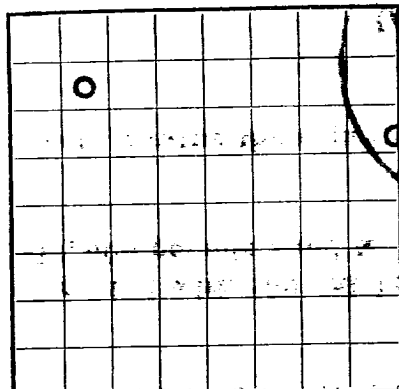


Sante Fe
U. S. LAND OFFICE
SERIAL NUMBER NM 03995 & SF 0794540A
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company San Juan Gas Corporation Address 300 Shell Building, Tulsa, Oklahoma
Lessor or Tract _____ Field Cavilan State New Mexico
Well No. 6-J Sec. 6 T. 24N R. 1W Meridian New Mexico County Rio Arriba
Location 1015 ft. N of N Line and 910 ft. E of W Line of Section 6 Elevation X 7377
(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 Robert C. Sawyer
Date February 19, Title Vice-President

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

Commenced drilling November 15, 1956 Finished drilling November 21, 1956

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

No. 1, from (G) 3433 to 3482 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 267 to 340 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>CFI</u>	<u>78</u>	<u>Halliburton</u>				<u>Surface</u>
<u>5 1/2</u>	<u>14</u>	<u>8</u>	<u>CFI</u>	<u>3423</u>	<u>Halliburton</u>				<u>Prod. String</u>
<u>4 1/2</u>	<u>16.6</u>	<u>8</u>	<u>KEK</u>	<u>86</u>	<u>Tex-Calk</u>				<u>Finer</u>
			<u>used</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>78</u>	<u>50</u>	<u>Halliburton</u>		
<u>5 1/2</u>	<u>3423</u>	<u>150</u>	<u>Halliburton</u>		
<u>4 1/2</u>	<u>3478</u>	<u>20</u>	<u>Halliburton</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

TOOLS USED

Rotary tools were used from 0 feet to 3455 feet, and from _____ feet to _____ feet
Cable tools were used from 3455 feet to 3482 feet, and from _____ feet to _____ feet

DATES

January 1, 1957 Put to producing Shut in, 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 871 mcf Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 750

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>585</u>	<u>585</u>	<u>Shale and sand</u>
<u>585</u>	<u>990</u>	<u>405</u>	<u>Sand and shale</u>
<u>990</u>	<u>1172</u>	<u>182</u>	<u>Shale</u>
<u>1172</u>	<u>1723</u>	<u>551</u>	<u>Sand</u>
<u>1723</u>	<u>1852</u>	<u>129</u>	<u>Shale</u>
<u>1852</u>	<u>2192</u>	<u>340</u>	<u>Sand</u>
<u>2192</u>	<u>2975</u>	<u>765</u>	<u>Sand and shale</u>
<u>2975</u>	<u>3333</u>	<u>358</u>	<u>Sand</u>
<u>3333</u>	<u>3357</u>	<u>24</u>	<u>Shale</u>
<u>3357</u>	<u>3370</u>	<u>13</u>	<u>Sand</u>
<u>3370</u>	<u>3433</u>	<u>63</u>	<u>Coal and shale</u>
<u>3433</u>	<u>3482</u>	<u>49</u>	<u>Sand and shaley sand</u>
			<u>3158 Ojo Alama Ss.)</u>
			<u>3356 Farmington Ss.) E.L.</u>
			<u>3370 Frutland Form)</u>
			<u>3433 Pictured Cliffs Ss)</u>

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1000	1000	0	1000
900	1000	100	900
800	1000	200	800
700	1000	300	700
600	1000	400	600
500	1000	500	500
400	1000	600	400
300	1000	700	300
200	1000	800	200
100	1000	900	100
0	1000	1000	0

HISTORY OF OIL OR GAS WELL

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 balling.

Spudded November 15, 1956. Set 5 1/2 @ 3423 November 21, 1956

December 2, 1956

Moved in cable tools.

December 4, 1956

Ran 2" tubing and set RTS ret. @ 3368 Squeeze 100 sacks Max. pressure 200 psi; waited 6 hours squeezed 90 sacks pressure 2600 psi.

December 3, 1956

Drilled out cement to 3455

December 5, 1956

Drilled out to 3482 in sand; Ball 2 bbl water per hour; Ran Gamma Ray to total depth.

December 12, 1956

Ran 96' of 4 1/2 16.60 drill pipe liner on 2" tubing wash with type Baker shoe on bottom and Tex-Call shoe on top of liner cemented at 3478 with 20 sacks cement; Pulled tubing.

December 14, 1956

Pressure tested to 300 psi and pumped in.

December 15, 1956

Ran RTS packer on 2" tubing and set 3360 Squeeze 100 sacks Max press 2000 psi; Packed packer.

December 19, 1956

Drilled out to 3476; Port. liner 4' set to foot 3458-73

December 20, 1956

Treated with 500 gal 15% HCl; Broke down at 1000 psi. Fracture treated with 30,000 pounds sand & 300 bbl. water. Ran tubing to 3375.

December 22, 1956

