

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
FEB 04 1986
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-30-86	
Company El Paso Natural Gas Co.			Connection		
Pool Blanco			Formation Mesa Verde		Unit
Completion Date 1-30-86		Total Depth 7725	Plug Back TD 7717	Elevation 6545 GR	Farm or Lease Name S.J. 27-5 Unit
Csq. Size 9.625	Wt. 40	d 8.835	Set At 3596	Perforations: From 4914 To 7703	Well No. #165 M
Tbg. Size 1.900	Wt. 2.9	d 1.610	Set At 5865	Perforations: From To	Unit Sec. Twp. Rge. C 29 27 05
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 5940	County Rio Arriba
Producing Thru Tbg.		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a 12	State New Mexico
L	H	Gg .700	% CO ₂	% N ₂	% H ₂ S Prover Meter Run Taps

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	
SI							253		873		7 Days
1.		.750		146		59	146		785		3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		158	1.0010	.9258	1.017	1841
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1					Specific Gravity Separator Gas _____	X X X X X X X X
2.					Specific Gravity Flowing Fluid _____	X X X X X
3.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
4.					Critical Temperature _____ R	_____ R
5.						

P_c 885		P_c^2 783225				
NO	P_i^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{783225}{148016}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.4889$
1		797	635209	148016		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6423$$

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Absolute Open Flow 6423 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: 7" Liner set - 3472 - 6070.
4½" Liner set - 5965 - 7725.

Gas Vented During Test = 230 MCF

Approved By Commission:	Conducted By: Gary Osborne	Calculated By: Scott H. Lindsay	Checked By: kld
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