

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 7-5-77	
Company Atlantic Richfield			Connection Northern Natural Gas Company		
Pool Eumont Gas			Formation Yates - 7 Rivers Queen		Unit
Completion Date 5-19-77		Total Depth 3938	Plug Back TD 3887		Elevation 3638 GR
Farm or Lease Name State 176					
Cas. Size 7"	Wt. 24#	d 6.366	Set At 3853	Perforations: From 3179 To 3780	
Well No. 6					
Thq. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 3730	Perforations: From open To end	
Unit C	Sec. 19	Twp. 21S	Rge. 36E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
County Lea					
Producing Thru Tubing		Reservoir Temp. °F 105	Mean Annual Temp. °F 60 ⁰	Baro. Press. - P _g 13.2	
State New Mexico					
L 3730	H 3730	G _g .685	% CO ₂ 2.18	% N ₂ 1.8	% H ₂ S .01
Prover -	Meter Run 4	Taps pipe			

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							343		338		24 hr.
1.	4 X 1.500			101	3.8	75	289	70	326		45 Min.
2.	4 X 1.500			105	13.5	73	241	70	314		30 Min.
3.	4 X 1.500			115	32.8	72	225	72	297		1 hr.
4.	4 X 1.500			119	44.5	72	182	73	285		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	11.82	20.8	114.2	.9859	1.208	nil	293
2	11.82	39.9	118.2	.9877	1.208	nil	563
3	11.82	54.8	128.2	.9887	1.208	nil	915
4	11.82	76.7	132.2	.9887	1.208	nil	1083
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.17	535	1.42	Nil	None	
2	0.18	533	1.42	Nil		
3	0.19	532	1.41	Nil		
4	0.19	532	1.41	Nil		
5						

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	351.2	123.3		
1		339.2	115.1	8.2
2		327.2	107.1	16.2
3		310.2	96.2	27.1
4		298.2	88.9	34.4
5				

Absolute Open Flow 3222 Mcfd @ 15.025 Angle of Slope θ 49.5 Slope, n 0.854

Remarks:			
Approved By Commission: <i>John W. Runyan</i>	Conducted By: P. Dailey	Calculated By: H. Rozean	Checked By: L. C. Hudry <i>L. C. Hudry</i>

RECEIVED

JUL 7 1977

OIL CONSERVATION COMM.
HOBBS, N. M.