

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 11/16/76	
Company Atlantic Richfield Company			Connection El Paso Natural Gas Company		
Pool Eumont			Formation Queen		Unit K
Completion Date 08/26/76		Total Depth 3867	Plug Back TD 3825	Elevation 3557 DF	
Farm or Lease Name J. M. Brownlee					
Csg. Size 7"	Wt. 24	d 6.336	Set At 3730	Perforations: From 3545 To 3657	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 3603	Perforations: From open To end	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Thg. L				Reservoir Temp. °F 90	
Mean Annual Temp. °F				Baro. Press. - P _a	
State New Mexico				County Lea	
Prover 3603	H 3603	G _g .710	% 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.	Temp. °F	
SI							328		328		24 hrs.
1.	4	x	1.500	80	9.61	44	300		306		1 hr.
2.	4	x	1.500	85	20.25	48	260		285		1 hr.
3.	4	x	1.500	90	36.00	53	211		259		1 hr.
4.	4	x	1.500	87	56.25	57	150		230		1 hr.
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	10.84	29.93	93.2	1.016	1.187	Neg.	391
2	10.84	44.59	98.2	1.012	1.187	Neg.	581
3	10.84	60.95	103.2	1.007	1.187	Neg.	790
4	10.84	75.07	100.2	1.003	1.187	Neg.	969
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.14	504	1.28	Neg.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.15	508	1.29	Neg.	Specific Gravity Separator Gas .710 X X X X X X X X
3.	.15	513	1.30	Neg.	Specific Gravity Flowing Fluid X X X X X
4.	.15	517	1.31	Neg.	Critical Pressure 668 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 395 R _____ R

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.031$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.627$
1		319.2	101.9	14.5		
2		298.2	88.9	27.5		
3		272.2	74.1	42.3		
4		243.2	59.1	57.3		
5						

Absolute Open Flow 1.577 Mcfd @ 15.025				Angle of Slope 56.5°	Slope, n 0.687
Remarks: No fluid measured during test.					
Approved By Commission:		Conducted By: Rick Pagan		Checked By: Rick Pagan	