

File Folder
C-122 File Form C-122
Revised 9-1-65

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

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-8-80		SEP 4 1980	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Co.				O.C.D.	
Pool Burton Flat Morrow				Formation Morrow				Unit ARTESIA CREEK	
Completion Date 4-20-80		Total Depth 11400'		Plug Back TD 11050'		Elevation 3153.8' GR		Farm or Lease Name So. Avalon "MA" Fed	
Csg. Size 5-1/2"	Wt. 17#	d 4.892	Set At 11388'	Perforations: From 10908 To 10954			Well No. 1		
Tbg. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 10882	Perforations: From To			Unit Sec. Twp. Rge. I 14 21S 26E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10882'		County Eddy			
Producing Thru Tubing		Reservoir Temp. °F 160° 10951'		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2		State New Mexico	
L 10942	H 10942	Cg 0.603	% CO ₂ 0.88	% N ₂ 0.30	% H ₂ S Nil	Prover	Meter Run 2"	Taps Flange	

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	Days
SI							3377	102			1 hour
1.	2.067 x 1.000			560	4	78	2543	103			1 hour
2.				560	8	78	2142	104			1 hour
3.				561	16	78	1727	105			1 hour
4.				562	30	78	1250	106			1 hour
5.											

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, Mcfd
1	4.946	47.88	573.2	.9831	1.000	1.044	243
2	4.946	67.72	573.2	.9831	1.000	1.044	344
3	4.946	95.85	574.2	.9831	1.000	1.044	487
4	4.946	131.36	575.2	.9831	1.000	1.044	667
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.849	538	1.511	.9181	1100/1	
2	0.849	538	1.511	.9181	54.0	
3	0.851	538	1.511	.9179	0.600	X X X X X X X X
4	0.852	538	1.511	.9178	X X X X X	0.603
5					675	865
					356	390

F _c 4354.2 P _c ² 18959				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.163$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.163$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1			11064	7895			
2			7868	11091			
3			5082	13977			
4			2653	16301			
5							

Absolute Open Flow 776 Mcfd @ 15.025				Angle of Slope 45 degrees		Slope, n 1.000	
Remarks: Static pressures by Bennett Wireline; Flowing pressures by DWT. Calculations worksheet C-122D attached. NOTE: Well appears to be loading up.							
Approved By Commission:		Conducted By: Don Weaver		Calculated By: Eddie Mahfood		Checked By:	