

A 10x10 grid with a dot at (8, 4) and the number 31 at (5, 5).

LOCATE WELL CORRECTLY

U. S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT
Contract No. 14-20-104-90

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company INTERSTATE GAS TRANSMISSION COMPANY Address P. O. Box 1772, Casper, Wyoming
Lessor or Tract Ute Mountain Tribe "E" Field Verde Gallup State New Mexico
Well No. 8 Sec. 31 T. 31N R. 15W Meridian T8M County San Juan
Location 1980 ft. N of 1 Line and 660 ft. W of 8 Line of Section 31 Elevation 5391.52'
(Derrik 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.

Date _____ Title _____

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

Commenced drilling March 30, 1957 Finished drilling April 25, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1770 to 1870 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 480' to 522' 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—	
6 5/8"	28	8 1/2	Star	28.80	belled bottom				
6 5/8"	24	8 1/2	Long Star	50.31					
6 1/2"	14	8 1/2	Long Star	809.63	Howan				
6 1/2"	14	8 1/2	Star	976.82					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	98.85'	75	One plug		
5 1/2"	1770.13'	100	Two plug		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 3' feet to 1870' 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.

12

Gravity, °Bé. 100

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
Bond....., Driller
Greener....., Driller
....., Driller
Parker....., Driller
Gaffey....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
GEOMORPHICAL SURVEY 1978:			
0'	2'	8'	Kansas Shale 522'
8'	522'	514'	Gallup 1785' (estimated)
522'	1785'	1263'	Kelly bushing to ground level.
1785'	1870'	85'	Sand and shale with coal stringers.
			Shale with hard lime stringers.
			Shale and sandy shale with streaks lime stone and sandstone stringers.
Core No. 1	1771' to 1792'	Gallup formation - recovered 21'	
1771'	1792'	21'	Shale, poker chip, with occ. fn. grn. S.S. partings. Fossiliferous material scattered throughout. Slightly reworked in bottom 10'. 1 vertical fracture 1771' - 1781' and 1790' - 1792'.
Core No. 2	1792' to 1805'	Gallup formation - recovered 12'	
1792'	1797'	5'	Shale with thin sand lam., S. S. v. fn. grn., one vertical fracture entire length. No. show.
		(over)	

[OVER]

18-43004-1

The following information is being furnished to you for your information and use only. It is not to be used for any other purpose. It is not to be used for any other purpose. It is not to be used for any other purpose.

Spud at 3300 ft. Drilled 12 1/4" hole to 100'. Run 9 joints of 8 7/8" casing cemented
J-55, and H-40, gravel and loose sand casing. Landed casing at 99' 85". Cemented
8 7/8" casing with 70 ex. Circulated cement to surface. Drilled 26 hours. Pressure
tested casing and set to 500 psi for 30 min., pressure held. Drilled 2 7/8" hole
from 100' to 1770'. Run resistivity survey from 1055' to 100'. Log tops: Lamson
shale 172', casing formation 1725' (estimated). Run 2 joints of 8 7/8" casing cemented.
Lone star casing (803.63') run 12 joints of 8 7/8" casing cemented with 100 ex. Drilled 26 hours.
Landed casing at 1770.13'. Cemented with 100 ex. Drilled 26 hours. Drilled cement.
Cored from 1771'-1870' using crude oil for drilling fluid. Lab tested. Cemented
down casing 424 100,000 sand in 65,000 Gallons crude oil. Recovered lost oil

2/27/57. 2-16/25/7. 12 PM.

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 pings 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

FROM-	TO-	TOTAL FEET	FORMATION
1797'	1799'	2'	ls., sd. and sh., s.s. very fr. grn. tile, more sand than above. 511 ft. show of ss.
1799'	1804'	56'	in sandstone. shaly, hard, sandy, removed, no show. no fractures. not recovered.
1805'	1805'	0'	
1809'	1809'	4'	shale, black, hard, with thin sandstone lns. vertical fractures scattered throughout.
1809'	1818'	9'	shale, black, with thin sandstone lns. vertical fractures. 2" bentonitic streak at 1817'.
1819'	1827'	8'	shale with removed sandstone lns. calcite filled western fractures scattered throughout. shale as above with thickening of sandstone lns. sandstone, hard, light with shale lns. calcite filled. removed fractures. no show.
1827'	1831'	4'	
1831'	1838'	7'	
1838'	1845'	7'	
1845'	1870'	25'	Caliche formation covered 25'
1845'	1861'	6'	sandstone coarse to fine grain with well rounded black chert fragments and small inclusions. light scattered blebbing. vertical fractures. shale with removed sandstone lns. and inclusions grading to solid shale in bottom. removed thinning up to show, no fractures.
1861'	1870'	9'	
1870'	1870'	0'	