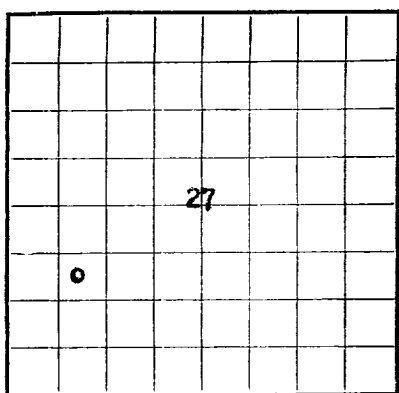


U. S. LAND OFFICE Jicarilla Indian
SERIAL NUMBER Contract #107
LEASE OR PERMIT TO PROSPECT



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 Building
Lessor or Tract Jicarilla Field Wildcat State New Mexico
Well No. 1-F Sec. 27 T. 26-N R. 4-W Meridian N.M.P.M. County Rio Arriba
Location 1600 ft. [N.] of S. Line and 850 ft. [E.] of W. Line of Sec. 27 Elevation 7190' DF
(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 A. M. Wiederkehr
Title Manager Exploration Dept.

Date November 1, 1954

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

Commenced drilling 6-20, 1954 Finished drilling 7-7, 1954
(re-entered) 8-16-54 9-29-54

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3780' to 3825' G No. 4, from _____ to _____
No. 2, from 5408' to 5520' G No. 5, from _____ to _____
No. 3, from 5900' to 6030' G 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>36#</u>		<u>HLO</u>	<u>1951'</u>					
<u>7</u>	<u>30#</u>		<u>HLO</u>	<u>5419'</u>					
<u>2-3/8</u>	<u>4.7#</u>		<u>J-55</u>	<u>5983'</u>					

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>193' GL</u>	<u>125</u>	<u>Halliburton</u>		
<u>7</u>	<u>5419'</u>	<u>250</u>	<u>"</u>		
<u>2-3/8</u>	<u>5983'</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

TOOLS USED

Rotary tools were used from 0 feet to 6083' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed 10-1, 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 422.6 MCF Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. SICP 929# 3-I. 14/days

EMPLOYEES

H. B. Lynn, Driller D. M. Starnes, Driller
C. D. Woodall, Driller J. J. Armstrong, Driller

FORMATION RECORD

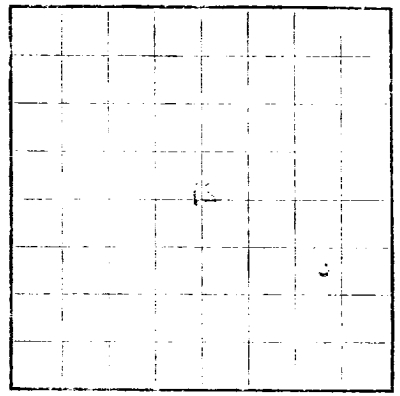
FROM-	TO-	TOTAL FEET	FORMATION
0	240	240	surface sand
240	2722	482	sand and shale
2722	2772	50	hard shale
2772	2934	162	shale
2934	3001	67	hard shale
3001	3118	117	shale
3118	3219	101	hard shale
3219	3616	397	shale
3616	3713	97	shale and coal
3713	3789	76	coal and sand
3789	3805	16	sand
3805	3828	23	sand and shale
3875	4210	335	shale
4210	4272	62	shale w/sand streaks
4272	4820	568	shale
4820	4837	17	sand and shale
4837	5263	376	shale
5263	5274	11	sandy shale
5274	5420	146	shale and sand
5420	6070	650	sand
Picture Cliff	3780'		
Cliff House	5408'		
Point Lookout	5900'		

Tops:
Hirtland - 3463'
Fruitland - 3583'
Pictured Cliffs - 3780'
Lewis - 3815'
Cliff House - 5408'
Mancoes - 5517'
Point Lookout - 5900'
Mancoes - 6028'

TD 6083'

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company _____
Lessor or Third Party _____
Well No. _____
Location _____

The information given hereon 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 _____
The summary on this page is for the condition of the well at this date.

Commenced drilling _____
Finished drilling _____

OIL OR GAS SANDS OR ZONES

Table with columns for No. 1 from, No. 2 from, No. 3 from, and depth.

IMPORTANT WATER SANDS

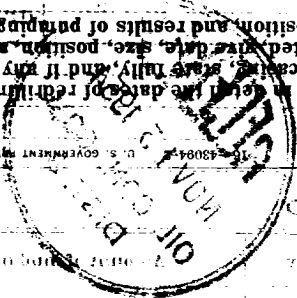
Table with columns for No. 1 from, No. 2 from, and depth.

CASING RECORD

Table with columns for Casing, Size, Weight, Threads, Make, Amount, Kind of steel, and Purpose.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of running, 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 "struck" or left in the well, give its size and location. If the well has been dynamited, 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 putting or pulling.

HISTORY OF OIL OR GAS WELL



MUDDING AND CEMENTING RECORD

Table for mudding and cementing records.

PLUGS AND ADAPTERS

Table for plugs and adapters.

SHOOTING RECORD

Table for shooting records.

TOOLS USED

Table for tools used.

DATES

Put to producing _____
The production for the first 24 hours was _____
It gas well, on ft. per 24 hours _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Table for employees.

FORMATION RECORD

Main formation record table with columns for FROM, TO, TOTAL FEET, and FORMATION.

Handwritten notes and numbers in the bottom left corner.

Vertical text on the right margin.