

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

Form C-122
Revised 9-1-65

RECEIVED

AUG 28 1985

OIL CON. DIST. 2

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-22-85	
Company El Paso Natural Gas		Connection	
Pool Blanco		Formation Mesa Verde	
Completion Date 8-22-85		Total Depth 6105	Plug Back TD 6089
Elevation 6634 GR		Farm or Lease Name S.J. 27-4 Unit	
Csg. Size 7.000	Wt. 20	d 6.456	Set At 3836
Perforations: From *5182 To 6036'		Well No. #121A	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6030
Perforations: From To		Unit I	Sec. 18
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single		Packer Set At None	Twp. 27
Producing Thru Tbg.		Reservoir Temp. *F a	Mean Annual Temp. *F
Baro. Press. - P _a 12		State New Mexico	
L	H	G _g .690	% 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.	
SI							848		920	
1.		.750		210		68	210		684	
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		222	.9924	.9325	1.023	2598
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 932	P _w 868624					
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{868624}{384208}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.84374$
1		696	484416	384208		
2						
3						
4						
5						

$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4790$	
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Absolute Open Flow 4790 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____
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Remarks: *4.500 Liner at 3657' to 6104.
Unloaded water & oil at first of test. Gas vented during test 364 MCF.

Approved by Commission:	Conducted By: Harold Cloer	Calculated By: Cliff Brock	Checked By: kld
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