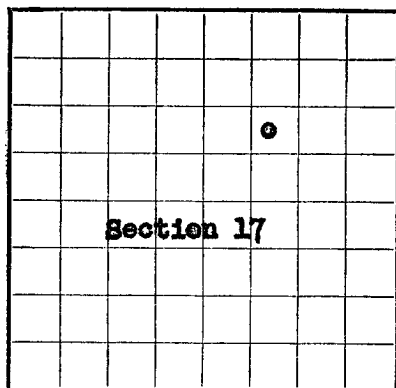
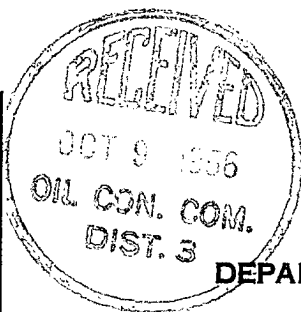


U. S. LAND OFFICE **Jicarilla Apache**
Tribe of Indians
SERIAL NUMBER **Contract #103**
LEASE OR PERMIT TO PROSPECT

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 Bldg., Dallas, Texas
 Lessor or Tract Jicarilla Field Tapacito P. O. State New Mexico
 Well No. 2-H Sec. 17 T. 26 R. 4N Meridian N.M.P.M. County Rio Arriba
 Location 1650 ft. [N] of N Line and 1650 ft. [E] of E Line of Section 16 17 Elevation 6771
 (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

Date August 24, 1956

 Title Mgr., Exploration Dept.

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

Commenced drilling 5-5-, 1956 Finished drilling 5-15-, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3428 to 3468 (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	32.30#	8RD	J-55	217'					Surface Prod.
4-1/2	9.70#	8RD	J-55	350'					
It is of the greatest importance to make a complete history of the well. Please state in detail the dates of recording, together with the reasons for the work and the results. If there were any changes made in the casing, state them, and if any casing was lost, state the location and quantity.									
HISTORY OF OIL OR GAS WELL									
TO—43064-3 U. S. GOVERNMENT PRINTING OFFICE									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	198' RKB	150	Halliburton		
4-1/2	3489' RKB	150	Halliburton		
2-3/8	3422'				

PLUGS AND ADAPTERS

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

FOLD MARK

9-5/8	198'	RKB	150	Halliburton		
4-1/2	3489'	RKB	150	Halliburton		
2-3/8	3422'					

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
Job #1 Perforated 3428-3468 - Sand water fraced with 15,000 gals. water & 13,000# sand.						
Job #2 Water fraced perforations 3428-3468 with 42,000 gals. water						

TOOLS USED

Rotary tools were used from ~~-0-~~ feet to ~~3489~~ feet, and from feet to feet

Cable tools were used from ~~Cleaning out & fracing~~ feet, and from feet to feet

DATES

~~7-16-~~, 19 ~~56~~. 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 ~~943 MCF~~ Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. ~~1095#/72 hrs.~~

EMPLOYEES

~~Empire State Drilling Company~~, Driller ~~McKinney Drilling Company~~, Driller

~~W. C. Bramble~~, Driller ~~R. E. Edwards~~, Driller

~~A. L. Johns~~ **FORMATION RECORD** ~~Mike Grumley~~

FROM—	TO—	TOTAL FEET	FORMATION
-0-	42	42	Shale
42	197	155	Shale & sand
197	207	10	Shale
207	2811	2604	Sand & shale
2811	2861	50	Sand
2861	2932	71	Sand & shale
2932	3106	174	Shale & Bentonite
3106	3148	42	Sand, shale & Bentonite
3148	3489 TD	341	Sand & shale
Pictured Cliffs 3420'			
EBOW—	LO—	JULY 1956	FORMATION

[OVER]

10-48094-8

FORMATION RECORD—Continued