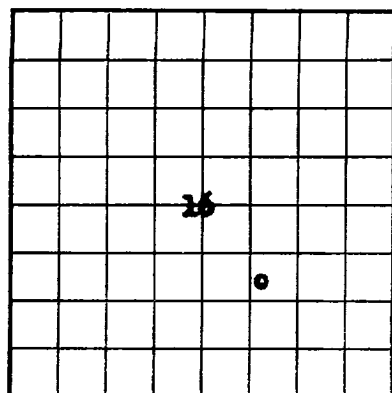


U. S. LAND OFFICE Jicarilla TribalSERIAL NUMBER Tract #104

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
AUG 2 1954
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Bart Building, Dallas, Texas
Lessor or Tract Jicarilla Field Wildcat State New Mexico
Well No. 1-E Sec. 16 T. 26N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1650 ft. ^[N] of 3 Line and 1650 ft. ^[E] of 1 Line of 16 Elevation 7190'
_(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.

Original Signed By

Signed A. M. WIEDERKEHRA. M. WiederkehrTitle Manager Exploration Dept.Date 7-30-54

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

Commenced drilling 6-6, 1954 Finished drilling 7-1, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3413' (0) to 3455' (0) 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"	132	7-55	3413'	3455'					Surface Production
7"	105	7-55	3455'	3465'					
2-3/8"	4.704	7-55	3465'						

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	216' GL	125	Halliburton		
7"	3407' GL	150	"		
2-3/8"	3423' GL				

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
		NONE				

TOOLS USED

Rotary tools were used from 0 feet to 3465' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Clean out below casing

Completed 7-1, 1954

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 3087.04 MCF Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1085# 5. IN 7/days
EMPLOYEES

J. B. Copeland _____, Driller D. H. Hood _____, Driller
_____, Driller _____, Driller

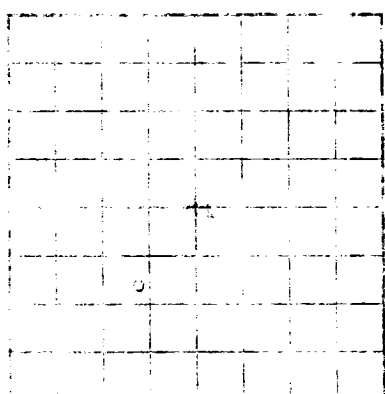
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	192	192	sand and shale
192	240	58	sand
240	1260	1020	sand and shale
1260	1514	257	shale
1514	2746	1232	sand and shale
2746	2858	112	shale
2858	3108	250	sand and shale
3108	3172	64	hard shale
3172	3257	85	sandy shale
3257	3289	32	shale
3289	3390	101	shale and coal
3390	3403	13	coal
3403	3465 T.D.	62	sand and shale

TOPS:

Pictured Cliffs - 3413'

FORMATION RECORD—Continued



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AUG 1917

Company Name _____
Location _____
Field _____
State _____
County _____
Section _____
Twp _____
R _____
Location _____
The information given here is a complete and correct record of the well and the work done thereon
so far as has been determined from the logs and reports.

Original Signed By _____

A. M. WIEDERKEHR

Comments _____
The summary on this page is for the use of the well owner only.

OIL OR GAS SAMPLES OR CORES

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

CASING RECORD

Size _____
Depth _____
Material _____
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 fully, and if any casing was "detached" 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 things 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

SHOOTING RECORD

Size _____
Depth _____
Date _____
Quantity _____
Depth cleaned out _____

TOOLS USED

DATES

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	10	10	Gravel
10	20	20	Sand
20	30	30	Clay
30	40	40	Shale
40	50	50	Limestone
50	60	60	Gypsum
60	70	70	Salt
70	80	80	Oil
80	90	90	Gas
90	100	100	Water