

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 7-7-77			
Company Atlantic Richfield Company				Connection El Paso Natural Gas Company					
Pool Jalmat				Formation Jalmat Gas				Unit .	
Completion Date 6-27-77		Data Points 3630		Plus Back TE 3503		Elevation 3550		Farm or Lease Name John P. Combest WN	
Csg. Size 5 1/2	Wt. 14	d 5.012	Set At 3630	Perforations: From 2970 To 3464		Well No. 2			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3420	Perforations: From open To ended		Unit Sec. Twp. Rge. G 35 23 36			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At none		County Twp.			
Producing Thru Tbg.		Reservoir Temp. °F a		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico	
L 3420	H 3420	Gg 677	% CO ₂ -	% N ₂ -	% H ₂ S -	Prover -	Meter Run 4"	Taps Fl.	

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							203				24 hrs.
1.	4	x	1.000	39	5.29	88	192				45 Min.
2.	4	x	1.000	39	16.00	88	183				30 Min.
3.	4	x	1.000	42	33.64	85	170				45 Min.
4.	4	x	1.000	44	60.84	82	151				45 Min.
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	4.753	16.62	52.2	.9741	1.215	Nil	93
2	4.753	28.90	52.2	.9741	1.215	Nil	163
3	4.753	43.09	55.2	.9768	1.215	Nil	243
4	4.753	58.99	57.2	.9795	1.215	Nil	334
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.07	548	1.42	Nil	Dry	
2.	0.07	548	1.42	Nil	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
3.	0.08	545	1.42	Nil	Specific Gravity Separator Gas	.677
4.	0.09	542	1.41	Nil	Specific Gravity Flowing Gas	XXXXXX
5.					Critical Pressure	669 P.S.I.A.
					Critical Temperature	385 °R

P _c	216.2	P _w	46.74		
NO.	P _r	P _w	P _a	$\frac{P_r^2}{P_w^2 - P_a^2}$	$\left[\frac{P_r^2}{P_w^2 - P_a^2} \right]^n =$
1	42.11	205.5	42.23	1.51	2.207
2	38.40	197.2	38.87	1.67	
3	33.56	185.5	34.10	2.24	
4	26.96	162.0	28.55	18.19	
5					

Absolute Open Flow		737	Mcf @ 15.025	Angle of Slope °	500	Slope, n	.639
Remarks:							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
		Pick Pagan		Pick Pagan		L. C. Hudry	