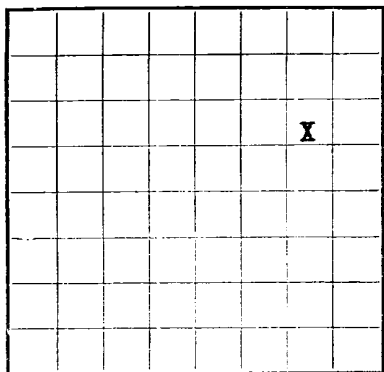


U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 98, 078478

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Western Natural Gas Address 211 1/2 W. Main, Farmington, New Mexico
Lessor or Tract Marron Field So. Blanco P.C. State New Mexico
Well No. 5 Sec. 23 T. 27N R. 8W Meridian NMPM County San Juan
Location 1750 ft. XX of N Line and 890 ft. XX of E Line of Section 23 Elevation 5984 G.L.
(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 Calvin M. Rayes
Date 11-11-58 Title Petroleum Engineer

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

Commenced drilling 9-20, 19 58 Finished drilling 10-13, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2217 to 2300 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 395 to 417 No. 3, from 780 to 810
No. 2, from 515 to 538 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" 25.65#	8	Gr B Smls	122'	None					Surface
5 1/2" 15.5#	8	J-55	2331'	Auto float collar & reg. path guide shoe			2224'	2268'	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	122'	90	Pump & Plug	- - -	- - -
5 1/2"	2331'	150	Pump & Plug	- - -	- - -

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 2331 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ 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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____ Absolute open flow - 3,573 MCFPD on 3 hour flow test across 3/4" choke.

Fifteen day pressure build-up was 709 psig. EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	540	540	Sd w/sh stringers
540	650	110	Shale
650	1520	870	Sd w/sh stringers
1520	1755	235	Sh w/sd stringers
1755	1910	155	Shale
1910	2217	307	Sh w/sd & coal stringers
2217	2300	83	Sand
2300	2331	31	Sh
			Top Pictured Cliffs 2218'

[illegible]

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

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Perforated 5 $\frac{1}{2}$ " O.D. casing from 2224-2246' & 2256-2268' w/4 jet shots/ft. Treated well w/60,000# of 20-40 mesh sand & 40,320 gals water w/200 gals mud

acid ahead. Broke down formation w/2100#. Treating pressure ranged from 1800-2000#. Used 120 ball sealers. Flushed w/2226 gals water @ flushing pressure

of 2000#. Overlashed w/294 gallons. Average injection rate was 65 BPM. After flowing & cleaning well approx 40 hours, measured volume w/pilot tube @

1/34 MCFPD. Ran 90 fts (2232.00') of new 1" nominal 1.7# B.W. BIK 115 std
thd line pipe for siphon line w/10' peris on btm ft & 1 1/4" X 1" landing joints.

Shut-in well for 15 days before conducting Initial Potential test. On

10-28-58 well was potentialled for an absolute open flow of 3,573 MCF/D. Waiting on pipe line connection.

Waiting on pipe line connection.