

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

Form C-122
Revised 9-1-65

RECEIVED

JUN 27 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-24-85	
Company El Paso Natural Gas				Connection		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 6-24-85		Total Depth 5175		Plug Back TD 5158		Elevation 5865 GL
Farm or Lease Name Howell E						Well No. #1A
Csg. Size 7.000	Wt. 23	d 6.366	Set At 2961	Perforations: From *4167 To 5138		
Inj. Size 2.375	Wt. 4.7	d 1.995	Set At 5120	Perforations: From To		Unit D 29 30 8
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 2766		County San Juan
Producing Thru Tbg.		Reservoir Temp. °F @		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.			.750	151		64	443				15 Days
2.							151				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.365		163	.9962	.9325	1.020	1910
2.							
3.							
4.							
5.							

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

P _c 455	P _c ² 207025	
NO.	P _t ²	P _w
1.		316
2.		
3.		
4.		
5.		

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{207025}{107169}$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6386$
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3130$	

Absolute Open Flow 3130 Mcfd @ 15.025	Angle of Slope @	Slope, n
Remarks: * 4.500" liner 2815' - 5175' Blew light mist liquids throughout test. Gas vented during test = 234 MCF.		
Approved By Commission:	Conducted By: Bob Easterling	Calculated By: Ed Mabe
		Checked By: kld