

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/2/82		SEP 7 1982	
Company Yates Petroleum Corp				Connection Transwestern Pipeline		O. C. D. ARTESIA, OFFICE	
Pool Pecos Slope - Abo Gas				Formation Abo		Unit	
Completion Date 3/12/82		Total Depth 4275		Plug Back TD 4201		Elevation 3734 GL	
Form or Lease Name Federal HJ		Well No. #5					
Test. Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 4271	Perforations: From 3860 To 3912		Unit Sec. Twp. Rge. E 30 6S 26E	
Test. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 3830	Perforations: From To		County Chaves	
Type Well - Single - (Wardenhead - G.G. or G.O. Multiple) Single				Packer Set At None		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 96° @ 3830		Mean Annual Temp. °F 62°		Baro. Press. - P ₀ 13.2 PSI	
L 3830	H 3830	Cg .665	% CO ₂ 3.07	% N ₂ 5.16	% H ₂ S 0	Provor --	Motor Run 2" Flanged

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Provor Line Size	X	Grifco Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
51							1013			
1.	2.067 x .750			220	14.4	82°	916	62°		
2.	2.067 x .750			220	19.4	82°	888	62°		
3.	2.067 x .750			220	33.2	75°	841	62°		
4.	2.067 x .750			230	55.0	75°	760	62°		
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, Mcf/d
1	2.709	57.9	233.2	0.9795	1.226	1.019	192
2	2.709	67.3	233.2	0.9795	1.226	1.019	223
3	2.709	88.0	233.2	0.9859	1.226	1.020	294
4	2.709	115.7	243.2	0.9859	1.226	1.021	387
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.	
1	.35	542	1.49	.963	A.P.I. Gravity of Liquid Hydrocarbons -- Deg.	
2	.35	542	1.49	.963	Specific Gravity Separator Gas .665 XXXXXX	
3	.35	535	1.47	.961	Specific Gravity Flowing Fluid XXXXX .665	
4	.36	535	1.47	.960	Critical Pressure 672 P.S.I.A. 672 P.S.I.A.	
5					Critical Temperature 363 °R 363 °R	

NO.	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.324$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.932$
1	863.4		863.9		
2	812.2		812.8		
3	729.7		730.8		
4	597.8		599.9		
5					

Absolute Open Flow 748 Mcf/d @ 15.025		Angle of Slope 781	
Remarks:			
Approved By Commission			
Conducted By David Weaver		Calculated By Andie Alderson	
Checked By			

