

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 9-29-78	
Company Amoco Production Company		Connection El Paso Natural Gas Comp.	
Operator Langlie Mattix		Formation Queen	
Completion Date 6-8-78		Total Depth 3600	Plug Back TD 3562
		Elevation 3268	Form or Lease Name Myers B Federal
Sq. Size 5.500	Wt. 14.0	d 5.012	Set At 3600
		Perforations: From 3260 To 3361	Well No. 32
Sq. Size 2.375	Wt. 4.7	d 1.995	Set At 2951
		Perforations: From 0 To 0	Unit Sec. Twp. Rge. N 9 24S 37E
Type Well - Single - Brdendhead - G.C. or G.O. Multiple			
Single		Packer Set At 0.	County Lea
Producing Thru Tubing		Reservoir Temp. °F 92 @ 3310	Mean Annual Temp. °F 60.0
		Baro. Press. - P _g 13.2	State New Mexico
L 3310	H 3310	G _g 0.760	% CO ₂ 0
		% N ₂ 0	% H ₂ S 0
		Prorog 0	Meter Run 4.0
		Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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	
4.03 x 2.000			13	4.0	72	169	71			72.0
4.03 x 2.000			13	9.0	74	161	70	0	0	0.7
4.03 x 2.000			14	17.6	76	157	72	0	0	0.7
4.03 x 2.000			16	27.5	77	149	72	0	0	0.7
						139	72	0	0	0.7

RATE OF FLOW CALCULATIONS						
Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
19.81	10.24	26.2	0.9887	1.1471	1.0032	231
19.81	15.36	26.2	0.9868	1.1471	1.0032	346
19.81	21.88	27.2	0.9850	1.1471	1.0033	491
19.81	28.34	29.2	0.9840	1.1471	1.0035	636

P _r	Temp. °R	T _r	Z				
0.04	532	1.30	0.994	Gas Liquid Hydrocarbon Ratio	0	Mcf/bbl.	
0.04	534	1.31	0.994	A.P.I. Gravity of Liquid Hydrocarbons	0	Deg.	
0.04	536	1.31	0.993	Specific Gravity Separator Gas	0.760	X X X X X X X X	
0.04	537	1.31	0.993	Specific Gravity Flowing Fluid	X X X X X	0.760	
				Critical Pressure	665	P.S.I.A.	665
				Critical Temperature	409	R	409

181.9	P _c ²	33	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.9581$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.4727$
30	176	31	2			
29	174	30	3			
26	170	29	4			
23	166	28	6			
				AOF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3481$	

Absolute Open Flow	3481	Mcf/d @ 15.025	Angle of Slope θ	46.4	Slope, n	0.952
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Approved By Commission	Conducted By John West Engineering	Calculated By CCW.	Checked By RMB
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