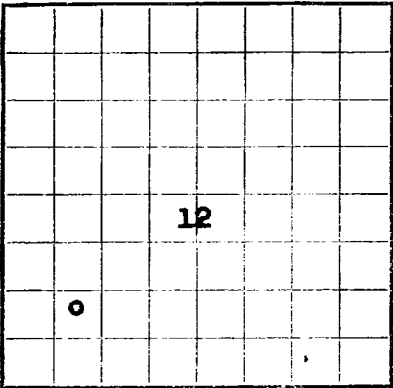
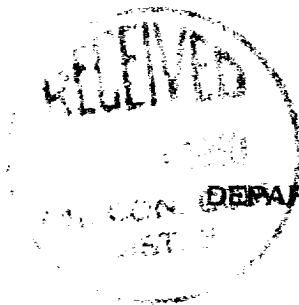




LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. LAND OFFICE Jicarilla
SERIAL NUMBER Tribal Contract
LEASE OR PERMIT TO PROSPECT #145

LOG OF OIL OR GAS WELL

Room 1434

Company Southern Union Gas Company Address Fidelity Union Tower Building
Lessor or Tract Jicarilla Field So. Blanco P. C. State New Mexico
Well No. 9-K Sec. 12 T. 25N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. N. of 8 Line and 990 ft. E. of W Line of Section 12 Elevation 7215 GL
(Berrick 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.
Original Signed By P. J. CLOTE
Signed Paul J. Clote Title Mgr., Drilling and Production
Date August 11, 1960

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

Commenced drilling July 13, 1960, 19 Finished drilling July 18, 1960, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3539- to 3574' (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—	
<u>9-5/8</u>	<u>32-30#</u>	<u>8 RD</u>	<u>E-40</u>	<u>212</u>	<u>212</u>	<u>Surface Production</u>			
<u>4-1/2</u>	<u>9-5#</u>	<u>8 RD</u>	<u>E-40</u>	<u>3610</u>	<u>3610</u>	<u>Surface Production</u>			
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
<u>9-5/8</u>	<u>202</u>	<u>200</u>	<u>Halliburton</u>		
<u>4-1/2</u>	<u>3604</u>	<u>200</u>	<u>Halliburton</u>		
<u>1-1/2</u>	<u>3534</u>				

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
<u>Perf. 3539-3574'</u>	<u>IR-46 BPM</u>	<u>Placed w/100,000# sand,</u>	<u>87,948 gals. water,</u>			<u>dropped 140 rubber balls.</u>

TOOLS USED

Rotary tools were used from 0- feet to 3610' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

July 22, 1960, 19 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 12,747 MOFPD Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 914#

EMPLOYEES

Fleeger Drilling Co., Driller Reames
E. F. Renfro, Driller S. S. Wall Servicing, Driller
T. C. Antone, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0-</u>	<u>205</u>	<u>205</u>	<u>Surface sand</u>
<u>205</u>	<u>3437</u>	<u>3232</u>	<u>Sand and shale</u>
<u>3437</u>	<u>3610 TD</u>	<u>173</u>	<u>Sand, shale and coal</u>
			<u>TOPS: Pictured Cliffs 3513'</u>

(OVER)

FORMATION RECORD

