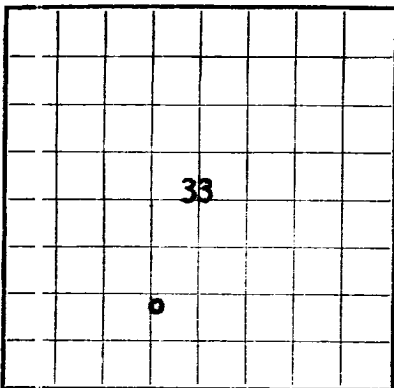




LOCATE WELL CORRECTLY

COPYBudget Bureau No. 42-R355.4.
Approval expires 12-31-60.
U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF-080724-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, Texas**
Lessor or Tract **Zachry** Field **Aztec-Pictured Cliffs** State **New Mexico**
Well No. **13** Sec **33** T **29N** R. **10W** Meridian **N.M.P.M.** County **San Juan**
Location **1100** ft. **N.** of **S** Line and **1450** ft. **E.** of **W** Line of **Section 33** Elevation **5796'**
(Derivat 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 **Paul J. Clote, Manager**
Signed **P. J. Clote** Title **Drilling and Production**
Date **February 8, 1960**

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

Commenced drilling **January 4**, 19**60** Finished drilling **January 10**, 19**60****OIL OR GAS SANDS OR ZONES**

(Denote gas by G)

No 1, from **1997** to **2052** No. 4, from _____ to _____
No 2, from **1827** to **1855** 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	32.8	8	1-40	100	Halliburton	1997			
5-1/2	20.9	8	1-40	140	Halliburton	1855			
2-3/8	11.5	8	1-40	140	Halliburton	1827			

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
9-5/8	105.5 KB	100	Halliburton		
5-1/2	2009 KB	140	Halliburton		

PLUGS AND ADAPTERSHeaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Perf. 1997-2052'	Frased w/100,000#	sand, 55,000 gals. water, 200 rubber balls,				
IR-2.9 BPM	2nd stage - 1855-1827'	w/30,000# sand, 41,500 gals water. IR-30.3 BPM				

TOOLS USEDRotary tools were used from **0** feet to **2100** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet**DATES**_____**January 27**_____, 19**60** 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. _____

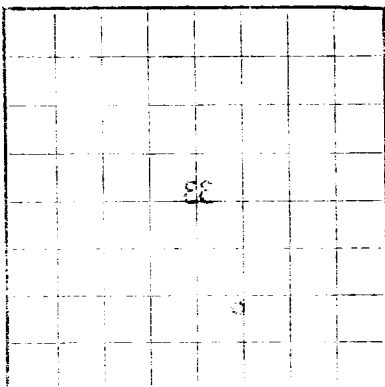
If gas well, cu. ft. per 24 hours **3,315 MCFD** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **5674 (9 days)****EMPLOYEES****Star Drilling Company**, Driller **D. L. Brogell**, Driller
R. E. McVay, Driller **E. Hinson**, Driller**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
0	2100 TD	2100 TD	Sand and shale
FROM—	TO—	TOTAL FEET	FORMATION

TOPS: Pictured Cliffs
1987'

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES



LOCATE WELL CORRECTLY

Company _____
Lessor or Trust _____
Well No. _____
Location _____
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 records _____
Signed _____
Date _____

The summary on this page is for the condition of the well at above date.
Commenced drilling _____
Finished drilling _____

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

No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____

IMPORTANT WATER SANDS

No. 1 from _____ to _____
No. 2 from _____ to _____

CASING RECORD

Size of casing _____
Weight of casing _____
Length of casing _____
Kind of casing _____
Amount of casing _____
Purpose of casing _____

HISTORY OF OIL OR GAS WELL

10-53004-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Size of casing _____
Weight of casing _____
Length of casing _____
Kind of casing _____
Amount of casing _____

PLUGS AND ADAPTERS

Heaving plug - Material _____
Adapters - Material _____

SHOOTING RECORD

Size of casing _____
Weight of casing _____
Length of casing _____
Kind of casing _____
Amount of casing _____

TOOLS USED

Rotary tools were used from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet

DATES

The production for the first 24 hours was _____
If gas well, cu. ft. per 24 hours _____
Rock pressure, lbs. per sq. in. _____
Gallons gas line per 1,000 cu. ft. of gas _____
Gravity, B.G. _____
Put to producing _____

EMPLOYEES

Driller _____
Driller _____

FORMATION RECORD

FROM _____ TO _____
TOTAL FEET _____
FORMATION _____