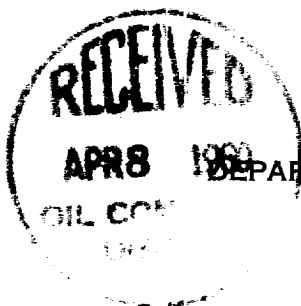


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF 078863
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Western Natural Gas Company Address 823 Midland Tower, Midland, Texas
Lessor or Tract Krause-Federal Field Undesig. Gallup State New Mexico
Well No. 1 Sec. 32 T. 28N R. 11W Meridian NMPM County San Juan

Location **12**, **790** ft. **N** of **1** Line and **390** ft. **E** of **4** Line of **Sec. 32** Elevation **6035** GL

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 Woodward**

Signed _____ Paul Woodward

Date Sent April 14, 1960 _____ OFFICE MANAGER

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

Commenced drilling **Dec. 16**, 19**59** Finished drilling **Jan. 11**, 19**60**

OIL OR GAS SANDS OR ZONES

gas pumps (gas) present? (Density gas by G) Bottoms: 514 fca (4533'05.) 5 3/8.

No. 1, from 5848 to 5862 No. 4, from 5867 to 5877

No. 2, from 1000-2000 to 1000-2000; No. 5, from 1000-2000 to 1000-2000.

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 _____

ENCLOSING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From To	Purpose
10 3/4"	32.75#	8	H-40	198'	Guide			Surface
7"	23#	8	J-55	629'	Float			Promotion

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4" 209		220 w/27 cal	Pump & Plug	-	-
7	6640'	1st stage - 150 ex	Pump & Plug	-	-
		27 gal & 12 1/2 Gilsonite/sk.			
		2nd stage - 90 ex 50-50	pozzix		
		"g" w/27 gal			

PLUGS AND ADAPTERS

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----

Adapters—Material	Size
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SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 6640 feet, and from _____ feet to _____ feet

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

DATES

-----**4-1**-----, 19--**60** Put to producing -----**3-2**-----, 19--**60**

The production for the first 24 hours was 130 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 40.0 at 60° F.

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1842	1842	Sandstone, Shale & Coal
1842	1973	131	Sandstone
1973	4565	2592	Sandstone & Shale
4565	5440	875	Shale
5440	6005	565	Sandstone & Shale
6005	6245	245	Shale w/Sandstone streaks
6245	6290	45	Limestone w/Shale Streaks
6290	6326	36	Shale
6326	6640	314	Sandstone w/Shale streaks
(Geological Tops listed on back of page)			

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GEOLOGICAL SURVEY

RECEIVED
JAN 10 1964
U.S. AIR FORCE

HISTORY OF OIL OR GAS WELL

[illegible]