

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 8-12-85		AUG 13 1985 OIL CON. DIV. DIST. 3			
Company El Paso Natural Gas				Connection							
Pool Blanco				Formation Mesa Verde				Unit			
Completion Date 8-12-85		Total Depth 6330		Plug Back TD 6314		Elevation 6822 GR		Farm or Lease Name S.J. 27-4 U.			
Coq. Size 7.000	Wt. 23	d 6.456	Set At 4140	Perforations: From *5910 To 6288		Well No. #33					
Tqg. Size 2.375	Wt. 4.7	d 1.995	Set At 6269	Perforations: From To		Unit I		Sec. 11	Twp. 27	Rge. 4	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Rio Arriba			
Producing Thru Tbg.		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico			
L	H	G _g .680	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.			.750	183		66	990		1204		7 Days
2.							183		685		3 Hrs.
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		195	.9943	.9393	1.019	2295
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/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 _r 1216	P _r ² 1478656	
NO.	P _r	P _w
1	697	485809992847
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1478656}{992847}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3094$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3482$$

Absolute Open Flow	3094	Mcfd @ 15.025	Angle of Slope	75
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Remarks: *4.500' Liner 3965'-6330.
Produced surges of oil & water throughout test. Gas vented during test = 379 MCF.

Approved By Commission:	Conducted By: Harold Cloer	Calculated By: Ed Mabe	Checked By: kld
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