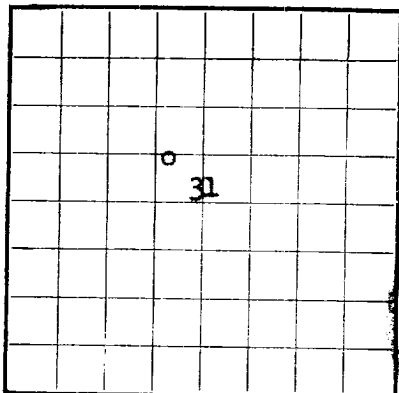




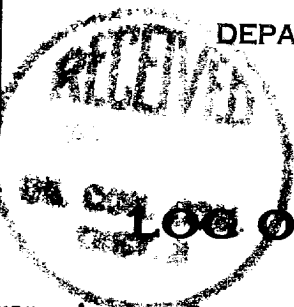
LOCATE WELL CORRECTLY

U. S. LAND OFFICE Ute Mountain
SERIAL NUMBER Tribal Lands
LEASE OR PERMIT TO PROSPECT
Contract #14-20-604-90

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company Tennessee Gas Transmission Co. Address P. O. Box 1772, Casper, Wyoming
Lessor or Tract Ute Mountain Tribe "B" Field Verde Gallup State New Mexico
Well No. 11 Sec. 31 T. 31N R. 15W Meridian N.M.P.M. County San Juan
Location 2060 ft. N.W. of N. Line and 2080 ft. E. of W. Line of Section 31 Elevation 5521 'K.B.
(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 PATTERSON Day
Title District Superintendent

Date December 18, 1957

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

Commenced drilling August 8, 1957 Finished drilling September 1, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1728' to 1806' 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 _____ 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—	
10-3/4"	32.75	8R	CF&I	86.30	Belled Bottom				
7"	20	8R	Long Star	1716.53	Howee				
5-1/2"	14	8R	Long Star	98.70	Open Bottom	Not cemented.			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	99.80	75	One Plug		
7"	1728	100	Two plug		
5-1/2"	1727-1806	Set on bottom as slotted liner.		Not cemented.	

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 2010 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 18, 1957 Put to producing October 15, 1957

The production for the first 24 hours was 18.64 barrels of fluid of which 100 % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, 39°

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Craig, Driller Turner, Driller
Spraberry, Driller Phillips, Driller

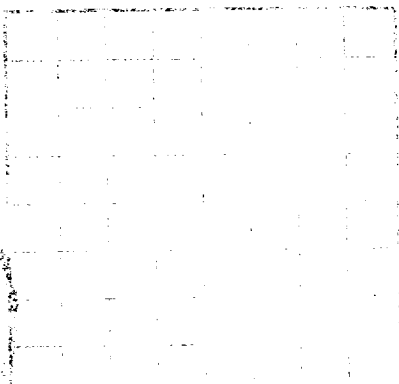
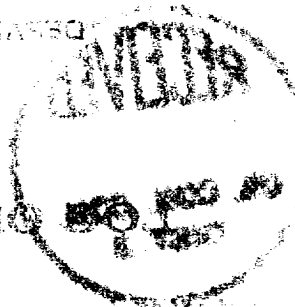
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	11	11	K.B. to ground level
11	500	489	Sandstone with shale & coal stringers
500	1748	1248	Shale with hard limey stringers
SCHLUMBERGER TOPS:			
		Mancos Shale - 500'	
		Gallup - 1748'	
CORE NO. 1	Gallup	from 1730'-1769'	Cored 39'. Recovered 38'.
1730 - 1741 1/2'	(14 1/2')		Shale, poker chip, black, carbonaceous. N.S.
1741 1/2 - 1750'	(5 1/2')		Shale, black, hard, carbonaceous, 1 and 2 vertical fractures throughout. N.S.
1750 - 1751 1/2'	(1 1/2')		Shale, black, hard, carbonaceous. No fractures. N.S.
1751 1/2 - 1754'	(2 1/2')		Lam. sand and shale, ss hard tite, fine to medium grain, very light stain and odor.
1754 - 1757'	(3')		Shale, hard, black, carbonaceous with streaks lime fossil. N.S.
1757 - 1768'	(11')		Shale, hard black, carbonaceous with sand and lime fossil. partings. One vertical fracture entire length.
1768 - 1769'	(1')		Not recovered.

