

U. S. LAND OFFICE **USE INDIAN**
Use Indian Tribal Contract
SERIAL NUMBER **#14-20-604-82**
LEASE OR PERMIT **TO PROSPECT**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
FOR
JUL 9 1959
U. S. GEOLOGICAL SURVEY
ARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Southern Union Gas Company Address 1001 Bart Building, Dallas, Texas
Lessor or Tract Irish Indian Field Verde Gallup State New Mexico
Well No. 4-20 Sec. 20 T. 31N R. 14W Meridian H.M.P.M. County San Juan
Location 660 ft. 100X of N. Line and 660 ft. EX of A Line of Section 20 Elevation 5727'
(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.

Date July 7, 1959

Signed L. S. Masonink
Title Exploration Engineer

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

Commenced drilling April 30, 1959 Finished drilling June 23, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2670' to 2792' No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	71' KB	75	Halliburton		
5-1/2	28 31' KB	28	Halliburton		
Cemented 2nd stage thru DV tool at 1979' w/65 sacks					
2-3/8	2706'				

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
Port. 60-8-2 1/2"						
faced w/ 3,000# steel, 182 lbs oil, dropped 2 x rubber balls.						
DR - 35.6 ft						

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

Put to producing -----, 19-----

The production for the first 24 hours ~~was~~ 93.47 barrels of fluid of which 100 % was oil; - %

emulsion; _____% water; and _____% sodium _____ x 10' 32" stroke with 18 GPM 420

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

FORMATION RECORD

FORMATION RECORD			
FROM—	TO—	TOTAL FEET	FORMATION
0	55	55	Sandy shale
55	120	65	Shale
120	135	15	Hard gray sand
135	320	185	Shale
320	340	20	Sand
340	360	20	Sandy shale
360	400	40	Shale - sand
400	440	40	Sandy shale
440	460	20	Sand
460	535	75	Sandy shale
535	610	75	Shale
610	715	105	Sand
715	735	20	Shale
735	810	75	Sand
810	840	30	Shale
840	855	15	Shale and shells
855	905	50	Shale
905	1010	105	Sandy shale
1010	1021	11	Shale
1021	1090	69	Sand
1090	1110	20	Sandy shale
1110	1190	80	Sand
1190	1290	100	Sand broken
1290	1330	40	Sand, shale - broken
1330	1410	80	Sand
1410	1420	10	Sand

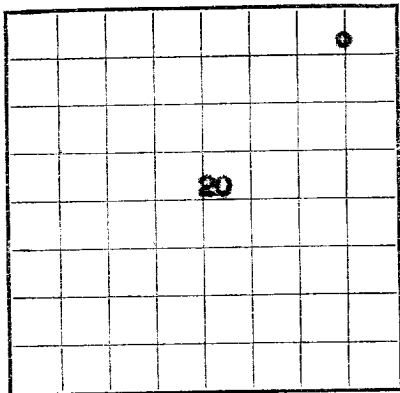
TOPS:

Point Lookout 1015'

Muncos 1384'

Gallup 2664'

16-43084



LOCATE WELL CORRECTLY

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ARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Hart Building, Dallas, Texas
Lessor or Tract Ute Indian Field Verde Gallup State New Mexico
Well No. 4-20 Sec. 20 T. 31N R. 14W Meridian N.M.P.M. County San Juan
Location 660 ft. DN of N Line and 660 ft. EW of E Line of Section 20 Elevation 5127'
(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 L. S. Masonink Title Exploration Engineer
Date July 7, 1959

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

Commenced drilling April 30, 1959 Finished drilling June 23, 1959

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

No. 1, from 2670' to 2792' 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—	
<u>13-3/8</u>	<u>40.2</u>	<u>8.625</u>	<u>J-55</u>	<u>31'</u>					<u>Surface Protection</u>
<u>5-1/2</u>	<u>29.7</u>	<u>8.625</u>	<u>J-55</u>	<u>2833'</u>					

MUDDING AND CEMENTING RECORD

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>71' to 75'</u>	<u>75</u>	<u>Halliburton</u>		
<u>5-1/2</u>	<u>2831' to 2866'</u>	<u>28</u>	<u>Halliburton</u>		
<u>Cemented 2nd stage thru DV tool at 1979' w/65 sacks</u>					
<u>2-3/8</u>	<u>2766'</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>13-3/8</u>	<u>2 1/2"</u>	<u>W/3,000</u>	<u>102</u>	<u>July 1, 1959</u>	<u>270</u>	<u>270</u>
<u>13-3/8</u>	<u>2 1/2"</u>	<u>W/3,000</u>	<u>102</u>	<u>July 1, 1959</u>	<u>270</u>	<u>270</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 2833' feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 1959

The production for the first 24 hours 93.47 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment. 2 1/2" x 10' 32" stroke w/ 186 GPM

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Denson-Martin-Creaser, Driller M. E. Chapman, Driller
E. H. Washburn, Driller Infus Dunlap, Driller

