

MULTI-POINT PRESSURE TEST FOR GAS WELLS

Well No. Formation Pictured Cliff County Rio Arriba
 Initial Ann. Special Date of Test 1-25-57
 Company San Juan Gas Corp. Lease Well No. 24-8
 Loc. P Sec. 24 T. 25 Rge. 2 Purchaser
 Casing Wt. I.D. Set at Perf. To
 Tubing Wt. I.D. Set at Perf. To
 Day: From To L x G .680 -GL Bar. Press. 12
 Producing Thru: Casing Tubing 2 1/2 Type Well Single
 Date of Completion: Packer no Reservoir Temp.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps

	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.						943		943		
2.		3/4	250		54	250	54	270		1
3.										
4.										
5.										

FLOW CALCULATIONS

	Coefficient (24-Hour)	$\sqrt{h_w P_F}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.026 psia
1.	12.3650	882	1.4050	.933	1.041	3.95	
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 955 P_c 942.03

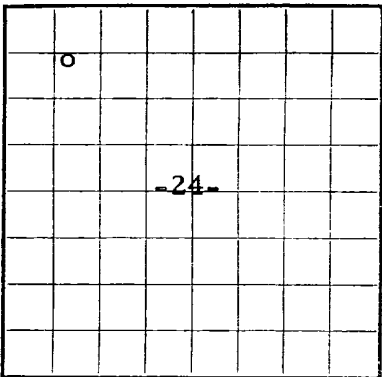
	P _w	P _c	(P _c - P _w) ²	Cal. P _w	F _{pc}
1.					
2.					
3.					
4.					
5.					

Absolute Potential: 4.26 MCFPD; n .85/1.284
 COMPANY Pacific Northwest Pipe Line Corporation
 ADDRESS 1054 West Broadway, Albuquerque, New Mexico
 NAME and TITLE E. A. Wagner - Well Test Engineer
 COMPANY
 3-San Juan Gas Corp.-c/o R.C. Larson
 1100 Calwood Building - Okla. City, Okla.
 L.G. Trub
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SERIAL NUMBER M. M. 01991
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company San Juan Gas Corporation Address 1716 1st National Bldg., Tulsa, Okla.
Lessor or Tract _____ Field Cavilan State New Mexico
Well No. 44-C Sec. 24 T. 25NR R. 2E Meridian New Mexico Principal Rio Arriba
Location 336' ft. N. of N. Line and 361' ft. E. of W. Line of Section 24 Elevation 7439'
(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 _____

Date November 30, 1956 Title Vice President
The summary on this page is for the condition of the well at above date.

Commenced drilling July 6, 1956 Finished drilling July 12, 1956

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3472' to 3563' G No. 4, from _____
No. 2, from _____ to _____ No. 5, from _____
No. 3, from _____ to _____ No. 6, from _____

IMPORTANT WATER SANDS

No. 1, from 528' to 645' No. 3, from 1837' to _____
No. 2, from 733' to 887' No. 4, from 924' to 1029'

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8-5/8</u>	<u>29</u>	<u>8</u>	<u>C.F.L.</u>	<u>78'</u>	<u>Halliburton</u>	<u>None</u>			<u>Surface</u>
<u>5-1/2</u>	<u>14</u>	<u>8</u>	<u>C.F.L.</u>	<u>1000'</u>	<u>Halliburton</u>	<u>None</u>	<u>9500'</u>	<u>9910'</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>78'</u>	<u>50</u>	<u>Halliburton</u>		
<u>5-1/2</u>	<u>3580'</u>	<u>150</u>			

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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to 3590 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
November 30, 56
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. 8,452,000

EMPLOYEES

_____, Driller _____, Driller
H. H. Lerrow, Driller _____, Driller
H. A. Pitts

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>Surface</u>	<u>665</u>	<u>665</u>	<u>Broken Coarse sandstone and shale.</u>
<u>665</u>	<u>734</u>	<u>69</u>	<u>Shale.</u>
<u>734</u>	<u>1112</u>	<u>378</u>	<u>Broken Sandstone and Shale.</u>
<u>1112</u>	<u>1202</u>	<u>90</u>	<u>Shale with thin sandstone streaks.</u>
<u>1202</u>	<u>1740</u>	<u>538</u>	<u>Large sub-angular sandstone.</u>
<u>1740</u>	<u>1963</u>	<u>223</u>	<u>Shale.</u>
<u>1963</u>	<u>2437</u>	<u>474</u>	<u>Broken sandstone and shale.</u>
<u>2437</u>	<u>2508</u>	<u>71</u>	<u>Shale.</u>
<u>2508</u>	<u>2692</u>	<u>184</u>	<u>Broken sandstone and shale.</u>
<u>2692</u>	<u>2926</u>	<u>234</u>	<u>Shale.</u>
<u>2926</u>	<u>2973</u>	<u>47</u>	<u>Sandstone.</u>
<u>2973</u>	<u>3078</u>	<u>105</u>	<u>Shale.</u>
<u>3078</u>	<u>3087</u>	<u>9</u>	<u>Sandstone.</u>
<u>3087</u>	<u>3118</u>	<u>31</u>	<u>Shale.</u>
<u>3118</u>	<u>3394</u>	<u>276</u>	<u>Sandstone - Ojo Alamo.</u>
<u>3394</u>	<u>3472</u>	<u>78</u>	<u>Broken Coal - Fruitland formation.</u>
<u>3472</u>	<u>3568</u>	<u>96</u>	<u>Sandstone - Pictured Cliffs.</u>
<u>3563</u>	<u>3590</u>	<u>27</u>	<u>Lewis shale.</u>

UNITED STATES
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GEOLOGICAL SURVEY

not 4-4/8 inches casing to bottom on July 4, 1956. Drilled 7-7/8 inch hole to total depth of 3590' on July 11, 1956. Set 5-1/2" 16 pounds J-55 casing with 150 sacks cement on July 11, 1956. Ran Gamma Ray log to total depth of 3567'. Drilled out cement from 3530' to 3567'; perforated below 4-was running for 10 1/2 hours. Tested with Halliburton pump truck pumped in at 100 pounds per 100 pound pressure; equivalent of 20 sacks cement pumped in at 1000 pounds. 1200 sacks cement - 1400 pounds. Drilled out cement to 3527'. Ran open end tubing and washed well at 100,000 water test of 100 gal test 1000 casing pressure. Halliburton T-10 trucks; pumped in 20,000 pounds of 10/20 sand and 1000 gallons water. Break down with one truck 20,000 pounds; tested to 1000 psi per minute at 1000 to 2000 pounds pressure. 2000 lbs in pressure. Run 7' open tubing to 3507'. Washed well in through tubing.

HISTORY OF OIL OR GAS WELL

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