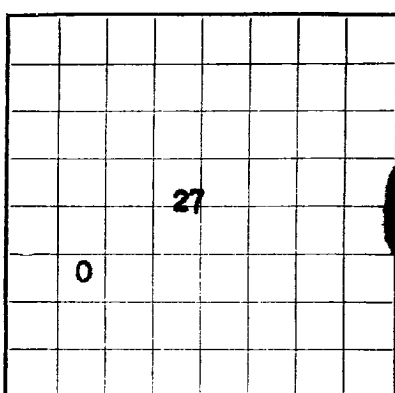


U. S. LAND OFFICE **Jicarilla Apache**
SERIAL NUMBER **Tribe of Indians**
LEASE OR PERMIT TO PROSPECT **Contract No. 107**



RECEIVED
FEB 29 1960
OIL CON
DIS

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 Bldg., Dallas, Texas
Lessor or Tract Jicarilla Field Blanco-Mesaverde State New Mexico
Well No. 1-F Sec 27 T. 26N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1600 ft. N of S Line and 850 ft. E of W Line of Section 27 Elevation 7190'
(Give in feet unless otherwise specified)

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 2-23-60 Signed Oran L. Haseltine
Title Production Superintendent

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

Commenced drilling August 25....., 1959 Finished drilling December 15....., 1959

REDRILL AND DEEPENING

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 8325 to 8151 (G) No. 4, from _____ to _____
 No. 2, from 6030 to 5900 (G) No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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	8R	H-40	195'					Surface
7-1/2	20 1/2	8R	J-55	4150'					Surface
5-1/2	15	8R	J-55	8350-5224'					Inner
2-3/8	4.7	8R	J-55	7824'					Lower Zone Tubing
2-3/8	4.7	8R	J-55	5180'					Upper Zone Tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	195	125	Circ.		
7"	519	250	Circ.		
5"	8350-5219	450 cu.ft. 40% diacel, 45 sq. f'd. top w/75 sx.	45 sx reg. Circ.		

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
Perf. 4	BPF 8325-8341,	8291-8285,	8276-8266.	Acidized w/1000 gals.	Frac'd. w/58,96	
gals. 29,500#	sd.	Perf. 6 bpf. 8224-8193,	8182-8151	Acidized w/1000 gals.	Frac'd	
50,000#	sd., 65982	gals. water.	Perf'd 4 bpf 7940-8000.	Acid w/500 gal. and 200 g		
Frac'd w/1500#	sd., 28098	gals water.	Acid w/6,000 gals. acid,	sq'd w/100 ex.		

Rotary tools were used from 5139 feet to 8150 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

February 24, 1960 Put to producing February 1960

The production for the first 24 hours was 100 barrels of fluid of which 90 % was oil; _____ % emulsion; 10 % water; and _____ % sediment. Gravity, °Bé. 42 deg. API

If gas well, cu. ft. per 24 hours 2746 ~~100~~ Gallons gasoline per 1,000 cu. ft. of gas -

Rock pressure, lbs. per sq. in. 1177

EMPLOYEES

Fleeger Drilling Company, Driller
Reames Well Servicing Co., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
5439	6050	611	Shale and Sand
6050	6640	590	Shale
6640	7934	1294	Shale and sand
7934	8000	66	Sand and Shale
8000	8150	150	Shale and Sand
8150	8350	200	Sand and Shale
			Tops: CH 5428
			Menafee 5518
			PL 5900
			Gallup 6640
			Greenhorn 7935
			Dakota 8046

[OVER]

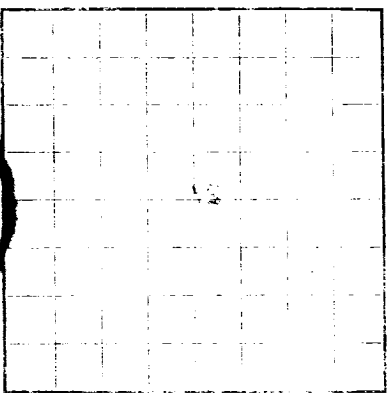
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EVOLUTION RECENT: COLLECTIVE

U. S. LAND OFFICE
Serial Number
This is on Permit to Prospect

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company Name
Address
Treasurer
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 given
Commenced drilling

OIL OR GAS SANDS OR ZONES

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

Casing	Weight	Threads	Make	Amount	Kind of shoe	Run and pulled from	Perforated	Purpose
	per foot	per inch					From	To

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 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

MUDDING AND CEMENTING RECORD

TOOLS AND ADAPTERS

SHOOTING RECORD

Shot	Shell used	Explosive used	(Quantity)	Date	Depth shot	Depth cleaned out

TOOLS USED

DATES

EMPLOYEES

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION