

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

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Tennessee Gas Transmission Address P. O. Box 1714, Durango, Colorado  
Lessor or Tract Tom Bolack Gas Unit A 1 Field Undes. Dakota State New Mexico  
Well No. 1 Sec. 2 T. 27N R. 11W Meridian NMPM County San Juan  
Location 790 ft. N of N Line and 1750 ft. W of E Line of Section 2 Elevation 5961  
(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 J. J. Iacey Title District Engineer  
Date August 24, 1960

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

Commenced drilling June 15, 1960 Finished drilling June 29, 1960OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from 5775 to 5820 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 6302 to 6429 (G) No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
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 \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9-5/8	40#	8 rd.	CF&I	211'	Guide		--	--	Surface
7"	23#	8 rd.		1791	Float				
7"	20#	8 rd.		4671	--				

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	224	135	two plug	--	--
7	5474	375	two plug	--	--

## PLUGS AND ADAPTERS

Leaving 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 \_\_\_\_\_ feet to 3490 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

August 23, 1960 Put to producing July 21, 1960  
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 15,500 MCF (CAOF) Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. 1937 Condensate Ratio = 20 bbl/MCF

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	325	325	Sand & Shale Stringers
325	2750	1925	Shaley Sand
2750	2810	60	Sandy Shale
2810	3360	550	Silty Sand
3360	3510	150	Sand
3510	4530	1020	Silty Sand
4530	5400	370	Shale
5400	5900	500	Sand and Shale Stringers
5900	6210	310	Shale
6210	6400	290	Sand and Shale
Electric Log Tops:			
			Pictured Cliffs 2740
			Lewis Shale 2810
			Mesa Verde 3360
			Mancos 4530
			Gallup 5400
			Lower Mancos 5821
			Greenhorn 6207
			Dakota 6321

### FORMATION RECORD—Continued

[illegible]

### HISTORY OF OIL OR GAS WELL.

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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.

Spud 12-1/4 hole 6-14-60 and drilled to 235'. Ran and cemented 211' 9-5/8" OD, 40# N-80 LTC casing. Set at 224' and cemented with 135 sacks regular cement. Circulated cement to surface. WOC 24 hrs. Pressure tested casing at 500 psi for 30 minutes.

Drilled 8-3/4" hole with mud to TD, 6490'. Ran ES-Induction, Sonic-Gamma Ray logs. Ran and cemented 7" OD, 20# & 23# J-58 casing; set at 6474. Float collar at 6438' and stage collar at 1932'. Cemented bottom stage with 300 sxs 50-50 Pozmix. Cemented top stage with 75 sxs 50-50 Pozmix. WOC 24 hrs. Tested casing with 2400# for 30 minutes; held O.K.

Perforated casing 6425-29. Seabbed for production. Perforated casing 6302-10, 6324-29, 6376-92, 6397-6402, 6411-16. Sand-water frac with 103,000 gallons water and 170,000 # 20-40 sd. Set permanent production at 6240'.

Perforated casing 5306-20', 5775-85'. Squeezed perfs with 50 axs Latex. Pressure tested casing. Squeezed 50 axs Latex cement 5824-5543. Perforated 5806-20', 5775-85'. Sand-oil frac with 55,000# sd and 37,600 gal oil. Swabbed Gallup oil zone. Ran parallel tubing strings and latched long string into packer.

Dakota potential: 3 hr flow, 3/4 choke. Estimated 8736 MCFPD. AOF = 15,500 MCFPD. Condensate ratio = 20 bbls/MCF.

Swabbing Gallup to recover lost oil.