

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF C-122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-2-81		NOV 13 1981	
Company Yates Petroleum Corporation/				Connection Transwestern Pipeline Co.		O. C. D.	
Pool Wildcat Strawn				Formation Strawn		Unit ARTESIA, OFFICE	
Completion Date 7-24-81		Total Depth 9360 KB		Plug Back At 9045 KB		Levee 3428 KB	
Casing Size 5 1/2"		Wt. 17#		Set At 9360 KB		Perforations From 8230 To 8246 KB	
Thq. Size 2 3/8"		Wt. 4.7#		Set At 8186 KB		Perforations From To	
Type Well - Single - Drivenhead - G.O. or G.O. Multiple single				Packer Set At 8186 KB		County Eddy	
Producing Thru tubing		Reservoir Temp. °F 139.8 8232		Mean Annual Temp. °F 62		State New Mexico	
L 8232		H 8232		Cg 0.613		% CO ₂ 0.26	
				% N ₂ 2.64		% H ₂ S Nil	
				Prover --		Meter Run 2"	
						Taps flanged	

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							2175	69			Weeks
1.	2.067	X	0.625	460	6	68	1364	75			22 hrs.
2.	2.067	X	0.625	460	12	68	1408	76			24 hrs.
3.	2.067	X	0.625	463	21	70	1097	77			24 hrs.
4.	2.067	X	0.625	470	31	70	480	77			24 hrs.
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	1.866	53.28	473.2	0.9924	1.277	1.0386	131
2	1.866	75.36	473.2	0.9924	1.277	1.0386	185
3	1.866	100.00	476.2	0.9905	1.277	1.0383	245
4	1.866	121.12	483.2	0.9905	1.277	1.0389	297
5							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.707	528	1.487	.9270	A.P.I. Gravity of Liquid Hydrocarbons	---
2	0.707	528	1.487	.9270	Specific Gravity Separator Gas	0.613
3	0.712	530	1.493	.9275	Specific Gravity Flowing Fluid	XXXXXX
4	0.722	530	1.493	.9265	Critical Pressure	669 P.S.I.A.
5					Critical Temperature	355 R

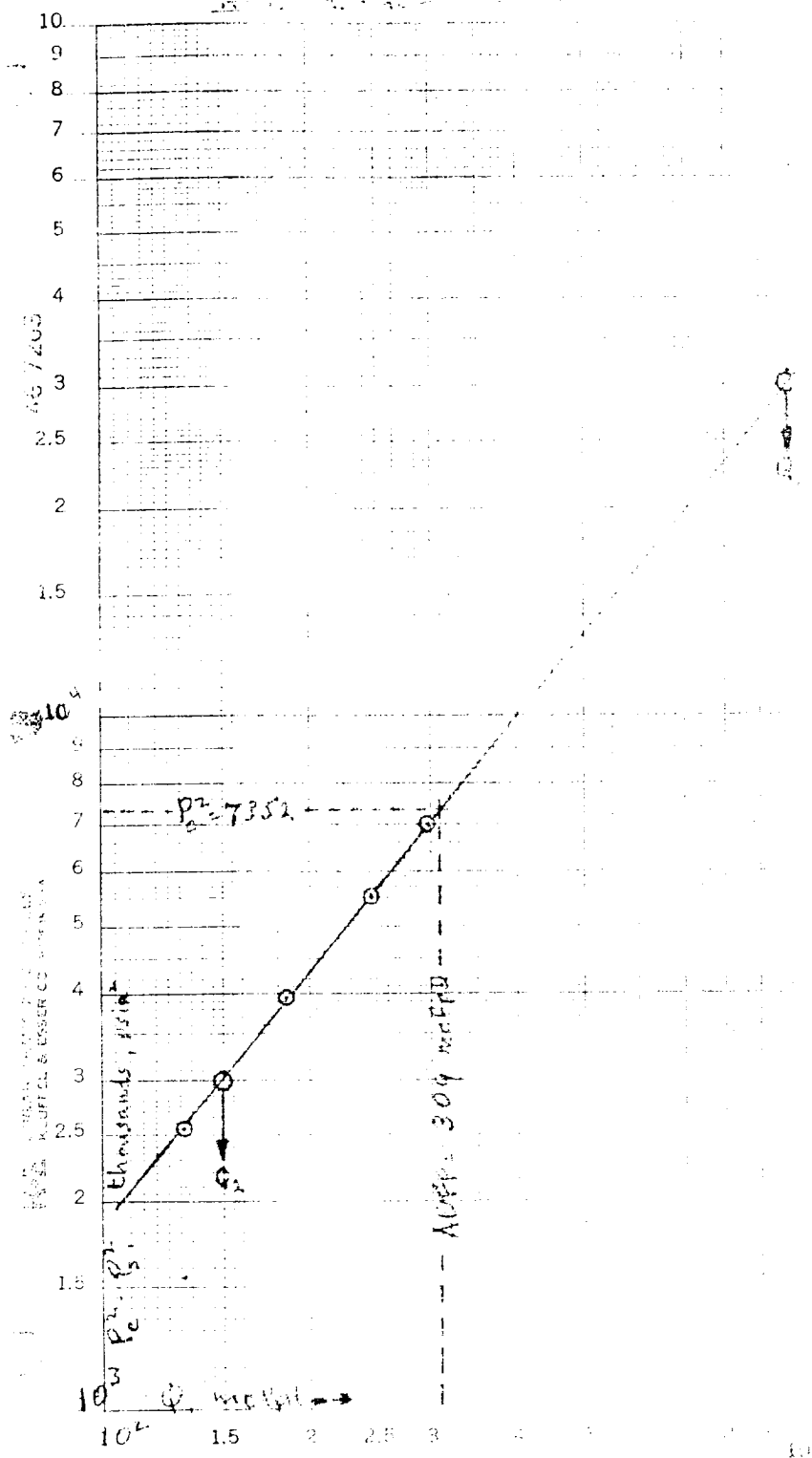
NO.	P _i ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{R_c^2 - R_w^2} =$	(2) $\left[\frac{R_c^2}{R_c^2 - R_w^2} \right]^n =$
1			4802	2550	1.0501	1.0412
2			3396	3956		
3			1825	5527		
4			351	7001		
5						

Absolute Open Flow		309 Mcfd @ 15.025	Angle of Slope θ	50.4 deg.	Slope, n	0.8267
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Remarks: Static pressures by Bennett Wireline, flowing pressures by DWI	
Calculations worksheet C122D attached	

Approved By Commission:	Conducted By: Danny Matthews	Calculated By: Eddie Mahfood	Checked By:
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1. *Phragmites* (Common Reed)



6. 13

Trial	Control	MCI	AD
1	95	85	75
2	95	85	75
3	95	80	70
4	95	78	68
5	95	75	65

5-1220
Accepted 9-1-65

DATE _____

LOWERY

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1. *Introduction*

TABLE 1. *Continued*

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