

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

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

Form C-122
Revised October, 1990

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator _____										Lease or Unit Name _____									
Type Test ☒ Initial ☐ Annual ☐ Special										Test Date _____					Well No. _____				
Completion Date 4 25 01			Total Depth _____				Plug Rock ID 12865			Elevation _____			Unit Ltr - Sec - TWP - Rge 21 1N 32						
Csg. Size 5 1/2		Wt 17#	d 4.892	Set At 13048			Perforations From 12762 To 12782			County LEA									
Tbg. Size 2 7/8		Wt 6.4 #	d 2.441	Set At 12686			Perforations From _____ To _____			Pool _____									
Type Well-Single-Headhead-G.O. or G.O. Multiple SINGLE										Packer Set At 12686			Formation MORROW						
Producing Thru Tbg. Size			Reservoir Temp. °F 182 @ 12772			Mean Annual Temp. °F 60			Daro Press. P _a 13.2			Connection VENT							
L 12772		H 12772		Q _g 0.672		Q _{sc} (Q) 0.672		Q _{sc} (Q) 0.384		Prover		Meter Run 3.068		Taps FLG					
FLOW DATA										TUBING DATA					CASING DATA				
No.	Prover Line Size	Orifice x Size		Press p.s.i.g.		Dell In.		Temp. °F		Press p.s.i.g.		Temp. °F		Press p.s.i.g.		Temp. °F		Duration of Flow	
SI										3900				PKR				88 HRS	
1		3 X .750		421		4		118		3660				PKR				1 HR	
2		3 X .750		424		21.16		134		3390				PKR				"	
3		3 X .750		449		75.7		126		3045				PKR				"	
4		3 X 1.250		483		33.6		90		2475				PKR				"	
5																			
RATE OF FLOW CALCULATIONS																			
No.	COEFFICIENT (24 Hour)			$\sqrt{I_w F_m}$		Pressure P _m		Flow Temp. Factor (t)		Gravity Factor F _g		Super Compress Factor F _{sp}		Rate of Flow Q, Mcfd					
1	2.672			41.67		434.2		0.9485		1.22		1.033		133					
2	2.672			96.18		437.2		0.9356		1.22		1.032		303					
3	2.672			187.05		462.2		0.9469		1.22		1.036		5998					
4	7.577			129.12		496.2		0.723		1.22		1.049		1217					
5																			
No.	P _i	Temp. °R		T _r		Z		Gas Liquid Hydrocarbon Ratio _____ 15.8 Mcf/bbl											
1	0.64	578		1.51		0.937		AP L Gravity of Liquid Hydrocarbons _____ 51.2 @ 60 Deg											
2	0.65	594		1.55		0.939		Specific Gravity Separator Gas _____ 0.672 XXXXXXXX											
3	0.69	580		1.51		0.932		Specific Gravity Flowing Fluid _____ XXXXXX GMIX = .857											
4	0.74	550		1.43		0.908		Critical Pressure _____ 669 P.S.I.A. _____ P.S.I.A.											
5								Critical Temperature _____ 382 R _____ R											
P _i		4412.2		P _w		19467.5													
No.	P _i ²	P _w		P _w ²		P _i ² - P _w ²													
1		4079.2		16639.9		2827.6													
2		3810.2		14517.6		4949.9													
3		3468.8		12032.6		7434.9													
4		2880.2		8295.6		11171.9													
5																			
								(1) $P_c^2 = \frac{P_i^2 - P_w^2}{P_c^2 - P_w^2} = 1.742$ (2) $\left[\frac{P_i^2}{P_c^2 - P_w^2} \right]^n = 1.742$ AOF = Q $\left[\frac{P_i^2}{P_c^2 - P_w^2} \right]^n = 2.121$ 79825											
Absolute Open Flow _____ 2.121 Mcfd @ 15.025																			
Remarks: _____										*Shut-in and flowing bottom hole pressure from GRC - Enis 2000 - Elec. Gauge									
Approved By Division _____					Conducted By SIGNAL WIRE LINE					Calculated By BM					Checked By BM				