

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65Copy 65F
122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-25-75	
Company Harvey E. Yates Co., Inc.				Connection None			
Pool Wildcat <i>Section Morrow</i>				Formation Morrow			
Completion Date 11-19-75		Total Depth 12810		Plug Back TD 11889		Elevation 3254 KB	
Csg. Size 4 1/2		Wt. 11.60 13.5		Set At 4.000 3.920		Perforations: From 11473 To 11849	
Thg. Size 2 3/8		Wt. 4.70		Set At 1.995		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11370		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 11300		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11661		H 11661		Gg 0.600		% CO ₂ % N ₂ % H ₂ S	
						Prover Pos. Ck.	
						Meter Run Taps	

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	24 hours			3648			3648		Pkr.		
1.	2"	X	8/64"	2941		66	2941	66	"		60 min.
2.	2"	X	9/64"	2415		70	2415	70	"		60 min.
3.	2"	X	10/64"	2104		70	2104	70	"		60 min.
4.	2"	X	11/64"	1602		69	1602	69	"		60 min.
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	0.2618		2954.2	0.9943	1.291	1.140	1131.77
2	0.3346		2428.2	0.9905	1.291	1.148	1192.70
3	0.4173		2117.2	0.9905	1.291	1.146	1294.72
4	0.5090		1615.2	0.9915	1.291	1.127	1186.01
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1	4.40	526	1.47	0.770	A.P.I. Gravity of Liquid Hydrocarbons	Dry Gas	Deg.
2	3.62	530	1.48	0.759	Specific Gravity Separator Gas	0.600	XXXXXXX
3	3.16	530	1.48	0.761	Specific Gravity Flowing Fluid	XXXXX	
4	2.41	529	1.48	0.788	Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	358	R

P _f 4753.2 P _f ² 22593				(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 3.0477539$		(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.745782$	
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²			
1		3896.2	15180	7413			
2		3309.2	10951	11642			
3		3008.2	9049	13544			
4		2517.2	6336	16257			
5							

Absolute Open Flow		1975.82	Mcf/d @ 15.025	Angle of Slope	63° 26'	G.C.C. 0.5000
Remarks: BHP measured with Amerada RPG-3 gauge serial no. 31203 0-6000 psi.						
Approved By Commission:		Conducted By:		Calculated By:		Checked By:
		Tefteller, Inc.		B. Combost		