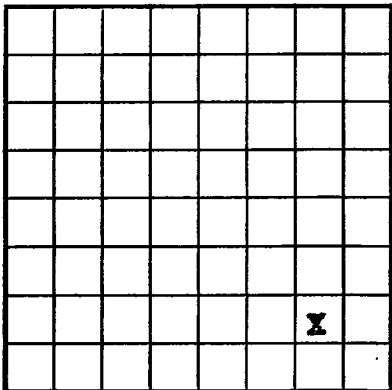
Boil pressure, lbs. per sq. in. _____
Flow well, cu. ft. per 24 hours _____
_____ water; and _____
The production for the first 24 hours was _____
November 2, 1911 _____
But in producing _____, 1911 _____
_____ barrels of kind of which _____ was 50 _____
Gravity, 50.6 _____
Residual residue per 1,000 cu. ft. of gas _____

INFORMATION RECORD

FORMATION	TOTAL FEET	TO	FROM
Lower ls. form. gray shale.	4	210	206
U.S.P. corals corall. ss. (up to 1000).		207	203
Interbedded ls. ss. gray, med., varicol.	4		
103.			
ss. & gray silt. fine gr. ss. (top 1000)	5	202	197
Brachiopod form. gray ss. shale scattered	5		
gray fine gr. ss. (top 1000 - 1032)		198	193
104. - 92.	70		
ls. - 92.		197	192
ls. also ss. white coarse gr. water sand.	7		
ls. to gray coarse gr. ss. interbedded w/gray	22		
105. shale w/ thin ss. breccia.	27	197	170

FORMATION RECORD—Continued

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 64782-3
LEASE OR PERMIT TO PROSPECT State



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address P.O. Box 997, Farmington, New Mexico
Lessor or Tract Kata Canyon O. & G. Field Fulcher-Kata State New Mexico
Well No. 1 Sec. 17 T. 23N R. 10W Meridian NMPM County Santa Juan
Location 990 ft. (N.) of 8 Line and 990 ft. (W.) of 2 Line of Sec. 17 Elevation 9957
(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 7, 1951 Finished drilling October 18, 1951

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

No. 1, from 2002 to 2050 (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 962 to 1035 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>21.4</u>	<u>8</u>	<u>Metz</u>	<u>200</u>	<u>Metz</u>	<u>2002</u>			<u>Surface</u>
<u>5-7/8</u>	<u>16.3</u>	<u>8</u>	<u>Metz</u>	<u>200</u>	<u>Metz</u>	<u>2050</u>			<u>2050</u>
<u>1</u>	<u>1.63</u>	<u>8</u>	<u>Metz</u>	<u>200</u>	<u>Metz</u>	<u>2108</u>			<u>2108</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>96</u>	<u>60</u>	<u>Circulated</u>		
<u>5-7/8</u>	<u>2002</u>	<u>140</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>Qts.</u>	<u>Reg.</u>	<u>SNG</u>	<u>220</u>	<u>10-27-51</u>	<u>2015-2108</u>	<u>2108</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 96 feet to 2108 feet, and from 0 feet to 96 feet

DATES

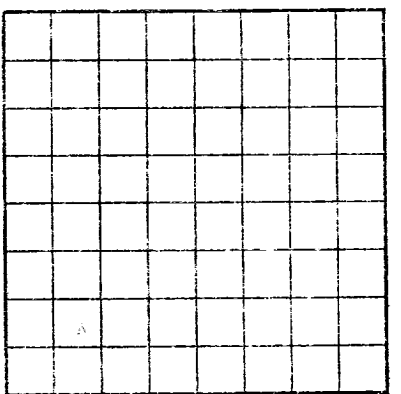
_____ 19____ Put to producing _____ 19____
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 620,000

EMPLOYEES

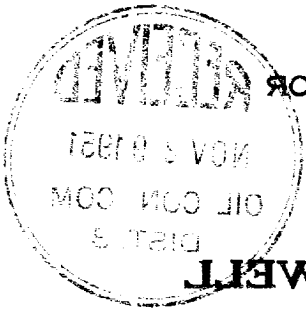
_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>427</u>	<u>427</u>	<u>Variag. shale w/thin ss breaks.</u>
<u>427</u>	<u>962</u>	<u>535</u>	<u>Thin to gray coarse gr. ss interbedded w/gray sh.</u>
<u>962</u>	<u>1035</u>	<u>73</u>	<u>Ojo Alamo ss white coarse gr. water sand. Top</u>
<u>1035</u>	<u>1735</u>	<u>700</u>	<u>Ojo - 962.</u>
<u>1735</u>	<u>2002</u>	<u>267</u>	<u>Kirtland form. gray shale interbedded w/light</u>
<u>2002</u>	<u>2070</u>	<u>68</u>	<u>gray fine gr. ss. Top Kirtland - 1035</u>
<u>2070</u>	<u>2108</u>	<u>38</u>	<u>Fruitland form. gray carb shales scattered</u>
			<u>coals & gray tight fine gr. ss. Top Fruitland</u>
			<u>1735.</u>
			<u>Pictured Cliffs ss gray, med., varicol., soft</u>
			<u>S & P, poorly consol. ss. Top P.C. 2002.</u>
			<u>Upper Lewis form. gray shale.</u>



U. S. LAND OFFICE
SERIAL NUMBER
PLEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company _____
Lessor or Tract _____
Well No. _____
Location _____ of _____
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.
ON FINAL SIGNED E. J. COLE

Date _____
The summary on this page is for the condition of the well at above date
Commenced drilling _____
Finished drilling _____

OIL OR GAS SANDS OR ZONES

(Denote gas in G)
No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____
No. 4 from _____ to _____
No. 5 from _____ to _____
No. 6 from _____ to _____
No. 7 from _____ to _____
No. 8 from _____ to _____
No. 9 from _____ to _____
No. 10 from _____ to _____

CASING RECORD

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 attached or left in the well, give size and location. If pumps or bridges were put in for water, state kind of material used, position, and results of pumping. If pumps or bridges were put in for water, state kind of material used, position, and results of pumping.

HISTORY OF OIL OR GAS WELL

16-43094-1 U. S. GOVERNMENT PRINTING OFFICE
MUDGING AND CEMENTING RECORD
Amount of mud used
Mud gravity
Method used
Mud used
Mud gravity
Amount of mud used

PLUGS AND ADAPTERS

Plugs—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size _____
Shell used _____
Explosive used _____
Quantity used _____
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.

DATA

Test to producing _____ feet to _____ feet.
The production for the first 24 hours was _____ barrels of oil and _____ barrels of water and _____ barrels of gas.
1000 psi pressure, per barrel, in _____ barrels of gas.
1000 psi pressure, per barrel, in _____ barrels of gas.

EMPLOYEES

Differ _____
Differ _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Gravelly sand, yellowish, fine, with some pebbles.
10	20	20	Gravelly sand, yellowish, fine, with some pebbles.
20	30	30	Gravelly sand, yellowish, fine, with some pebbles.
30	40	40	Gravelly sand, yellowish, fine, with some pebbles.
40	50	50	Gravelly sand, yellowish, fine, with some pebbles.
50	60	60	Gravelly sand, yellowish, fine, with some pebbles.
60	70	70	Gravelly sand, yellowish, fine, with some pebbles.
70	80	80	Gravelly sand, yellowish, fine, with some pebbles.
80	90	90	Gravelly sand, yellowish, fine, with some pebbles.
90	100	100	Gravelly sand, yellowish, fine, with some pebbles.