

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

Form C-122  
 Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 5-18-76					
Company Burleson and Huff				Connection None							
Pool Jalmat				Formation Yates				Unit H			
Completion Date 5/18/76		Total Depth 2977		Plug Back TD		Elevation		Farm or Lease Name Dyer			
Csq. Size 6 5/8	Wt. d	Set At 2800	Perforations: From 2800 To 2977		open hole		Well No. 3				
Tbg. Size 2	Wt. d	Set At 2760	Perforations: From To				Unit 4	Sec. Twp. Rge. 31 25 37			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 2760		County Lea			
Producing Thru Tbg. L		Reservoir Temp. °F 102 @ 2760		Mean Annual Temp. °F		Baro. Press. - P <sub>a</sub>		State New Mexico			
L 2760	H 2760	G <sub>g</sub> 650 Assumed	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S	Prover 2"	Meter Run	Taps			
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							215				72 hr.
1.	2	x	1/16	202		81	202				1 hr.
2.	2	x	1/8	158		79	158				1 hr.
3.	2	x	3/16	104		78	104				1 hr.
4.	2	x	1/4	57		80	57				1 hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow O. Mcfd				
1	.06405		21.2	.9804	1.240	1.020	17				
2	.2648		171.2	.9822	1.240	1.015	56				
3	.6082		117.2	.9831	1.240	Nil	87				
4	1.087		70.2	.9813	1.240	Nil	93				
5											
NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio <u>dry</u> Mcf/bbl.		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.				
1	.32	541	1.44	.962	Specific Gravity Separator Gas _____		XXXXXXXXXXXX				
2	.26	539	1.44	.970	Specific Gravity Flowing Fluid _____		XXXXXXXXXX				
3	.17	538	1.43	Nil	Critical Pressure <u>670</u> P.S.I.A.		P.S.I.A.				
4	.10	540	1.44	Nil	Critical Temperature <u>375</u> R		R				
5											
P <sub>c</sub> <u>228.2</u>		P <sub>c</sub> <sup>2</sup> <u>52.08</u>									
NO.	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.361$		(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.303$				
1		215.2	46.3	5.78							
2		171.2	29.3	22.78							
3		117.5	13.8	38.28							
4		70.9	5.03	47.05	ACF = 0 $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .113$						
5											
Absolute Open Flow <u>113</u> Mcfd @ 15.025				Angle of Slope $\theta$ <u>49.25°</u>		Slope, n <u>.860</u>					
Remarks:											
Approved By Commission:			Conducted By: Rick Pagan			Calculated By: Rick Pagan			Checked By:		

REMOVED

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CONSERVATION COMM.  
HOBBBS, H. M.