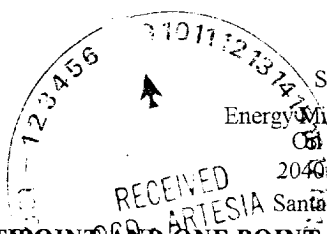


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122



State of New Mexico
Energy, Minerals and Natural Resources
Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

C/SF

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator NADEL & GUSSMAN PERMAIN LLC					Lease or Unit Name VALERO STATE				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/25/01		Well No. 1		
Completion Date		Total Depth 11128		Plug Back TD 11032		Elevation		Unit Ltr - Sec - TWP - Rge C 35 18S 28E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11128	Perforations: From: 10955 To: 10975		County EDDY			
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10874	Perforations: From: To:		Pool N TURKEY TRACK MORROW			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10874		Formation MORROW			
Producing Thru Tubing		Reservoir Temp. °F 169.3		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection AIR	
L 10874	H 10874	Gg 0.629	%CO ₂ 0.72	%N ₂ 0.42	%H ₂ S N/A	Prover N/A	Meter Run 2.067	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prever Line Size	Orifice x 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
SI						2059	N/A	PKR	N/A
1	2.067 X 1.250		105	5	66	1986			1 HR
2	2.067 X 1.250		105	26	70	1949			1 HR
3	2.067 X 1.250		200	52	62	1864			1 HR
4	2.067 X 1.250		300	82	68	1793			1 HR
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd	
1	8.12		24.3	118.2	0.9943	1.261	1.047	259	
2	8.12		55.4	118.2	0.9905	1.261	1.047	594	
3	8.12		105.3	213.2	0.9981	1.261	1.047	1126	
4	8.12		160.2	313.2	0.9924	1.261	1.047	1704	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.				
1	0.78	526	1.45	0.912	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.				
2	0.78	530	1.45	0.912	Specific Gravity Separator Gas 0.629 XXXXXXXX				
3	0.78	522	1.44	0.913	Specific Gravity Flowing Fluid XXXXX				
4	0.78	528	1.45	0.912	Critical Pressure 674 P.S.I.A. P.S.I.A.				
5					Critical Temperature 361 R R				
P _c 2112 P _{c2} 4460.5					$(1) \quad \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4.859}{\quad}$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{8279.7}{\quad}$ $(2) \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{4.859}{\quad}$				
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²					
1		2037.4	4150.9	309.6					
2		1996.8	3987.2	473.3					
3		1937.9	3755.5	705					
4		1882.2	3542.7	917.8					
5									
Absolute Open Flow 8279.7 Mcfd @ 15.025					Angle of Slope (°): 45		Slope n: 1		
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES . NO LIQUID MADE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM	