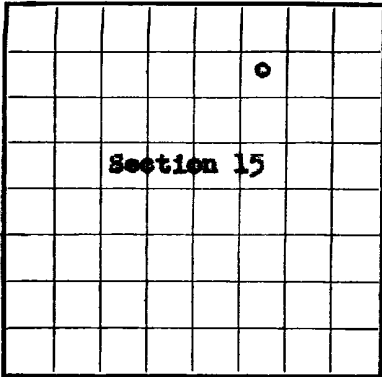


Jicarilla Apache
Tribe of Indians
U. S. LAND OFFICE
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____
Tribal Contract #104



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Southern Union Gas Company** Address **1001 Burt Building, Dallas 1, Texas**
Lessor or Tract **Jicarilla** Field **Wildcat** State **New Mexico**
Well No. **3-E** Sec. **15** T. **26-N** R. **4-W** Meridian **N. M. P. M.** County **Rio Arriba**
Location **800** ft. **S.** of **N** Line and **1670** ft. **W.** of **E** Line of **Section 15** Elevation **6829'**
(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 **A. M. Wiederkehr**
Date **July 12, 1955** Title **Manager, Exploration Dept.**

The summary on this page is for the condition of the well at above date.
Commenced drilling **May 12**, 19 **55** Finished drilling **May 26**, 19 **55**

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

No. 1, from **3502'** to **3539' (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 _____ 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—	
9 5/8"	36#	8rd	J-55	148'					surface production
5 1/2"	17.50#	8rd	J-55	1670'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	148'	150 sacks	Halliburton		
5 1/2"	3502'	150 sacks	Halliburton		
2 3/8"	3512'				

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

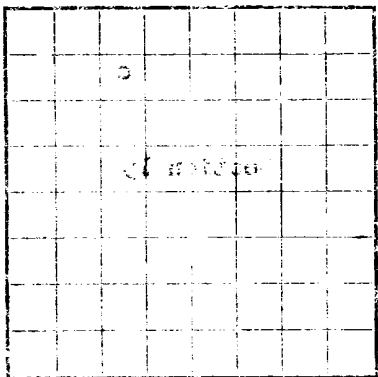
Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Sand fractured from 3502 feet to 3539 feet with 17,500# sand and 16,800 gallons of oil						

TOOLS USED

Rotary tools were used from **0** feet to **3502** feet, and from _____ feet to _____ feet
Cable tools were used from **3502** feet to **3550** feet, and from _____ feet to _____ feet

DATES

May 27, 19 **55** 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 **6793.00** Gallons gasoline per 1,000 cu. ft. of gas _____



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U.S. GEOLOGICAL SURVEY
BUREAU OF MINERAL INVESTIGATION
WASHINGTON, D.C.
20540

Company _____
Pessor or Tract _____
Well No. _____
Location _____
The information given herewith is a complete and correct record of the well and all work done thereon
Signed _____
Date _____

The summary on this page is for the condition of the well as above dated _____
Commenced drilling _____
Finished drilling _____

OIL OR GAS SANDS OR ZONES

(Details see pg. 2)

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 of casing	Weight per foot	Length of casing	Amount of cement	Notes

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

MUDGING AND CEMENTING RECORD				
Size of casing	Weight per foot	Length of casing	Amount of cement	Notes
PLUGS AND ADAPTERS				
Size	Weight per foot	Length of plug	Notes	
SHOOTING RECORD				
Size of casing	Weight per foot	Length of casing	Amount of cement	Notes
TOOLS USED				
Size of casing	Weight per foot	Length of casing	Amount of cement	Notes
DATES				
Size of casing	Weight per foot	Length of casing	Amount of cement	Notes

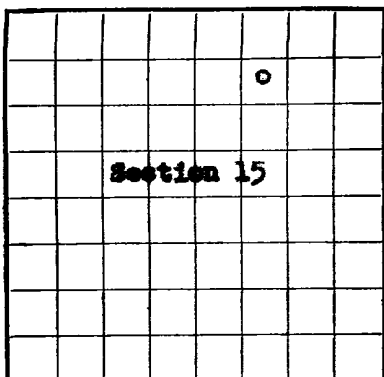
Jicarilla Apache
Tribe of Indians

U. S. LAND OFFICE

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

Tribal Contract #104



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Burt Building, Dallas 1, Texas
Lessor or Tract Jicarilla Field Wildcat State New Mexico
Well No. 3-E Sec. 15 T. 26-N R. 4-W Meridian N. M. P. M. County Rio Arriba
Location 800 ft. NE of N Line and 1670 ft. NE of E Line of Section 15 Elevation 6829'
(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 12, 1955

Signed

A. M. Niederhiser

Title

Manager, Exploration Dept.

