

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF + C-122

DEC 18 1981

Type Test ☒ Initial ☐ Annual		Date 10-19-81		O. C. D. ARTESIA, OFFICE	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Co.			
Pool Hoag Tank Morrow		Formation Morrow		Unit NM 14118	
Completion Date 7-7-81		Total Depth 9985 KB		Perforations 9902 KB 3662 KB	
Casing Size 5 1/2"		Well 17#		Perforations From 8850 To 8868 KB	
Tubing Size 2 3/8"		Well 4.7#		Perforations From 8820 To 8823 KB	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 8816 KB County Eddy State N. Mex.	
Producing Thru Tubing		Reservoir Temp. °F 145# 8859 KB		Mean Annual Temp. °F 62	
L 8851		H 8851		Cg .588	
				% CO ₂ 0.65	
				% H ₂ 0.30	
				% N ₂ Nil	
				Prover --	
				Meter Run 4"	
				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
1.	4.067	X	1.500	670	10.5	75	2703	74			Days
2.	4.067	X	1.500	689	20	76	2532	78			19 1/2 hrs.
3.	4.067	X	1.500	663	38	72	2412	80			24 hrs.
4.	4.067	X	1.500	675	64	70	2273	81			24 hrs.
5.							2108	81			24 hrs.

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	10.84	84.70	683.2	.9859	1.304	1.052	1242
2	10.84	118.51	702.2	.9850	1.304	1.052	1736
3	10.84	160.30	676.2	.9887	1.304	1.052	2357
4	10.84	209.87	688.2	.9905	1.304	1.054	3097
5							

NO.	P _i	Temp. °R	T _i	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	1.010	535	1.518	0.904			0.588	X X X X X X X X	676.5	352.5
2	1.038	536	1.520	0.903						
3	1.000	532	1.509	0.903						
4	1.017	530	1.504	0.900						
5										

P _i 3337.2 P _c 11137	
NO.	P _i ² F _w P _c ² P _c ² - P _w ²
1	9833 1304
2	8988 2149
3	8075 3062
4	7087 4050
5	

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.7499$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4773$$

$$A = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7672$$

Absolute Open Flow	7672	Mcf @ 15.025	deg. 48.11 deg.	Slope, n	0.8968
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Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. Calculations worksheet C-122D attached.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Danny Matthews	Eddie Mahfood	