

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-30-79	
Company Bass Enterprises Prod. Co.				Connection None			
Pool Wildcat				Formation Morrow		Unit	
Completion Date 11-30-79		Total Depth 12,307		Plug Back TD 12,250		Elevation KB 4067	
Casing Size 5 1/2		Set At 12,306		Perforations: From 12,045 To 12,192		Well No. 36-1	
Tubing Size 2 3/8		Set At 11,950		Perforations: From To		Unit Sec. Twp. Rge. 36 15S 34E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,950	
Producing Thru Tubing		Reservoir Temp. °F 187 @ 11959		Mean Annual Temp. °F 68		Baro. Press. - P _a 13.2	
L 11,950		H 11,950		G _g .6735		% CO ₂ None	
				% N ₂ None		% H ₂ S None	
				Prover		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.	
SI							3812			
1.	4.026		.750	280	3.5	51	3114	58	Packer	
2.	4.026		.750	285	19.0	82	2802	59		
3.	4.026		.750	295	36.0	85	2382	58		
4.	4.026		.750	295	46.0	89	1947	59		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.661	32.03	293.2	1.009	1.219	1.034	108
2	2.661	75.27	298.2	.9795	1.219	1.029	246
3	2.661	105.33	308.2	.9768	1.219	1.028	343
4	2.661	119.06	308.2	.9732	1.219	1.028	386
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	None Made	Mcfd/bbl.
1.	.438	511	1.34	.936	A.P.I. Gravity of Liquid Hydrocarbons		Deq.
2.	.445	542	1.42	.944	Specific Gravity Separator Gas	.6735	X X X X X X X X
3.	.460	545	1.43	.947	Specific Gravity Flowing Fluid	X X X X X	
4.	.460	549	1.44	.947	Critical Pressure	669	P.S.I.A.
5.					Critical Temperature	382	R

P _c 5402.2	P _c ² 29184	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6088$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5312$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	4799.2	23032	6152
2	4258.2	18132	11052
3	3836.2	14716	14468
4	3323.2	11044	18140
5			

Absolute Open Flow	591	Mcfd @ 15.025	Angle of Slope	48	Slope, n	.8959
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Remarks: P_w Substituted for P_t - Measured with Amerada Instrument No. 33109 0 - 7000#

Element

Approved By Commission:	Conducted By: Richburg	Calculated By: Spruell	Checked By: Richburg
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RECEIVED

APR 2 '80

OIL CONSERVATION DIV.