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

Commenced drilling May 12, 1955 Finished drilling May 26, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3502' to 3539' (0) 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—	
9 5/8"	36#	8rd	J-55	148'					surface production
5 1/2"	15.40#	8rd	J-55	3502'					
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	148'	150 sacks	Halliburton		
5 1/2"	3502'	150 sacks	Halliburton		
2 3/8"	3512'				

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
Sand fractured from 3502 feet to 3539 feet with 17,500# sand and 16,800 gallons of oil						

TOOLS USED

Rotary tools were used from 0 feet to 3502 feet, and from _____ feet to _____ feet
Cable tools were used from 3502 feet to 3550 feet, and from _____ feet to _____ feet

DATES

May 27, 1955 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 6793.00 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 1087#/20 days

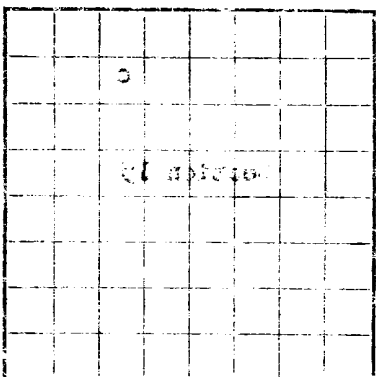
EMPLOYEES

Fleeger-Riley Drilling Co., Driller McKinney Drilling Company, Driller
J. A. Thompson, Driller Mike Gormley, Driller
J. M. Murphy, Driller H. L. Holderman, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	172	172	Sand
172	3317	3145	Sand & Shale
3317	3470	53	Sand, Shale & Coal
3470	3502	32	Sand and shale
3502	3537	35	Sand
3537	3550	13	Shale
Tops: Pictured Cliffs 3500			





LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Company _____
Location _____
Well No. _____
Section _____
Township _____
Range _____
County _____
State _____
Address _____
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 _____

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 casing	Weight per foot	Length	Amount	Kind of material	Remarks

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 holes. If pumps 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

U. S. GOVERNMENT PRINTING OFFICE: 1930-4-3

MUDGING AND CEMENTING RECORD

Size casing	Weight per foot	Length	Amount	Kind of material	Remarks

PLUGS AND ADAPTERS

Heavy plug—Material _____
Adapters—Material _____

SHOOTING RECORD

Size	Weight per foot	Length	Amount	Kind of material	Remarks

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 _____
The production for the first 24 hours was _____ barrels of fluid of which _____ was oil; _____ was water, and _____ was sediment.
It gas well, _____ per 24 hours.
Block pressure, _____ per 24 hours.

EMPLOYEES

Driller _____
Driller _____
Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET
30.0	31.0	1.0
31.0	32.0	1.0
32.0	33.0	1.0
33.0	34.0	1.0
34.0	35.0	1.0
35.0	36.0	1.0
36.0	37.0	1.0
37.0	38.0	1.0
38.0	39.0	1.0
39.0	40.0	1.0
40.0	41.0	1.0
41.0	42.0	1.0
42.0	43.0	1.0
43.0	44.0	1.0
44.0	45.0	1.0
45.0	46.0	1.0
46.0	47.0	1.0
47.0	48.0	1.0
48.0	49.0	1.0
49.0	50.0	1.0
50.0	51.0	1.0
51.0	52.0	1.0
52.0	53.0	1.0
53.0	54.0	1.0
54.0	55.0	1.0
55.0	56.0	1.0
56.0	57.0	1.0
57.0	58.0	1.0
58.0	59.0	1.0
59.0	60.0	1.0
60.0	61.0	1.0
61.0	62.0	1.0
62.0	63.0	1.0
63.0	64.0	1.0
64.0	65.0	1.0
65.0	66.0	1.0
66.0	67.0	1.0
67.0	68.0	1.0
68.0	69.0	1.0
69.0	70.0	1.0
70.0	71.0	1.0
71.0	72.0	1.0
72.0	73.0	1.0
73.0	74.0	1.0
74.0	75.0	1.0
75.0	76.0	1.0
76.0	77.0	1.0
77.0	78.0	1.0
78.0	79.0	1.0
79.0	80.0	1.0
80.0	81.0	1.0
81.0	82.0	1.0
82.0	83.0	1.0
83.0	84.0	1.0
84.0	85.0	1.0
85.0	86.0	1.0
86.0	87.0	1.0
87.0	88.0	1.0
88.0	89.0	1.0
89.0	90.0	1.0
90.0	91.0	1.0
91.0	92.0	1.0
92.0	93.0	1.0
93.0	94.0	1.0
94.0	95.0	1.0
95.0	96.0	1.0
96.0	97.0	1.0
97.0	98.0	1.0
98.0	99.0	1.0
99.0	100.0	1.0