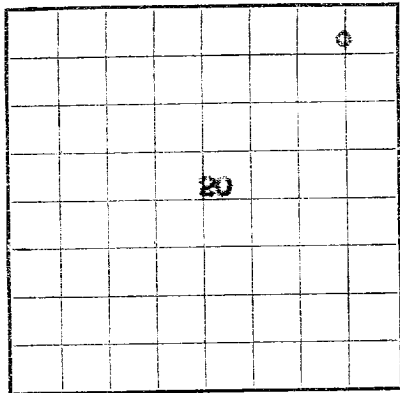
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>55</u>	<u>55</u>	<u>Sandy shale</u>
<u>55</u>	<u>120</u>	<u>65</u>	<u>Shale</u>
<u>120</u>	<u>135</u>	<u>15</u>	<u>Hard gray sand</u>
<u>135</u>	<u>320</u>	<u>185</u>	<u>Shale</u>
<u>320</u>	<u>340</u>	<u>20</u>	<u>Sand</u>
<u>340</u>	<u>360</u>	<u>20</u>	<u>Sandy shale</u>
<u>360</u>	<u>400</u>	<u>40</u>	<u>Shale - sand</u>
<u>400</u>	<u>440</u>	<u>40</u>	<u>Sandy shale</u>
<u>440</u>	<u>460</u>	<u>20</u>	<u>Sand</u>
<u>460</u>	<u>535</u>	<u>75</u>	<u>Sandy shale</u>
<u>535</u>	<u>610</u>	<u>75</u>	<u>Shale</u>
<u>610</u>	<u>715</u>	<u>105</u>	<u>Sand</u>
<u>715</u>	<u>735</u>	<u>20</u>	<u>Shale</u>
<u>735</u>	<u>810</u>	<u>75</u>	<u>Sand</u>
<u>810</u>	<u>840</u>	<u>30</u>	<u>Shale</u>
<u>840</u>	<u>855</u>	<u>15</u>	<u>Shale and shells</u>
<u>855</u>	<u>985</u>	<u>130</u>	<u>Shale</u>
<u>985</u>	<u>1010</u>	<u>25</u>	<u>Sandy shale</u>
<u>1010</u>	<u>1021</u>	<u>9</u>	<u>Shale</u>
<u>1021</u>	<u>1090</u>	<u>69</u>	<u>Sand</u>
<u>1090</u>	<u>1110</u>	<u>20</u>	<u>Sandy shale</u>
<u>1110</u>	<u>1250</u>	<u>140</u>	<u>Sand</u>
<u>1250</u>	<u>1290</u>	<u>40</u>	<u>Sand broken</u>
<u>1290</u>	<u>1330</u>	<u>40</u>	<u>Sand, shale - broken</u>
<u>1330</u>	<u>1410</u>	<u>80</u>	<u>Sand</u>
<u>1410</u>	<u>1420</u>	<u>10</u>	<u>Shale</u>

FROM—	TO—	TOTAL FEET	FORMATION
1420	1545	125	Sandy shale
1545	1680	135	Sandy shale
1680	1720	40	Sandy shale
1720	1905	185	Sandy shale
1905	1935	30	Sandy shale
1935	2015	80	Sandy shale
2015	2075	60	Sandy shale
2075	2100	25	Sandy shale
2100	2235	135	Sandy shale
2235	2300	65	Sandy shale
2300	2345	45	Sandy shale
2345	2415	70	Sandy shale
2415	2435	20	Sandy shale
2435	2445	10	Sandy shale

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



U.S. LAND OFFICE **UTL INDIAN**
Ute Mountain Tribal Contract
SERIAL NUMBER **44-20-604-82**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JUL 9 1959
U.S. GEOLOGICAL SURVEY
ARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company **Southern Union Gas Company** Address **1001 Court Building, Dallas, Texas**
Lessor or Tract **Ute Indian** Field **Verde Gallup** State **New Mexico**
Well No. **4-20** Sec. **20** T. **31N** R. **18E** Meridian **11N.2.W.** County **San Juan**
Location **600** ft. **DN** of **1** Line and **660** ft. **EW** of **2** Line of **Section 20** Elevation **5121'**
(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 **L. S. Washburn** Title **Exploration Engineer**
Date **July 7, 1959**

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

Commenced drilling **April 30**, 19**59** Finished drilling **June 23**, 19**59**

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

No. 1, from **2670'** to **2792'** 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—	
13-3/8	40.5	5/8	J-53	31'		Surface Production			
5-1/2	19.5	3/4	J-55	2833'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	7140	75	Halliburton		
5-1/2	2831' to 2833'	28	Halliburton		
Cemented 2nd stage thru DV tool at 1979' w/65 sacks					
2-3/8	2785'				

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
10-3/8	2 1/2"	Tronit 45,000	100	7/22/59	2785'	2785'
2-3/8	3"					

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from **0** feet to **2833'** feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____

The production for the first 24 hours **93.47** barrels of fluid of which **100** % was oil; _____ % emulsion; _____ % water; and _____ % sediment **1.86** x 10³ **120** strokes **18.6** **120**

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Person-Martin-Gree, Driller **H. E. Chapman**, Driller
S. H. Washburn, Driller **Kufus Dunlap**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	35	35	Sandy shale
35	120	85	Shale
120	135	15	Hard gray sand
135	320	185	Shale
320	340	20	Sand
340	360	20	Sandy shale
360	400	40	Shale - sand
400	440	40	Sandy shale
440	460	20	Sand
460	525	65	Sandy shale
525	610	85	Shale
610	715	105	Sand
715	735	20	Shale
735	810	75	Sand
810	840	30	Shale
840	855	15	Shale and shells
855	985	130	Shale
985	1020	35	Sandy shale
1020	1021	1	Shale
1021	1090	69	Sand
1090	1110	20	Sandy shale
1110	1250	140	Sand
1250	1290	40	Sand broken
1290	1330	40	Sand, shale - broken
1330	1410	80	Sand
1410	1420	10	Shale

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1420	1545	125	Sandy shale
1545	1680	135	Shale
1680	1720	40	Sandy shale
1720	1905	185	Shale
1905	1935	30	Sandy shale
1935	2045	110	Shale
2045	2075	30	Sandy shale
2075	2235	160	Shale
2235	2300	65	Sandy shale
2300	2625	325	Shale
2625	2815	190	Sandy shale
2815	2835	20	Shale

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.