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Form C-122
Revised 9-1-66

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

JAN 06 1981

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11/7/80	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Co.	
Pool Boyd <i>Morrow</i>		Formation Morrow	
Completion Date 8/30/80		Total Depth 9480 KB	Plug Back TD 9440 KB
Elevation 3445 KB		Farm or Lease Name Cotton MX Fed. Com.	
Cas. Size 5½	Wt. 17#	d 5	Set At 9480 KB
Perforations: From 9321 To 9328		Well No. 1	
Thg. Size 2 7/8	Wt. 6.5#	d 2.441	Set At 9282 KB
Perforations: From To		Unit C Sec. 14 Twp. 19S Rge. 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 9282 KB	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 150 @ 9324	Mean Annual Temp. °F 62	Baro. Press. - P _g 13.2
State New Mexico			
L 9315	H 9315	G _g 0.647	% CO ₂ 7.49
% N ₂ 0.39	% H ₂ S -	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							2045	56			Weeks
1.	2.067 X 0.500			330	13	65	1827	59			1½ hours
2.	2.067 X 0.500			330	26	65	1608	62			2 hours
3.	2.067 X 0.500			330	48	65	1047	64			2 hours
4.	2.067 X 0.500			330	69	65	661	65			2 hours
5.											

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	1.189	66.80	343.2	0.9952	1.243	1.032	101
2	1.189	94.46	343.2	0.9952	1.243	1.032	143
3	1.189	128.35	343.2	0.9952	1.243	1.032	195
4	1.189	153.89	343.2	0.9952	1.243	1.032	234
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
1	0.489	525	1.458	0.9392	-	-	0.647	XXXXXXX	702	360
2	0.489	525	1.458	0.9392	-	-	0.647	XXXXXXX	751	378
3	0.489	525	1.458	0.9392	-	-	0.647	XXXXXXX	751	378
4	0.489	525	1.458	0.9392	-	-	0.647	XXXXXXX	751	378
5										

P _r 3793.2	P _c 14388	(1) $\frac{P_r^2}{P_c^2 - P_r^2} = 1.4388$	(2) $\left[\frac{P_r^2}{P_c^2 - P_r^2} \right]^n = 1.28105$
NO	P _r	P _w	R _w
1		3521.0	12397
2		3087.4	9532
3		2557.6	6541
4		2094.8	4388
5			

Absolute Open Flow 300 Mcfd @ 15.025		Angle of Slope 55.75 deg.	Slope, n 0.6808
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Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT.
Calculations worksheet C122D attached

Approved By Commission:	Conducted By: Frank Moreno	Calculated By: Eddie Mahfood	Checked By:
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