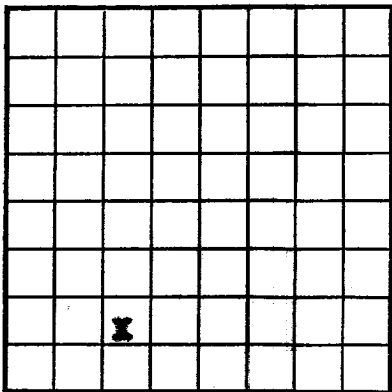




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company San Juan Production Company Address 102 1/2 N. Court, Farmington, New Mexico
Lessor or Tract Howell Field Blanco-La Plata State New Mexico
Well No. 2-A Sec. 5 T. 30N R. 8E Meridian N. M. P. M. County San Juan
Location 990 ft. {N.} of 8 Line and 1690 ft. {E.} of 7 Line of Section 5 Elevation 6378'
(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 E. J. Coal
Title Geological Engineer

Date August 21, 1951

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

Commenced drilling April 4, 1951 Finished drilling July 10, 1951

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

No. 1, from 4845 to 4919 (G) No. 4, from _____ to _____
No. 2, from 4919 to 5311 (G) No. 5, from _____ to _____
No. 3, from 5311 to 5418 (G) No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 1967 to 2042 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>13-3/8"</u> <u>6-5/8"</u>	<u>47</u> <u>47</u>	<u>8</u> <u>8</u>	<u>Howell</u> <u>Howell</u>	<u>250</u> <u>141</u>	<u>Circulated</u> <u>Single Stage</u>				<u>Prod. Tubing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8"</u> <u>6-5/8"</u>	<u>395</u> <u>474</u>	<u>250</u> <u>141</u>	<u>Circulated</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>quartz</u>	<u>Regular</u>	<u>E.L.C.</u>	<u>1400</u>	<u>7-10</u>	<u>4872-5402</u>	<u>5418</u>

TOOLS USED

Rotary tools were used from _____ feet to 4767 feet, and from _____ feet to _____ feet
Cable tools were used from 4767 feet to 5418 (see circulation) feet, and from _____ feet to _____ feet

DATES

August 17, 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 3,100,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 1690

EMPLOYEES

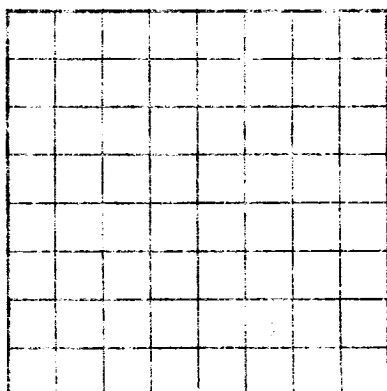
_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>870</u>	<u>870</u>	<u>Ten, coarse-grained ss. w/thin shale breaks.</u>
<u>870</u>	<u>1967</u>	<u>1097</u>	<u>Sandy shales w/thin unconsolidated sand strings</u>
<u>1967</u>	<u>2042</u>	<u>75</u>	<u>8 1/2' Alamo ss.; white, coarse-grained water sand.</u>
<u>2042</u>	<u>2795</u>	<u>753</u>	<u>Kirtland shale; carbonaceous shales w/thin, dense ss.</u>
<u>2795</u>	<u>3124</u>	<u>329</u>	<u>Fruitland formation; gray carbonaceous shales, scattered coals & gray tight, fine-grained ss.</u>
<u>3124</u>	<u>3805</u>	<u>681</u>	<u>Pictured Cliffs formation; gray very fine, very dense, silty, argillaceous ss. Top Pictured Cliffs 3124.</u>
<u>3805</u>	<u>3833</u>	<u>28</u>	<u>Upper Lewis formation; gray, carbonaceous shale.</u>
<u>3833</u>	<u>4845</u>	<u>1012</u>	<u>Lower Lewis formation; gray, v. fine, v. dense, silty ss. to shaly ss.</u>
<u>4845</u>	<u>4919</u>	<u>74</u>	<u>Cliff House ss.; gray, fine-grained, dense ss.</u>
<u>4919</u>	<u>5311</u>	<u>392</u>	<u>Top Cliff House 4845.</u>
<u>5311</u>	<u>5418 TD</u>	<u>107</u>	<u>Monterey formation; gray, fine-grained, porous ss., gray carbonaceous shales & scattered coals. Top Monterey 4919.</u>
			<u>Point Lookout ss.; gray, v. fine, porous, silty ss. w/few shale breaks. Top Point Lookout 5311.</u>

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

LOG OF OIL OR GAS WELL
GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES



LOCATE WELL CORRECTLY

Company _____
Lessor or Tract _____
Well No. _____ Sec. _____ T. _____ R. _____
Location _____ of _____ line and _____ 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.

Date _____ Title _____
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 by G)
No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____

IMPORTANT WATER SANDS

No. 1 from _____ to _____
No. 2 from _____ to _____

CASING RECORD

Size	Depth	Material	Name	Remarks	Kind of pipe	Out and pulled from	Remarks
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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 "backed" or left in the well, give its size and location. If the well has been dynamited, give date, 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 pulling.

HISTORY OF OIL OR GAS WELL

DATE	DESCRIPTION	REMARKS
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TOOLS AND ADAPTERS

Material	Length	Depth set
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SHOOTING RECORD

Size	Depth used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
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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

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

EMPLOYEES

Diller _____
Diller _____

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	10	10	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
10	20	20	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
20	30	30	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
30	40	40	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
40	50	50	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
50	60	60	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
60	70	70	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
70	80	80	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
80	90	90	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.
90	100	100	Gravelly sandstone, gray, fine-grained, fossiliferous, with thin layers of shale.