

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

Form C-122
Revised 9-1-65
3-132 file

RECEIVED

Type Test ☒ Initial ☐ Annual		Date 10-4-81	
Company Yates Petroleum Corporation		Contractor Transwestern Pipeline Co.	
Pool <u>Pecos Slope - Abo Gas</u> Undesignated Abo		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 6-25-81	Total Depth 4350' KB	Perforations 3685' KB	Perforations 2964.3' GR
Cas. Size 4-1/2"	Wt. 9.5#	Set At 4350'	Perforations From 3785' To 3792'
Tub. Size 2-7/8"	Wt. 6.5#	Set At 3752'	Perforations From - To -
Type Well - Single - Dradhead - G.G. or G.O. Multiple Single		Packer Set 3752'	
Producing Thru Tubing	Reservoir Temp. °F 100 @ 3855	Mean Annual Temp. °F 62°	Baro. Press. - psia 13.2 psia
L 3790	H 3790	G ₁ .652	% CO ₂ 0.15
		% N ₂ 6.38	% H ₂ S -
		Prover -	Meter Run 2"
			Taps Flanged
State New Mexico		County Chaves	

FLOW DATA						TUBING DATA		CASING DATA		Flanged	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1000				
1.	2.067	x .625		320.0	85.0	70	619	67			days
2.	2.067	x .625		320.0	36.6	70	698	67			24 hrs
3.	2.067	x .625		330.0	18.6	70	787	67			24 hrs
4.	2.067	x .625		335.0	8.0	70	870	67			24 hrs
5.											24 hrs

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.866	168.3	333.2	.9905	1.238	1.029	396
2	1.866	110.4	333.2	.9905	1.238	1.029	260
3	1.866	79.9	343.2	.9905	1.238	1.029	188
4	1.866	52.8	348.2	.9905	1.238	1.030	124
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcfd/bbl.	Deq.
1	.51	530	1.48	.945	-	-	.652	XXXXXX	659	358	XXXXXX	XXXXXX
2	.51	530	1.48	.945	-	-	.652	XXXXXX	659	358	XXXXXX	XXXXXX
3	.52	530	1.48	.944	-	-	.652	XXXXXX	659	358	XXXXXX	XXXXXX
4	.53	530	1.48	.943	-	-	.652	XXXXXX	659	358	XXXXXX	XXXXXX
5					-	-	.652	XXXXXX	659	358	XXXXXX	XXXXXX

NO.	P _r ²	P _w ²	P _r ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 4.1647$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 3.8669$
1	399.7		400.5	626.1		
2	505.9		506.1	520.5		
3	640.3		640.5	386.1		
4	780.0		780.0	246.5		
5						

Absolute Open Flow 479.5 Mcfd @ 15.025 Angle of Slope ft Slope, n .948

Approved By Commission:	Conducted By: David Weaver	Calculated By: Al Springer	Checked By:
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