

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
JUL 25 1985OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 6-19-85			
Company Amoco Production Co.				Connection Northwest Pipeline Co.			
Pool Basin				Formation Dakota			
Completion Date 10-31-85		Total Depth 8981		Plug Back TD 8730		Elevation 6971 GR	
Csg. Size 4,500		Wt. 11.6		Set At 4000		Well No. 103	
Thg. Size 2.375		Wt. 4.7		Set At 1.995		Well No. 103	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple commingle				Packer Set At 8500		County Rio Arriba	
Producing Thru tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico	
L		H		Gg		Taps	
%		CO ₂		%		N ₂	
%		H ₂ S		Prover		Meter Run	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI	7 days						
1.	2.375	.750					3 hr
2.							
3.							
4.							
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		88	1.000	.9258	1.009	1016
2.							
3.							
4.							
5.							
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl		
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg		
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX		
3.					Specific Gravity Flowing Fluid _____ XXXXX		
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.		
5.					Critical Temperature _____ R _____ R		
P _c 943 P _c ² 889249					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0130$		
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0098$		
1		107	11449	877800			
2							
3							
4							
5							
Absolute Open Flow 1026 Mcfd @ 15.025					Angle of Slope @ _____		Slope, n .75
Remarks Would not flare. Heavey H2O							
Approved By Division		Conducted By: B+R Seivices		Calculated By: JJ Barnett		Checked By: 82	

APPLICATION FOR MULTIPLE COMPLETION

Operator		County		Date
Northwest Pipeline Corporation		Rio Arriba		10-28-86
Address		Lease		Well No.
P.O. Box 90 - Farmington, NM		Rosa Unit		103
Location of Well	Unit	Section	Township	Range
	G	10	31N	4W

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Undes. Gallup		Basin Dakota
b. Top and Bottom of Pay Section (Perforations)	7605'-7994'		8570'-8662'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production ☒ Actual ☐ Estimated Oil Bbls. Gas MCF Water Bbls.	I.P. Test 10-06-86 Choke Vol.=1066 MCF/D	RECEIVED OCT 30 1986 OIL CON. DIV. DIST. 3	I.P. Test - N/A Choke Vol. - Well is logged

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

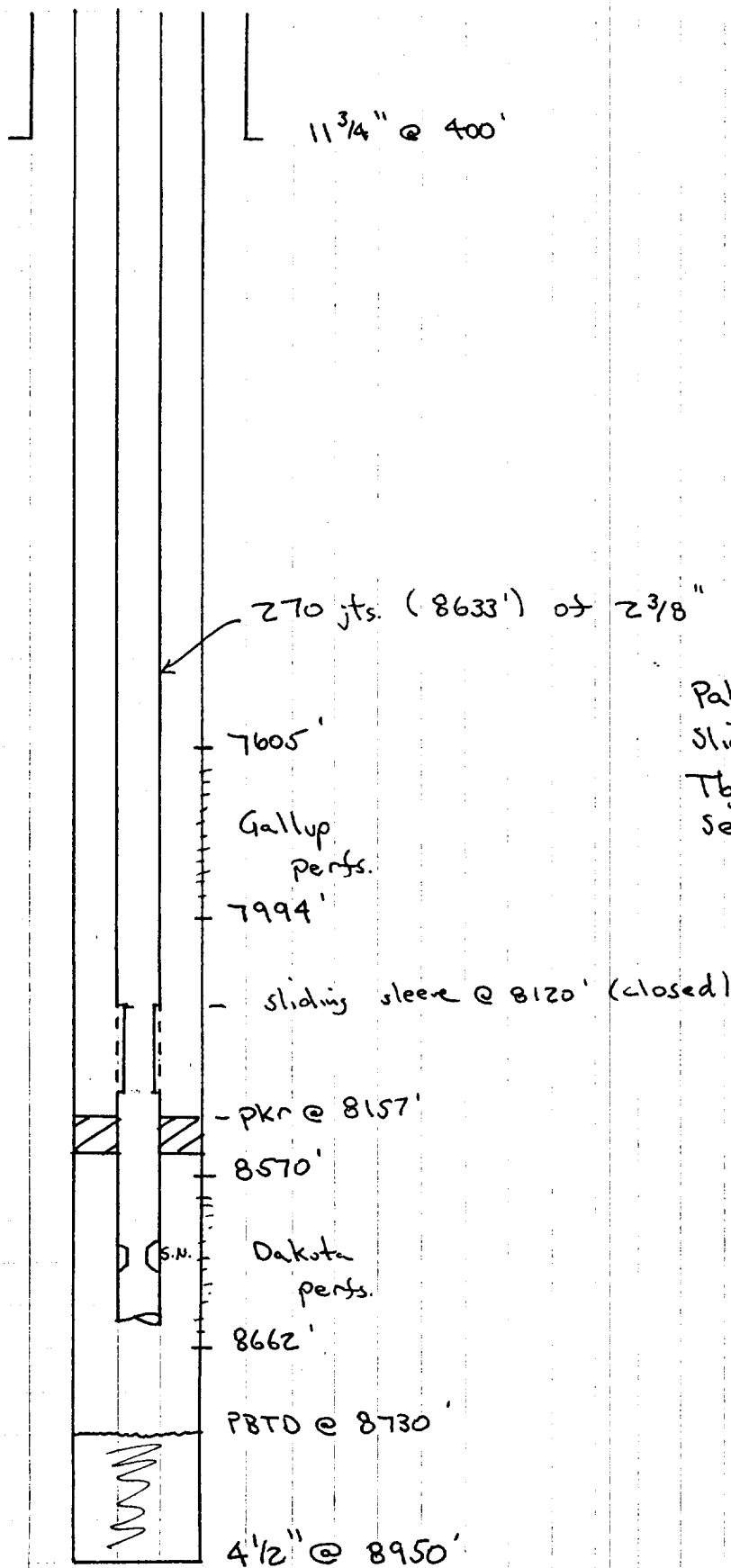
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Mike Turnbaugh Title Senior Engineer Date 10-28-86

