

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

Form C-122
Revised 9-1-65

5th File
122

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-4-79			
Company Perry R. Bass				Connection None			
Pool <i>Southwest Indian State</i> <i>Wildcat Morrow Gas pool</i>				Formation Morrow		Unit Big Eddy Unit	
Completion Date 5-3-79		Total Depth <i>12,652 12686</i>		Plug Back TD <i>12309</i> 12,300		Elevation <i>3112' 6L</i> <i>3130' KB</i>	
Dsg. Size 5 1/2		Wt. 17		Set At <i>12673</i> 12,652		Perforations: From 11,966 To 12,215	
Tng. Size 2 3/8		Wt. 4.7		Set At 11,900		Perforations: From To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single				Packer Set At 11,900		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 194 @ 11937		Mean Annual Temp. °F 68		Baro. Press. - P _a 13.2	
L 11,900		H 11,900		Gg .62		% CO ₂ None	
				% N ₂ None		% H ₂ S None	
				Prover None		Meter Run 4.026	
						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							3459				
1.	4.026		.625	305	10	72	3263	70			60 Min.
2.	4.026		.625	550	37	85	2820	74			60 Min.
3.	4.026		.625	640	45	85	2642	73			60 Min.
4.	4.026		.625	530	75	85	2366	74			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	1.845	56.41	318.2	.9887	1.270	1.028	134
2	1.845	134.25	563.2	.9768	1.270	1.044	321
3	1.845	171.45	653.2	.9768	1.270	1.052	413
4	1.845	201.85	543.2	.9768	1.270	1.043	482
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.47	532	1.45	.946	A.P.L. Gravity of Liquid Hydrocarbons	Deg.
2	.84	545	1.49	.917	Specific Gravity Separator Gas .62	X X X X X X X X
3	.97	545	1.49	.904	Specific Gravity Flowing Fluid	X X X X X
4	.81	545	1.49	.919	Critical Pressure 671	P.S.I.A.
5					Critical Temperature 365	R

P _c 5227.2 P _c ² 27324					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7459$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.57$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		5072.2	25727	1597				
2		4597.2	21134	6190				
3		4408.2	19432	7892				
4		4168.2	17373	9951				
5								

Absolute Open Flow 1239			Acid @ 15.025		Angle of Slope @ 47.5		Slope, n .91	
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Remarks: PW Substituted for Pt Measured with Amerada Instrument No. 40091	
O - 6000# Element	

Approved By Commission:	Conducted By: Pyle	Calculated By: Spruell	Checked By: Pyle
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