

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 9/20/75							
Company Mesa Petroleum Co.			Connection El Paso Natural Gas Co.								
Pool Blanco			Formation Mesaverde		Unit						
Completion Date 9/11/75		Total Depth 5510'	Plug Back TD 5470'	Elevation 6234' GL	Farm or Lease Name State Com L						
Csg. Size 10-3/4"	Set At 150'	Perforations: From 4515' To 4890'	Well No. #8A								
Tbg. Size 4-1/2" 10.5#	Set At 5505'	Perforations: From 5260' To 5412'	Unit E	Sec. 36	Twp. 32N Rye. 11W						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple			Packer Set At	County San Juan Co.							
Producing Thru Tbg.	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a	State New Mexico							
L	H	G _g	% CO ₂	% N ₂	% H ₂ S						
FLOW DATA			TUBING DATA		CASING DATA						
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	Duration of Flow
SI							756		756		SI 7 days
1.	1.995 X 0.75						298	68°	736		1 hr.
2.							298	71°	728		2 hr.
3.							298	72°	722		3 hr.
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											
2.	12.3650		310	0.9887	0.9463	1.0314	3,699				
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1.	0.4634	532	1.3927	0.940	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.					Specific Gravity Separator Gas 0.67 X X X X X X X X						
3.					Specific Gravity Flowing Fluid X X X X X						
4.					Critical Pressure 669 P.S.I.A. P.S.I.A.						
5.					Critical Temperature 382 R R						
P _c 768 P _c ² 589,824					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 11.5498$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.2651$						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 23,175$						
1		734	538,756	51,068							
2											
3											
4											
5											
Absolute Open Flow 23,175 MCF/D					Mcf @ 15.025			Angle of Slope θ		Slope, n 0.75	
Remarks:											
Approved By Commission:			Conducted By:			Calculated By: William Main			Checked By:		

9/22/75 5 State, 1 Archer, 2 EPNG, Div Mgr, D&M, M&M, Les Carnes