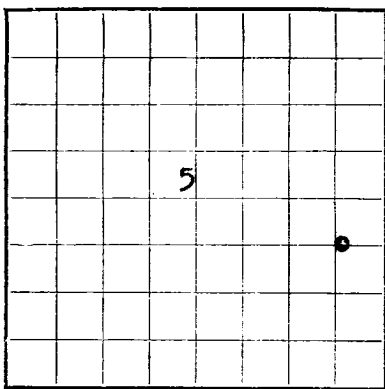




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **028446 (a)**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Southern Union Gas Company** Address **1001 Burt Building, Dallas 1, Texas**
Lessor or Tract **Vandagriff** Field **Red Lake** State **New Mexico**
Well No. **11** Sec. **5** T. **17S** R. **28E** Meridian **N.M.P.M. - 7 1/2** County **Eddy**
Location **1980** ft. **N** of **S** Line and **660** ft. **EX** of **E** Line of **Section 5** Elevation **3615**
(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 **Paul J. Clote** Title **Petroleum Engineer**
Date **March 30, 1955**

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

Commenced drilling **January 21**, 19 **55** Finished drilling **March 6**, 19 **55**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **1349** to **1372 (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—	
8 5/8"		Recovered							
7"		Recovered							
5 1/2"	15.5	ERT	J-55	1349'	Halliburton	Formation Packer Shoe			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	503'	Recovered			
7"	1275'	Recovered			
5 1/2"	1349'	500 sz. 4% gel.	Halliburton		
			Formation Packer Shoe		Cement to Surface

PLUGS AND ADAPTERS

Heaving plug—Material **Halliburton** Length **Bridge Plug** Depth set **1490'**
Adapters—Material _____ Size **5 1/2"**

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Sand frac - 3/19/55 with 7500# sand and 7500 gallon oil. Breakdown pressure 2100#						
Injection pressure 1500#. Injection rate 22 bbl./min.						
Total Depth - 2420' Plug Back Depth - 1372'						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from **-0-** feet to **2420 4** feet, and from _____ feet to **2** feet

DATES

March 13, 19 **55** 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 **3,820 MCF** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **300#/day**

EMPLOYEES

Donnelly Drilling Company, Driller **C. L. Bowen**, Driller
Orland Ferrell, Driller **F. H. Sandvich**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	20	20	Rock
20	30	10	Gravel
30	130	100	Red Shale
130	195	65	Shale & Gyp.
195	200	5	Shale
200	210	10	Sand
210	220	10	Shale
220	230	10	Shell
230	270	40	Shell, Anky. & Mud
270	275	5	Shale
275	285	10	Sand
285	300	15	Lime
300	308	8	Shale
308	340	32	Lime
340	350	10	Shale
350	354	4	Lime
354	385	31	Brown Shale
385	400	15	Water Sand
400	415	15	Red Bed
415	421	6	Sand
421	430	9	Lime
430	455	25	Lime, Shells & Shale

FROM

TO

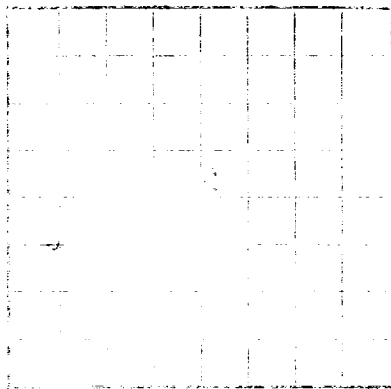
TOTAL FEET

[OVER]

FORMATION

16-43094-3

FORMATION RECORD—Continued



LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRELATION

The information given in this log is a summary of the work done in the well, and is not intended to be a complete record of the work. It is the responsibility of the person making the log to see that it is a true and correct record of the work done in the well, and that it is a complete record of the work done in the well.

The summary on this page is for the location of the well, and is not intended to be a complete record of the work done in the well. It is the responsibility of the person making the log to see that it is a true and correct record of the work done in the well, and that it is a complete record of the work done in the well.

LOG OF OIL OR GAS SANDS OR LENSES

No. 1 from
No. 2 from
No. 3 from

IMPORTANT WATER SANDS

No. 1 from
No. 2 from

Case	Weight	Length	Kind	Remarks

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 "sidetracked," 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 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

FROM	TO	TOTAL FEET	FORMATION
130	120	10	Shale
120	110	10	Shale
110	100	10	Shale
100	90	10	Shale
90	80	10	Shale
80	70	10	Shale
70	60	10	Shale
60	50	10	Shale
50	40	10	Shale
40	30	10	Shale
30	20	10	Shale
20	10	10	Shale
10	0	10	Shale
0	10	10	Shale
10	20	10	Shale
20	30	10	Shale
30	40	10	Shale
40	50	10	Shale
50	60	10	Shale
60	70	10	Shale
70	80	10	Shale
80	90	10	Shale
90	100	10	Shale
100	110	10	Shale
110	120	10	Shale
120	130	10	Shale
130	140	10	Shale
140	150	10	Shale
150	160	10	Shale
160	170	10	Shale
170	180	10	Shale
180	190	10	Shale
190	200	10	Shale
200	210	10	Shale
210	220	10	Shale
220	230	10	Shale
230	240	10	Shale
240	250	10	Shale
250	260	10	Shale
260	270	10	Shale
270	280	10	Shale
280	290	10	Shale
290	300	10	Shale
300	310	10	Shale
310	320	10	Shale
320	330	10	Shale
330	340	10	Shale
340	350	10	Shale
350	360	10	Shale
360	370	10	Shale
370	380	10	Shale
380	390	10	Shale
390	400	10	Shale
400	410	10	Shale
410	420	10	Shale
420	430	10	Shale
430	440	10	Shale
440	450	10	Shale
450	460	10	Shale
460	470	10	Shale
470	480	10	Shale
480	490	10	Shale
490	500	10	Shale
500	510	10	Shale
510	520	10	Shale
520	530	10	Shale
530	540	10	Shale
540	550	10	Shale
550	560	10	Shale
560	570	10	Shale
570	580	10	Shale
580	590	10	Shale
590	600	10	Shale
600	610	10	Shale
610	620	10	Shale
620	630	10	Shale
630	640	10	Shale
640	650	10	Shale
650	660	10	Shale
660	670	10	Shale
670	680	10	Shale
680	690	10	Shale
690	700	10	Shale
700	710	10	Shale
710	720	10	Shale
720	730	10	Shale
730	740	10	Shale
740	750	10	Shale
750	760	10	Shale
760	770	10	Shale
770	780	10	Shale
780	790	10	Shale
790	800	10	Shale
800	810	10	Shale
810	820	10	Shale
820	830	10	Shale
830	840	10	Shale
840	850	10	Shale
850	860	10	Shale
860	870	10	Shale
870	880	10	Shale
880	890	10	Shale
890	900	10	Shale
900	910	10	Shale
910	920	10	Shale
920	930	10	Shale
930	940	10	Shale
940	950	10	Shale
950	960	10	Shale
960	970	10	Shale
970	980	10	Shale
980	990	10	Shale
990	1000	10	Shale