NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED BY
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Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date	
Company: BTA OIL PRODUCERS ✓		Connection: El Paso Gas Transportation Company			
Pool: Baldridge Canyon Gas Pool (Morrow)		Formation: Morrow		Unit	
Completion Date: 2-20-87	Total Depth: 10,494'	Plug Back TD: 10,141'	Elevation: 3,943' KB	Farm or Lease Name: ~~Rock Tank~~, 8612 JV-P (Rock Tank)	
Csg. Size: 5-1/2 / Wt.: 17# / d: / Set At: 10,494'		Perforations: From 10,062' To 10,076'		Well No.: 1	
Tbg. Size: 2-7/8 / Wt.: 6.5# / d: / Set At: 9,833		Perforations: From To		Unit: I / Sec.: 35 / Twp.: 23-S / Rge.: 24-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9,833'		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 169° @ 10,481'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9,833	9,833	.605	0.80	0.29	0.0		3.068	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					3120		Pkr	65	SI hours
1.	3.068 X 1.000"	306	60	68	1230	75	Pkr		60 min.
2.	3.068 X 1.000"	306	64	68	780		Pkr		60 min
3.	3.068 X 1.000"	315	70	68	470		Pkr		60 min
4.	3.068 X 1.250"	207	44	68	290		Pkr		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	4.789	138.39	319.2	0.9924	1.286	1.025	867
2.	4.789	142.93	319.2	0.9924	1.286	1.025	895
3.	4.789	151.57	328.2	0.9924	1.286	1.026	950
4.	7.561	98.43	220.2	0.9924	1.286	1.017	966
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.48	528	1.50	0.951
2.	.48	528	1.50	0.951
3.	.49	528	1.50	0.950
4.	.33	528	1.50	0.966
5.				

Gas Liquid Hydrocarbon Ratio 219 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 50.4° Deg.
Specific Gravity Separator Gas .605 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .619
Critical Pressure 671 P.S.I.A. 671 P.S.I.A.
Critical Temperature 360 R 365 R

P_c 3133.2 P_c^2 9816.9

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	1545.5		1554.5	8262.4
2	629.2		638.8	9178.1
3	233.5		244.2	9572.7
4	91.9		103.2	9713.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.033$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.033$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 998$

Absolute Open Flow 998 Mcfd @ 15.025 | Angle of Slope θ 45 | Slope, n 1.0000

Remarks: SI Bottom hole pressure measured w/Bomb

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	BTA OIL PRODUCERS	T. J. Williams	