(This space for State Use)
Approved by Original Signed by FRANK T. CHAVEZ Title SUPERVISOR DISTRICT 3 Date NOV 30 1986

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Rosa Unit #100 DK/Gally



Packer @ 8157'
sliding sleeve @ 8120'
Tbg. Landed @ 8633'
seating nipple @ 8608'

R-4-W

1	2	3	4	5	6	7	8	9	10
32.83	42.82	42.93	43.21	43.37	43.32	43.26	43.21	43.20	43.23
5	Amoco		Mitchell Energy Amoco		Amoco		TURNER		TURNER
32.61	6		5		4		3		2
32.69	(2)		(2)		(2)		(1)		(1)
32.75	078890		078890		078890		078891		078891
Mitchell Energy Amoco		Amoco	Mitchell Energy Amoco		Amoco		Mitchell-Amoco		Amoco
32.81	2								86
32.82	7		8		9		10		12
32.92	(2)		(3)		(3)		(3)		(4)
32.97	078890		078888		078888		078888		078887
Amoco		Mitchell Energy Amoco	Amoco		Mitchell Energy Amoco		Amoco		Mitchell-Amoco
33.03	2		(6)		(5)		(5)		(5)
33.08	3		17		16		15		14
33.14	4								
33.19	078899		078889		078892		078892		078887
Mitchell-Amoco		Amoco	Mitchell-Amoco		Amoco		Mitchell-Amoco		Amoco
33.24	2		(6)		(7)		(7)		(7)
33.29	3		20		21		22		23
33.33	4						33		
33.38	078889		078889		078893		078893		078887
Mitchell-Amoco		Mitchell-Amoco	Amoco		Mitchell-Amoco		Amoco		Mitchell-Amoco
33.42	33.42								
33.43	193411-20-61								
33.44	Shor Allen								
33.45	43 NP								
33.46	798310								
33.47	798352								
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34.00									

3174

ROSA UNIT
WORKING INTEREST OWNERS

The Wiser Oil Company
905 Oil and Gas Building
Wichita Falls, Texas 76301

Mr. William G. Webb
1700 Mercantile Bank Building
Dallas, Texas 75201

El Paso Exploration Co.
Attention: Land Department
P. O. Box 4289
Farmington, NM 87499-4289

Phillips Petroleum Co.
Attention: Bruce A. Bowman
8055 E. Tufts Avenue Parkway
Denver, Colorado 80237

Elizabeth T. Calloway
4801 St. Johns Drive
Dallas, Texas 75205

John L. Turner
800 Diamond Shamrock Tower
Dallas, Texas 75201

Mercantile National Bank of Dallas
Trustee, Mary Frances Turner, Jr.
Personal Trust Department
P. O. Box 225415
Dallas, Texas 75265

Gas Producing Enterprises, Inc.
Attention: North Region-Land Department
2100 Prudential Plaza
Denver, Colorado 80201