

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-17-80			
Company El Paso Natural Gas Company				Connection EPNG					
Pool Basin				Formation DK				Unit S.J. 29-7	
Completion Date 8-29-80		Total Depth 7432'		Plug Back TD 7422'		Elevation 6227 GR		Farm or Lease Name S.J. 29-7 Unit	
Csg. Size 7.000	Wt. 23.0	d 6.366	Set At 5713'	Perforations: From 7226 To 7426		Well No. #77-A (DK)			
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 7388'	Perforations: From To		Unit Sec. Twp. Rge. 0 33 29 07			
Type Well - Single - Hardhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 5578'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.650	% 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 _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							882				20 days
1.	Choke	0.750		90		69					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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		102	0.9915	0.9608	1.009	
2.							
3.							
4.							
5.							

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

P _c 894	P _c ² 799236		
NO.	P _c ²	P _w	P _c ² - P _w ²
1	10404	221	48841
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0651$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0484$

AGF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1271$

Absolute Open Flow	1271	Mcf @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks: 4.500" liner' from 5608' to 7432'.
Gas vented= 238 MCF.

Approved By Commission:	Conducted By: John Easley	Calculated By: H. E. McAnally	Checked By:
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