

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 9-14-87		710 FSL	
Company CONOCO INC.				Connection EPNG		2200 FEL	
Pool EUNICE/MONUMENT				Formation EUNICE/QUEENS		Unit 0	
Completion Date 8-25-87		Total Depth 3801		Plug Back TD 3801		Elevation 3580	
Farm or Lease Name STATE "D"				Well No. 17			
Csg. Size 5.500		Wt. 14		Set At 5.012		3800	
Perforations: From 3486 To 3660							
Thg. Size 2.375		Wt. 4.7		Set At 1.995		3380	
Perforations: From OPEN To ENDED							
Type Well - Single - Drdthead - G.G. or G.O. Multiple SINGLE				Packer Set At 3380		County LEA	
Producing Thru TUBING		Reservoir Temp. °F 108° 3573		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 3573		H 3573		G _g 0.704		% CO ₂ 4.14	
				% N ₂ 1.18		% H ₂ S 0.61	
Prover Ø		Meter Run 4.026		Taps FLNG.			

FLOW DATA						TUBING DATA		BHP 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
Sl.							300	68	332	108	21.5 HRS.
1.	4.026	1.750	62	7.3	78	292	72	325	108	60 MIN	
2.	4.026	1.750	62	20.2	72	275	72	320	108	60 MIN	
3.	4.026	1.750	63	40.3	72	254	72	313	108	60 MIN	
4.	4.026	1.750	66	84.6	72	194	72	301	108	60 MIN	
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.93	23.49	75.7	0.9831	1.1914	1.0070	414
2	14.93	39.15	75.7	0.9887	1.1914	1.0073	693
3	14.93	55.56	76.6	0.9887	1.1914	1.0074	984
4	14.93	81.88	79.2	0.9887	1.1914	1.0076	1451
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.11	538	1.41	0.986	0	
2	0.11	532	1.39	0.986	0	
3	0.11	532	1.39	0.985	0.704	XXXXXXX
4	0.11	532	1.39	0.985	XXXXX	0.704
5						

NO.	P _t	P _w	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 9.900$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 8.4904$
1		308	95	4		
2		304	93	7		
3		298	89	10		
4		286	82	17		
5						

Absolute Open Flow 8354.5 Mcfd @ 15.025				Angle of Slope 47°		Slope, n 0.933	
Remarks: USED AMARADA PRESSURE BOMBS							
Approved By Division		Conducted By: Richard Townley		Calculated By: Richard Townley		Checked By:	

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