

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator <u>Nadel And Gussman Permian</u>					Lease or Unit Name <u>Rolling Rock St.</u>						
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <u>9-21-99</u>						
Completion Date					Well No. <u>12222</u>						
Total Depth <u>10900</u>					Elevation <u>7850</u>						
Plug Back TD					Date Recd. - Sec. - TWP - Rge. <u>M 31-23-25</u>						
Country					County						
Log. Size <u>5 1/2</u> WL <u>17#</u> d <u>4.892</u> Sec. At <u>10900</u>					Perforations: From: <u>10482</u> To: <u>10426</u>						
Log. Size <u>2 7/8</u> WL <u>6.5</u> d <u>2.441</u> Sec. At <u>10426</u>					Perforations: From: To:						
Type Well - Single - Bradenhead - G.G. - G.C. Multiple <u>Single</u>					Packer Sec. At <u>10426</u>						
Producing Thru <u>TBG</u>					Connection <u>Sales</u>						
Reservoir Temp. °F <u>178.3</u> Mean Annual Temp. °F <u>60°</u>					Baro. Press. - P _s <u>13.2</u>						
L <u>10426</u> H <u>10426</u> G _g <u>.575</u> % CO ₂ <u>.80</u> % N ₂ <u>.34</u> % H ₂ S <u>0</u> Prover <u>0</u>					Meter Run <u>3.068</u> Tags <u>F/G</u>						
FLOW DATA					TUBING DATA						
CASING DATA					Duration of Flow						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	3.068 X .750			490	6.25"	62°	600				24 hrs
2.											
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcf				
1.							341				
2.											
3.	GAS VOLUMES TAKEN FROM FLOW METER										
4.											
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>N/A</u> <u>Mcf</u>						
1.					A.P. I. Gravity of Liquid Hydrocarbons <u>N/A</u> <u>deg</u>						
2.					Specific Gravity Separator Gas <u>.575</u> <u>XXXXXXXXXX</u>						
3.	TOTAL FLOW				Specific Gravity Flowing Fluid <u>N/A</u> <u>XXXXXX</u>						
4.					Critical Pressure <u>675</u> <u>PSIA</u> <u>PSIA</u>						
5.					Critical Temperature <u>342</u> <u>R</u> <u>R</u>						
$P_c = 2311.1$ $P_w = 5341.2$											
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	$1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.051$ $2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = 1.051$						
1.	253.2	504.5	254.6	5026.2							
2.											
3.											
4.											
5.											
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = 367$											
Absolute Open Flow <u>367</u> Mcfd @ 15.025 Angle of Slope <u>45°</u> Slope, n <u>1.000</u>											
Remarks: <u>*Calculated from known bottom hole pressure.</u> <u>*No liquid made during test</u>											
Approved By Division				Conducted By:				Calculated By: <u>M. B.</u>			
								Checked By: <u>B. M.</u>			