

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

Form C-22
Revised 9-1-65
15F
File

MAR 21 '88

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 3 MAR 1988 11 02 AM '88							
Company BTA Oil Producers ✓			Connection El Paso Gas Transportation Co.			Office PENS					
Pool Crooked Creek			Formation Morrow			Unit					
Completion Date 12-09-87		Total Depth 9950		Plug Back TD 9824		Elevation 3933' KB		Farm or Lease Name 8710 JV-P Tank			
Csg. Size 5-1/2"	Wt. 17 & 23	d 4.548	Set At 9950'	Perforations: From 9733 To 9763		Well No. 1					
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 9491'	Perforations: From To		Unit Sec. Twp. Rge. P 33 23 24					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9492		County Eddy					
Producing Thru tbg		Reservoir Temp. °F 159 @ 9748		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State N.M.			
L 9491	H 9491	G _g 0.596	% CO ₂ 0.78	% N ₂ 0.26	% H ₂ S 0.0	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.	Temp. °F	Duration of Flow
SI	4.026 x 1.5000"								Pkr	60	SI 79 days
1.	4.026 x 1.5000"			405	5	85	2740	69	Pkr	60	60 min
2.	4.026 x 1.5000"			395	12.5	81	2539	71	Pkr	60	60 min
3.	4.026 x 1.5000"			405	26	81	2266	72	Pkr	60	60 min
4.	4.026 x 1.5000"			412	44	72	1920	71	Pkr	60	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	10.84	45.73	418.2	0.9768	1.295	1.030	646				
2	10.84	71.43	408.2	0.9804	1.295	1.030	1013				
3	10.84	104.27	418.2	0.9804	1.295	1.031	1480				
4	10.84	136.78	425.2	0.9887	1.295	1.033	1961				
5											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 565.2 Mcf/bbl.						
1.	0.62	545	1.54	0.943	A.P.I. Gravity of Liquid Hydrocarbons						
2.	0.61	541	1.53	0.942	Specific Gravity Separator Gas 0.596		XXXXXXXXXX				
3.	0.62	541	1.53	0.941	Specific Gravity Flowing Fluid		XXXXXX				
4.	0.63	532	1.50	0.937	Critical Pressure 672 P.S.I.A.		P.S.I.A.				
5.					Critical Temperature 354 R		R				
P _t 3696.2		P _t ² 13662									
NO.	P _t ²	P _s	P _s ²	P _t ² - P _s ²	(1) $\frac{P_t^2}{P_t^2 - P_s^2} = 1.812$		(2) $\left[\frac{P_t^2}{P_t^2 - P_s^2} \right]^n = 1.540$				
1		3479	12103	1559							
2		3237	10478	3184							
3		2898	8398	5264							
4		2474	6121	7541							
5					ACF = Q $\left[\frac{P_t^2}{P_t^2 - P_s^2} \right]^n = 3021$						
Absolute Open Flow 3021 Mcfd @ 15.025				Angle of Slope 54°				Slope, n .7270			
Remarks:											
Approved By Commission:			Conducted By: BTA Oil Producers			Calculated By: T. J. Williams			Checked By:		