

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 10-18-78				
Company MESA Petroleum Company					Connection EL PASO NATURAL GAS Co.				
Pool BLANCO					Formation MESQUERDE				
Completion Date 8-31-78			Total Depth 4830		Plug Back TD 4808'		Elevation		Unit L
Csg. Size 5 1/2			Wt. 14#	d K55	Set At 4817	Perforations: From To		Well No. #47	
Tbg. Size 2 1/4			Wt.	d	Set At 4583	Perforations: From 3944' To 4288'		Unit L	Sec. Twp. Rge. 2 27N 8W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - G.G.					Packer Set At			County SAN JUAN	
Producing Thru TUBING			Reservoir Temp. °F #		Mean Annual Temp. °F 71°		Baro. Press. - P _a		State New Mexico
L	H	Gg .650	% CO ₂	% N ₂	% H ₂ S	Prover 3/4	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
SI							1044				
1.			.750			68°	307				1 hr
2.			.750			69°	255				2 hr
3.			.750			71°	254				3 hr
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3							
4	12.3650		266	.9896	.9608	1.029	3312
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2					Specific Gravity Separator Gas	.650
3					Specific Gravity Flowing Fluid	X X X X X
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3				
4	70756	663	439897	675239
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6515$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4568$

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4825$

Absolute Open Flow	4825	Mcf @ 15.025	Angle of Slope @	Slope, n .75
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Remarks:

Approved By Commission:	Conducted By: GLEN RHODES	Calculated By: M.E. DODSON	Checked By:
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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 10-18-78	
Company Mesa Petroleum Company				Connection El Paso Natural Gas Co.			
Pool Blanco				Formation Pinar de Cliffs		Unit L	
Completion Date 8-31-78		Total Depth 4830		Plug Back TD 4508'		Elevation State Com	
Csg. Size 5 1/2"	Wt. d	Set At 4817'	Perforations: From To		Well No. 447		
Tub. Size 1 1/4"	Wt. d	Set At 2368	Perforations: From 2252 To 2296		Unit Sec. Twp. Rge. L. 2 27N 8W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Ducc - GG				Packer Set At:		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 80		Mean Annual Temp. °F 68°		Baro. Press. - P _a State New Mexico	
L	H	Gg	% 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	
SI							839				
1.			.750			68°	27				1 hr
2.			.750			68°	23				2 hr
3.			.750			68°	20				3 hr
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							
2							
3							
4	12.3650		32	.9924	.9608	1.057	400
5							

NO.	P _t	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 .650 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0157$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0133$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 405$
1					
2					
3					
4	1024	106	11207	712994	
5					

Absolute Open Flow 405		Mcf @ 15.025		Angle of Slope θ		Slope, n .85	
Remarks:							
Approved By Commission:		Conducted By: GLEN RHODES		Calculated By: M.E. DUDGEN		Checked By:	