(cont'd on reverse side)

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



10/13/57. Potential 18.64 BOPD, 10/15/57.
of 3 jts. 5-1/2" 14#, J-E Lone Star casing (98.70'). Set on bottom. Recovered lead oil
open hole 1728'-1806' with 40,000# sand. Ran slotted liner from 1707' - 1806' consisting
rate from 2010' to 1806'. Ran DST No. 1, 1807'-2010'. Recovered 120' oil. Sand frac
Ran simultaneous radiation log from 2010' to surface. Plugged back with gravel & hydro-
30 minutes. Drilled cement from 1700-1730'. Core with crude oil from 1730' to 2010'.
sacks. Landed casing at 1728'. 20 hours. Pressure tested casing to 500 psi for
J-E Lone Star casing. Total length casing left in well 1716.53'. Cemented with 100
78'. Top Mancos shale 500', top Gallup 1748', estimated. RU and ran 53 jts. 7" J-55
hole. Drilled 8-3/4" hole from 104' to 1730'. Ran Schlumberger E.G. log from 1618' to
sacks. W.O.C. 20 hours. Pressure tested casing to 500 psi for 30 minutes. Pressure
H-40 C.F.R.I., casing 86.30'. Landed casing at 99.80'. Cemented to surface with 75
Spudded 1:30 A.M. 8/18/57. Drilled 13-3/4" hole to 104'. Ran 3 jts. 10-3/4" 32.75#

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

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

MINING AND MINERAL RESOURCES

FROM	TO	TOTAL FEET	FORMATION
1769 - 1783 1/2	1770 - 1810	40	Cored 41'. Recovered 40'. Shale, black, hard, carbonaceous with lime partings scattered throughout. Vertical fractures 1773' - 1775' 1775 1/2 - 1776' 1777 - 1779' Sandstone with shale partings. Sandstone very fine grain tight, bleeding oil and gas. Shale, carbonaceous, vertically fractured, odor on fresh break. (7') Reworked sand and shale, hard, tight. N.S. (12 1/2')
1790 1/2 - 1797 1/2	1797 1/2 - 1809	12	Cored 40'. Recovered 40'. Shale, black, calcareous, scattered pyrite inclusions (40') scattered throughout. 1 vertical fracture at 1875'. Sand increases from 10% estimate at 1890' to an estimated 40% at 1890'. Appears slightly damp 1870'-1890'. No apparent show. 1890'.
1850 - 1890	1890 - 1930	40	Cored 40'. Recovered 40'. Shale, black, calcareous with sand laminations throughout. Sand medium grain, hard, tight, no show. Sand varies from 10 to 40% throughout. 1904-1908' appears to bleed slightly after drying. One vertical fracture 1900'-1901'. Shale, black, calcareous with sand laminations throughout. Estimate 10-20% sand maximum. Core appears slightly damp after drying. W.B. (21') Sandstone, fine grain, hard, tight, very shaley. No show. No fractures.
1928 - 1930	1930 - 1931	1	Cored 40'. Recovered 40'. Shale, black, calcareous. No fractures. No show. (1') Sand, grey, medium to coarse grain, glauconitic, slightly shaly, bleeding gas. No show of oil. No fractures. (3') Shale, black, calcareous, carbonaceous with thin medium grain sand lenses throughout. Estimate sand content 10-30%. Bleeding gas along bedding planes. 6" bentonite streak at 1961 1/2 - 1962' at 1963 1/2 - 1964'.
1931 - 1934	1934 - 1970	36	Cored 40'. Recovered 40'. Shale, black, with thin, (2'-3" thick) dense crystalline lime. No show. No fractures. (40')
1970 - 2010	2010 - 2010	0	Cored 40'. Recovered 40'. Shale, black, with thin, (2'-3" thick) dense crystalline lime. No show. No fractures. (40')