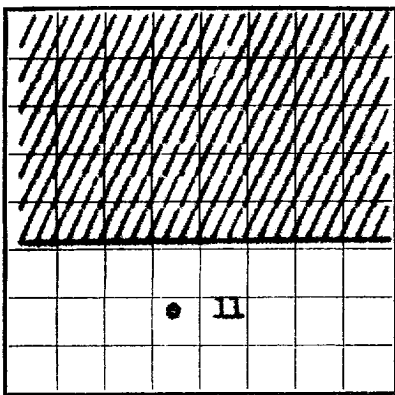
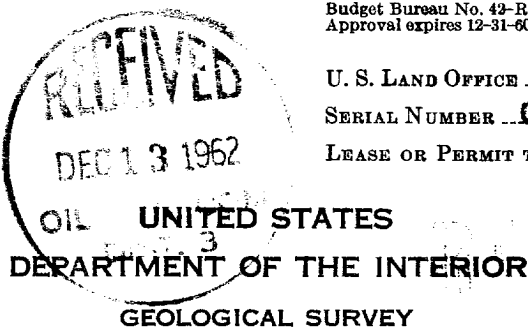




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 047017-A
LEASE OR PERMIT TO PROSPECT _____

LOG OF OIL OR GAS WELL

Company Southern Union Production Co. Address Box 808, Farmington, New Mexico
Lessor or Tract Angel Peak Field basin Lakota State New Mexico
Well No. 23 Sec. 11 T. 28N R. 11W Meridian N.M.P.M. County San Juan
Location 800 ft. N of 1 Line and 2510 ft. E of 4 Line of Section 11 Elevation 5634
(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 Thomas E. Fenne
Thomas E. Fenne Title Asst. Dir. Supt.

Date November 27, 1962

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

Commenced drilling October 23, 19 62 Finished drilling November 7, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6208 to 6216 G No. 4, from 6358 to 6388 G
No. 2, from 6230 to 6238 G No. 5, from _____ to _____
No. 3, from 6282 to 6328 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—	
8 5/8	261	8	160 BX	1350 cu. ft.	pump				
4 1/2	6498				pump				
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
8 5/8	261	160 BX	pump		
4 1/2	6498	1350 cu. ft.	pump		

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 6500 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

November 26, 19 62 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 10,005 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 2000

EMPLOYEES

John Raye _____, Driller F. V. Farrell _____, Driller
Wayne Hansen _____, Driller E. A. Dammall _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	790	790	Tertiary
790	1165	675	Cretaceous Sa. & Sh.
1165	1745	280	Fruitland Sa. & Sh, Coal
1745	1825	80	Pictured Cliff Sa.
1825	3330	1505	Law is Shale
3330	3450	120	Cliff House Sa.
3450	4110	660	Manafee Sa. & Sh.
4110	4450	340	Point Lookout Sa.
4450	5340	890	Mancos Sh.
5340	6110	770	Gallup
6110	6205	95	Greenhorn S h.
6205	6500	295	Dakota

FORMATION RECORD—Continued

