

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND POINT BACK PRESSURE TEST F GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-21-78	
Company Amoco Production Company				Connection Northern Natural Gas Company			
Pool Jalmat				Formation Yates		Unit	
Completion Date 1-24-78		Total Depth 3400		Plug Back TD 3400		Elevation 3335	
Farm or Lease Name Myers B Federal							
Csg. Size 5.500		Wt. 14.0		ID 5.012		Set At 3400	
Thg. Size 2.375		Wt. 4.6		ID 1.995		Set At 3222	
Perforations: From 3035 To 3218				Well No. 31			
Perforations: From 0 To 0				Unit Sec. Twp. Rge. G 6 24 S 37 E			
Type Well - Single - Bradenhead - C.G. or G.O. Multiple Single						Packer Set At 0	
Producing Thru Tubing						County Lea	
Reservoir Temp. °F 86 @ 3100		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico	
L 3100		H 3100		Gg .664		% CO ₂ 2.20	
				% N ₂ 1.88		% H ₂ S 0	
				Provor 0		Meter Run 4.0	
						Taps Flange	

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							195	72			72.0
1.	4.03 X 1.500			56	5.0	61	175	75	0	0	1.0
2.	4.03 X 1.500			56	10.0	63	163	80	0	0	1.0
3.	4.03 X 1.500			56	15.2	64	146	81	0	0	1.0
4.	4.03 X 1.500			56	25.0	65	130	81	0	0	1.0
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	10.84	18.60	69.2	0.9990	1.2272	1.0065	249
2	10.84	26.31	69.2	0.9971	1.2272	1.0065	351
3	10.84	32.43	69.2	0.9962	1.2272	1.0064	433
4	10.84	41.59	69.2	0.9952	1.2272	1.0064	554
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	0	Mcft/lbbl.
1.	0.10	521	1.41	0.987	A.P.I. Gravity of Liquid Hydrocarbons	0	Deg.
2.	0.10	523	1.41	0.987	Specific Gravity Separator Gas	0.664	X X X X X X X X
3.	0.10	524	1.42	0.987	Specific Gravity Flowing Fluid	X X X X X	0.664
4.	0.10	525	1.42	0.987	Critical Pressure	676	P.S.I.A. 676 P.S.I.A.
5.					Critical Temperature	370	R 370 R

P _c 208.0	P _c ² 43	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3013$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9914$
NO.	P _i ²	P _w	P _w ²
1	35	190	36
2	31	180	33
3	25	166	28
4	21	156	24
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1104$	
---	--

Absolute Open Flow 1104 Mcfd @ 15.025	Angle of Slope @ 50.4	Slope, n 0.826
---------------------------------------	-----------------------	----------------

Remarks:			
Approved By: <i>[Signature]</i>	Conducted By: John West Engineering	Calculated By: CJT (Amoco)	Checked By: RMB (Amoco)