

Section 13

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U. S. LAND OFFICE **Jicarilla Apache**
 SERIAL NUMBER **Tribe of Indians**
 LEASE OR PERMIT TO PROSPECT **Contract #105**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Burt Bldg., Dallas, Texas
 Lessor or Tract Jicarilla Field Wildcat State New Mexico
 Well No. 4-A Sec. 13 T. 26-N R. 4-W Meridian N.M.P.M. County Rio Arriba
 Location 950 ft. N. of S. Line and 1820 ft. E. of W Line of Section 13 Elevation 7180
(Derive Box relative to well head)

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
A. M. Wiederkehr,
Date August 10, 1955 Title Manager, Exploration Dept.

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

Commenced drilling ----- **June 16.**, 19**55** Finished drilling ----- **July 1.**, 19**55**

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

No. 1, from 3860 to 3925 (4) 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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	166 DF	150	Haliburton		
5-1/2	3860 DF	150			
2-3/8	3875				

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 Frac from 3860 to 3925 with 16,500 gals oil and 17,500# sand.						

TOOLS USED

Rotary tools were used from 0 feet to 3915 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 ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours 1,200,000 Gallons gasoline per 1,000 cu. ft. of gas

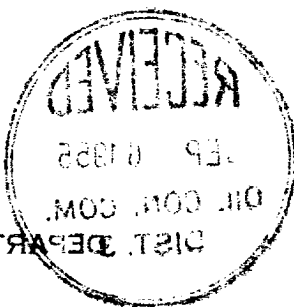
Rock pressure, lbs. per sq. in. ~~1027#~~ 1027# / 26 Days

EMPLOYEES	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
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85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Fleeger-Riley Drilling Co.	Driller	McKinsey Drilling Company	Driller
J. M. Murphy	Driller	J. W. McKinsey	Driller

FORMATION RECORD

J. A. Thompson		W. G. Lewis	
FROM—	TO—	TOTAL FEET	FORMATION
0	563	563	Sand
563	3442	3079	Sand & Shale
3442	3545	103	Sand, Shale & Coal
3545	3673	128	Sand & Shale
3673	3915	242	Sand, Shale & Coal
3915	3925	10	Sand & Shale
Pictured Cliff 3833			



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

4. July 1966

Company Name _____
 Address _____
 State _____
 Field _____
 County _____
 Location _____
 of _____
 The information given herein 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 _____

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

(Please pay to)
OIL OF GAS SANDS OR ZONES

No. 1, from	to	No. 1, from	to
No. 2, from	to	No. 2, from	to
No. 3, from	to	No. 3, from	to
No. 4, from	to	No. 4, from	to
No. 5, from	to	No. 5, from	to
No. 6, from	to	No. 6, from	to
No. 7, from	to	No. 7, from	to
No. 8, from	to	No. 8, from	to
No. 9, from	to	No. 9, from	to
No. 10, from	to	No. 10, from	to

IMPORTANT WATER STANDS

.....	01		mon1, 8.0%		02		mon1, 1.0%
.....	02		mon1, 1.0%		03		mon1, 2.0%

CASING RECORD

[illegible]

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 added, located, or left in the well, give the date 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, and number of barrels of water.

HISTORY OF OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

MOODING AND CRIMINAL RECORD					
Case No.	Offense	Arrested on	Arrested by	Arrested at	Arrested by
1	...	...	...	...	...
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PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

DATE	FROM BANK	MEMORANDUM	DEPOSIT	TO THE ORDER OF	THE BANKERS' TRUST CO.
1914					

TOOT & CO

[illegible]

DATA

It was well over 24 hours	100% water; and 100% steam	100% water; and 100% steam
The production for the first 24 hours was	100% water; and 100% steam	100% water; and 100% steam
But to producing	100% water; and 100% steam	100% water; and 100% steam

EMPLOYEES

Officer		Officer	
Officer		Officer	

FORMATION RECORD

[illegible]