

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

Form C-122
Revised 9-1-65

RECEIVED

JUL 19 1985

OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-15-85			
Company El Paso Natural Gas				Connection			
Pool Blanco				Formation Mesa Verde			
Completion Date 7-15-85		Total Depth 5086		Plug Back TD 5072		Elevation 5876 GR	
Farm or Lease Name Lackey A				Well No. #1A			
Csg. Size 7.000	Wt. 20	d 6.456	Set At 2723	Perforations: From *3918 To 5008		Unit Sec. Twp. Rge. J 12 29 10	
Teg. Size 2.375	Wt. 4.7	d 1.995	Set At 4976	Perforations: From To		County San Juan	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 2576		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. *F a	Mean Annual Temp. *F	Baro. Press. - P _a 12		Meter Run Taps	
L	H	G _g .680	% CO ₂	% N ₂	% H ₂ S	Prover	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	
1.		.750		124		74	617				14 Days
2.							124				3 Hrs.
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		136	.9868	.9393	1.013	1579
2.							
3.							
4.							
5.							

NO.	P _f	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

P _c 629	P _c ² 395641	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{395641}{329077}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1482$
NO. 1	P _f 258	P _w 66564	P _w ² 329077
2			
3			
4			
5			

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1813$

Absolute Open Flow	1813	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: *4.500" Liner 2578'-5086'. Mist of oil & water throughout test.
Gas vented during test = 316 MCF.

Approved By Commission:	Conducted By: Bob Haire	Calculated By: Ed Mabe	Checked By: kld
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