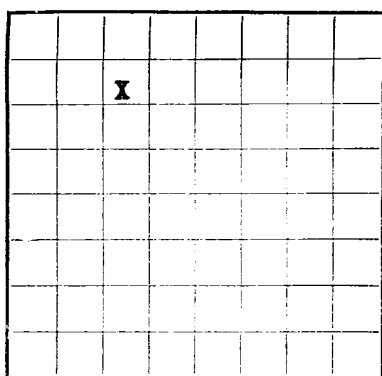


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078480
LEASE OR PERMIT TO PROSPECT

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 Hammond Field So. Blanco P.C. State New Mexico
Well No. 4 Sec. 26 T. 27N R. 8W Meridian NMPM County San Juan
Location 990 ft. XX of N Line and 1650 ft. XX of W Line of Sec. 26 Elevation 5962 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. RaynesDate 11-11-58Title Petroleum Engineer

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

Commenced drilling 9-6, 19 58 Finished drilling _____, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2102 to 2166 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 390 to 400 No. 3, from 765 to 780
No. 2, from 420 to 495 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*Smals	95.5'	None				Surface
5 1/2"	15.5#	8	J-55	2200.15'	Ante float collar & Reg. int. guide shoe		2106	2164	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	95.5'	70	Pump & Plug	- - -	- - -
5 1/2"	2200.15'	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 2201 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 - 9,702 MCFPD on 3 hr flow test across 3/4" choke.

Fifteen day pressure build-up was 774 psig

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Sd w/sh stringers
270	350	80	Shale
350	620	270	Sd w/sh strks
620	735	115	Shale
735	1640	905	Sh w/sd stringers
1640	1815	175	Shale
1815	2102	287	Sh w/sd & coal stringers
2102	2182	80	Sand
2182	2200	18	Sh w/sd strks
			Top Pictured Cliffs 2100'

[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.

Perforated 5" O.D., casing from 2106-2122', 2126-2138' & 2142-2164' w/4 jet holes/
t. Treated with w/60,000# of 20-40 mesh sand & 40,300 gals water in three stages
as follows:

Last Stage - Broke down formation w/ 2900# w/ 200 gals mud and acid ahead. Treated w/ 47,000# sd @ 1 1/2"/gal. Treating pressure was 1600#.
 Infected 15 ball sealers.

Infected 75 ball sealers.

Third Stage - broke down formation w/ 3200#. treated well w/ 1,000# oil w/ bat.
Leaking pressure ranged from 2050-2600#. flushed w/ 218/ bat's water. Overflushed

Approx 96 hours, measured volume w/ pitot tube @ 6,078 MFTD. Landed 86 ft (2108.07)

of 1" nom. 1.7# 11 1/2 std thd & 1 1/2" X 1" landing jt @ 2127. 80' from bottom of hole 81' or

Killed well w/fresh water to weld screw-on type tubing head to casing to
top gas leak. Well came w/o sampling. Cleaned well to atmosphere. Shut-in

well for 15 days to wait on initial potential test. On 10-28-58 potential well

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

1894

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