

U. S. LAND OFFICE Ute Tribe of Indians
SERIAL NUMBER Jicarilla Tribal
LEASE OR PERMIT TO PROSPECT Contract No. 10

Section 33

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Southern Union Gas Company Address 1001 Burt Building, Dallas 1, Texas
Lessor or Tract Jicarilla Field Wildcat State New Mexico
Well No. 1-L Sec. 33 T. 25-N R. 5-W Meridian N.M.P.M. County Rio Arriba
Location 1650 ft. N. of S Line and 1650 ft. N. of E Line of Section 33 Elevation 6722'
(Tierick 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
A. M. Wiederkehr
Title Manager, Exploration Dept.

Date ~~XX~~ June 13, 1955

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

Commenced drilling April 10 1955 Finished drilling April 30 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2670 to 2680 (a) No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

RECEIVED

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
MARK	9	5/8	152-50 RIB	150 sacks	Halliburton		
		7	2670 LF	150 sacks	Halliburton		
		1	2676				

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 2670' to 2741' with 12,600 gallons of oil and 10,500' sand.						

TOOLS USED

Rotary tools were used from 0 feet to 2734 feet, and from _____ feet to _____ feet.

Cable tools were used from 2734 feet to 2741 feet, and from _____ feet to _____ feet.

DATES

April 30, 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 314.97 MCF Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 829#/12 days

EMPLOYEES

Fleeger Riley Drilling Company		McKinney Drilling Company	
Driller		Driller	
C. A. Childs		Bill Nail	
Driller		Driller	

Doyle Stone

FROM—	TO—	TOTAL FEET	FORMATION
-0-	110	110	sand & shaly
110	154	110 44	110 Cement
154	575	421	shale
575	2680	2105	sand & shale
2680	2734	54	sand
2734	2741	7	sand
Tops: Pictured Cliffs 2670			

Tops: Pictured Cliffs 2670

FORMATION RECORD—Continued

[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 "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

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RECEIVED
JUN 1 1955
OFF. COO. CON.
DIST. 3

JOURNAL OF DOCUMENTATION
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1. *Chlorophyll a* and *Chlorophyll b* contents were determined by spectrophotometry using the method of Lichtenthaler and Whaley (1987). The absorbance of the chlorophyll extracts was measured at 663 nm and 646 nm. The concentrations of chlorophyll *a* and chlorophyll *b* were calculated using the following equations: