

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 10-04-85	
Company El Paso Natural Gas		Connection	
Pool Blanco		Formation Mesa Verde	
Completion Date 10-04-85	Total Depth 5890	Plug Back TD 5878	Elevation 6506 GR
Farm or Lease Name S.J. 27-5 Unit		Well No. #49A	
Csg. Size 7.000	Wt. 20	d 6.456	Set At 3623
Perforations: From *4252 To 5872			
Teg. Size 2.375	Wt. 4.7	d 1.995	Set At 5841
Perforations: From To			
Type Well - Single - Brdenhead - G.C. or G.O. Multiple G.G. Dual		Packer Set At 3430	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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.			.750	223		77	223				7 Days 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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.365		235	.9840	.9393	1.022	2745
2.							
3.							
4.							
5.							

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

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 OIL CON. DIV.
 DIST. 3

P _r 662	P _w 438244	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{438244}{215460}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7032$
NO. 1	P _r 472	P _w 222784	P _c 215460
2.			
3.			
4.			
5.			

$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4675$

Absolute Open Flow	4657	Mcf/d @ 15.025	Angle of Slope →	Slope, n .75
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Remarks: *4.500" Liner 3464' - 5890'.
Gas vented during test = 386 MCF.

Approved by Commission:	Conducted By: John Easley	Calculated By: Ed Mabe	Checked By: kld
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