

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-12-81		DEC 21 1981	
Company M. W. J. Producing Company /						Atmosphere			
Pool <i>Crow Flats</i> <i>Wildcat</i>						Morrow		Unit O. C. D.	
Completion Date 10-18-81				Well No. 9340		9340 9248		Elevation 3439 G1.	
Csg. Size 4 1/2"		Wt. 9.5#		Set At 4.090		9340		Perforations: From 9032 To 9044	
Tbg. Size 2 3/8"		Wt. 4.7#		Set At 1.995		9017'		Perforations: From OPENENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 8986		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 182 @ 9038		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State New Mexico	
L 9038		H 9038		G _g .6543		% CO ₂ .432		% N ₂ .547	
						% H ₂ S -0-		Prover -0-	
								Meter Run 4"	
								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	
SI							2627		PKR.	CHOKE	24 HRS.
1.	4"	X	1.5"	500	28"	75°	2580	54		12/64	1 HR.
2.	4"	X	1.5"	500	42"	71	2565	59		13/64	45 MIN.
3.	4"	X	1.5"	490	76"	69	2525	61		15/64	30 MIN.
4.	4"	X	2.0"	480	46"	59	2450	63		19/64	30 MIN.
5.	4"	X	2.0"	510	66"	54	2367	64		22/64	30 MIN.

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	10.84	119.87	513.2	.9859	1.237	1.048	1661
2	10.84	146.81	513.2	.9896	1.237	1.050	2046
3	10.84	195.56	503.2	.9915	1.237	1.049	2727
4	19.81	150.62	493.2	1.001	1.237	1.052	3887
5	19.81	185.83	523.2	1.006	1.237	1.057	4842

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 42.78 Mcf/bbl.	
1	.765	535	1.43	.910	A.P.L. Gravity of Liquid Hydrocarbons 63.6 @ 60 Deg.	
2	.765	531	1.42	.907	Specific Gravity Separator Gas .6543 X X X X X X X X	
3	.750	529	1.42	.909	Specific Gravity Flowing Fluid X X X X X .7180	
4	.735	519	1.39	.903	Critical Pressure 671 P.S.I.A. 669 P.S.I.A.	
5	.780	514	1.38	.895	Critical Temperature 373 R 396 R	

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 5.41797$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2.7739$
1	2593.2	6724.7	223.3			
2	2578.2	6647.1	300.9			
3	2538.2	6442.5	505.5			
4	2463.2	6067.4	880.6			
5	2380.2	5665.4	1282.4			

Absolute Open Flow 13,431 Mcfd @ 15.025		Angle of Slope @ 58° @ 53'		Slope, n .6038	
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Remarks: The well made approx. 12 Bbls. of Condensate during the test.			
Approved By Commission:	Conducted By: W.S.	Calculated By: M.K.	Checked By: M.K.