

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 08/19/74		61-496	
Company Atlantic Richfield Company				Connection El Paso Natural Gas Company					
Pool Jalmat				Formation Yates				Unit 0	
Completion Date 06/26/74		Total Depth 3700		Plug Back TD 3512		Elevation 3509 OF		Farm or Lease Name McDonald State WN	
Csg. Size 4 1/2	Wt. 4.5	d 4.090	Set At 3546	Perforations: From 3179 To 3402		Well No. 27			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3135	Perforations: From Open To Ended		Unit 0	Sec. 14	Twp. 22S	Rge. 36E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 86		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State New Mexico	
L 3135	H 3135	Gg .677	% CO ₂ ----	% N ₂ ----	% H ₂ S ----	Prover ----	Meter Run 4"	Taps Flg.	

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.	
SI							590		590	
1.	4 x 2.750			75	2.6	52	567		575	
2.	4 x 2.750			102	6.0	48	529		550	24 hr.
3.	4 x 2.750			115	16.0	49	464		517	24 hr.
4.	4 x 2.750			154	17.6	56	345		470	24 hr.
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, F _{pv}	Rate of Flow Q, Mcfd
1	41.10	15.14	88.2	1.008	1.215	Nil	762
2	41.10	26.29	115.2	1.012	1.215	Nil	1329
3	41.10	45.29	128.2	1.011	1.215	Nil	2287
4	41.10	54.25	167.2	1.004	1.215	1.020	2774
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.13	512	1.32	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Dry _____ Deg.
2.	.17	508	1.31	Nil	Specific Gravity Separator Gas .677 XXXXXXXXXX
3.	.19	509	1.31	Nil	Specific Gravity Flowing Fluid XXXXXX
4.	.25	516	1.33	.962	Critical Pressure 669 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 388 _____ R _____ R

P _c 603.2	P _c ² 363.85	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{2.791}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.927}$
NO.	P _t ²	P _w	P _w ²
1		588.2	345.98
2		563.2	317.19
3		530.2	281.11
4		483.2	233.48
5			

Absolute Open Flow 5.345 Mcfd @ 15.025		Angle of Slope θ 57.5°	Slope, n .639
Remarks: No fluid made.			
Approved By Commission: Conducted By: Rick Pagan Calculated By: Rick Pagan Checked By:			