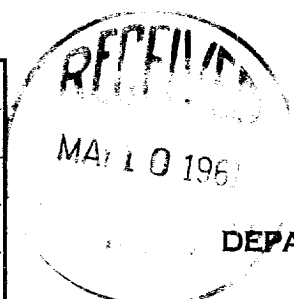


A 10x10 grid with the number 28 in the center and an 'x' at the bottom left.



U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF 078931-B
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Tenneco Corporation Address P. O. Box 1714, Durango, Colorado
 Lessor or Tract USA Glenn H. Callow Field Total State New Mexico
 Well No. 19 Sec. 28 T. 29N R. 13W Meridian N.M.P.M. County San Juan
 Location 330 ft. N. of S Line and 500 ft. E. of W Line of Section 28 Elevation 5864 GL
 (308 ft. S.) (100 ft. W.) (Detrick Base 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.

Date May 5, 1961 Title District Production Supt.

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

Commenced drilling March 22, 1961 Finished drilling March 31, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5626 to 5631 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 None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	140'	125	Two Plug	--	--
5-1/2"	5693'	240	Two 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 5693 feet, and from _____ feet to _____ feet

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

DATES Potential test: 4-17-61 - F/161 B0 in

----- May 5 -----, 1961 ----- Put to producing ----- April 17 -----, 1961 -----

The production for the first 24 hours was 161 barrels of fluid of which 100 % 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.

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	11	11	KB to ground level
11	956	945	Shale and sand stringers
956	1624	668	Brown shale
1624	1770	146	Sandstone
1770	3155	1385	Black shale with occasional sand stringers
3155	4370	1215	Sandstone and shale
4370	5584	1214	Black shale
5584	5693	109	Shaly and silty sands
<u>Electric Log Tops</u>			
			Kirtland 236
			Farmington Sand 300
			Fruitland shale 795
			Pictured Cliff 1565
			Lewis Shale 1710
			Mesaverde 2145
			Mancos Shale 4350
			Gallup 5250
			Total Depth 5693

FORMATION	TOTAL FEET	TO-	FROM-
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Well spudded 12:30 p.m. 3-22-61. Drilled 12-1/4" hole to 141', and 7-7/8" rat hole to 500'. Ran 8-5/8" 24#, J-55 casing and set at 141'. Cemented with 125 sacks cement and circulated to surface. WOC 8 hours. Pressure tested casing to 650 pounds for 30 minutes. Pressure held o.k. Drilled 7-7/8" hole to 5693'. Ran RS-Resistivity Log, Gamma-Ray Log, and MicroLog. Ran 5-1/2", 14#, J-55 casing and set at 5693'. Stage collar set at 1748'. Cemented in two stages. First stage: cemented with 140 sacks 1:1 Dixmix 6% gel and 50 sacks 1:1 Dixmix 2% gel. Plug down on first stage 8:45 p.m. 3-30-61. WOC 2 hours. Second stage: cemented with 50 sacks 1:1 Dixmix 6% gel. Plug down on second stage 11:30 p.m. WOC 24 hours. Pressure tested casing at 3000 pounds from 30 minutes. Pressure held o.k. Potential test 4-12-61. Flowed 161 barrels oil in 24 hours on 26/64" choke. TP 175, CP 350, GOR 1172.