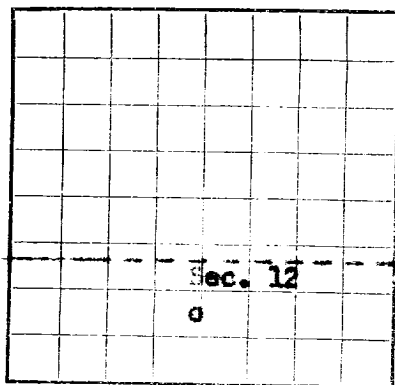




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF 080724-1
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Production Co. Address P. O. Box 800, Farmington, N.M.
Lessor or Tract ZACHRY Field Basin Dakota State New Mexico
Well No. 19 Sec. 12 T. 28N R. 10W Meridian N.M.P.M. County San Juan
Location 790 ft. N. of S. Line and 1150 ft. E. of W. Line of Section 12 Elevation 5162
(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

Gilbert D. Moland, Jr.
Gilbert D. Moland, Jr.
Drilling Superintendent

Date January 6, 1962

Title

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

Commenced drilling November 22, 1961 Finished drilling December 13, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5580 to 5594 G No. 4, from 6520 to 6548 G
No. 2, from 6602 to 6608 G No. 5, from 6460 to 6466 G
No. 3, from 6628 to 6648 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	24.00	3rd.	J-55	281					
4-1/2	10.50	8rd.	J-55	6705	Baker				
1-1/2	2.90	10rd.	J-55	8518					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	271 RKB	150 sacks	Circ.		
4-1/2	6715 RKB	1425 cu. ft.	Circ. (1st stage cut w/425 cu. ft. 50-50		
1-1/2	6528 RKB	Posmix. Stage collar 2205.57 cu. ft. 2nd stage cut. w/1000 cu. ft. 20% Diacel #1)			

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
Perf. 4 shots/ft. 5580-5594, 6602-6608, 6628-6648. Sand water frac w/30,000# 20-40 sand. and 31,688 gal. water., perf. 4 shots/ft. 6520-6548. Sand water frac w/30,000# 20-40 sand and 30,250 gal. water. Perf. 3 shots/ft. 6460-6466. Sand water frac w/20,000# 20-40 sand and 21,000 gal. water.						

TOOLS USED

Rotary tools were used from 0 feet to 6708 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

January 1, 1962 Put to producing _____, 1962

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 4175 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. CAOP = 6291 MCPD

EMPLOYEES

Gardner Bros. Drilling Co Driller W. M. Johnson Driller
R. L. Davis Driller C. R. Anderson Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surf.	1100	1100	Unsatich
1100	1050	750	Kirtland
1850	2060	210	Fruitland
2060	2170	110	Pircutred Cliffs
2170	3645	1475	Lewis
3645	4650	1005	Mesa Verde
4650	6400	1750	Mancos
6400	6711	311	Dakota

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

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.

10-43004-2 U. S. GOVERNMENT PRINTING OFFICE

FROM-	TO-	TOTAL FEET	FORMATION
			FORMATION RECORD
			EMPLOYEES
			TOOLS USED
			NOTES
			MUDLOGGING AND TEMPERATURE RECORD