

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

Form
Revis

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-10-80	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Buffalo Valley Penn				Formation Morrow	
Completion Date 7-3-80		Total Depth 8500 KB		Plug Back To 8470 KB	
Elevation 3473 KB		Farm or Lease Name Long Arroyo MQ P			
Cas. Size 4 1/2"	Wt. 11.6	d 4,000	Set At 8500' KB	Perforations: From 8001 To 8161	
Thq. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 7959' KB	Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple single				Packer Set At 7959 KB	
Producing Thru Tubing		Reservoir Temp. °F 138 ° 8081		Mean Annual Temp. °F 62	
Baro. Press. - P _a 13.2		State N. Mexico			
L 8074	H 8074	G _g 0.681	% CO ₂ 0.63	% N ₂ 0.52	% H ₂ S Nil
Prover 2"		Meter Run 2"		Taps fla.	

FLOW DATA							TUBING DATA		CASING DATA		D
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	
1.	2.067	X	1.250	760	10	68	2415	53			W
2.	2.067	X	1.250	770	18	70	1879	58			
3.	2.067	X	1.250	780	37	72	1612	63			1
4.	2.067	X	1.250	790	64	74	1305	67			
5.							973	70			1

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, Mcf
1	8.120	87.93	773.2	.9924	1.247	1.0765	951
2	8.120	118.73	783.2	.9905	1.247	1.0761	1281
3	8.120	171.31	793.2	.9887	1.247	1.0762	1846
4	8.120	226.73	803.2	.9868	1.247	1.0763	2438
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.150	528	1.419	.8630	74.65	60.6	0.643	XXXXXX	672	372
2	1.165	530	1.425	.8635				XXXXX		
3	1.180	532	1.430	.8634						
4	1.195	534	1.435	.8633						
5										

NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.1848$	(2) $\left[\frac{R_c^2}{P_c^2 - R_w^2} \right]^n = 1.18$
1			6265	4026		
2			4533	5758		
3			2900	7391		
4			1605	8636		
5						

Absolute Open Flow 2890 Mcf @ 15.025				Angle of Slope 45 degrees		Slope, n 1.1
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Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. calculations worksheet C122D attached

Approved By Commission:	Conducted By: Bob Garv	Calculated By: Eddie Mahfood	Checked By:
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