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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Conoco Inc.						Lease or Unit Name Jenna Fed. Com					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-7-1997		Well No. 1			
Completion Date 3-5-97		Total Depth 11,820'		Plug Back TD 11,779'		Elevation 3604'		Unit Lr. - Sec. - TWP - Rge. I 5 17-S 29-E			
Csg. Size 7"	Wt. 26#	d 6.276	Set At 11,810'	Perforations: From: 10442 To: 10491				County Eddy			
Tbg. Size 2.875	Wt. 6.5	d 2.441	Set At	Perforations: From: To:				Pool East South Empire MER			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Tubing Single						Packer Set At 10400		Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F 148@10442		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Conoco			
L 10442	H 10442	Gg .671	% CO ₂ 1	% N ₂ 1	% H ₂ S 0	Prover		Meter Run X		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									
1.	3.068X2.00		113	14.4	58	2691	74	Packer	
2.	3.068X2.000		113	27.0	62	2534	74		
3.	3.068X2.000		113	34.8	67	2463	74		
4.	3.068X2.000		113	60.8	52	2408	74		
5.			181			2113	74		

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, F _{pv}	Rate of Flow Q, Mcfd
1.	21.32	42.63	126.2	1.0019	1.2208	1.0143	1128
2.	21.32	58.37	126.2	.9981	1.2208	1.0142	1538
3.	21.32	66.27	126.2	.9933	1.2208	1.0138	1737
4.	21.32	108.78	194.4	1.0078	1.2208	1.0217	2913
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P. I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.19	518	1.37	.972	102	58.1	.671	XXXXXX	672	378
2.	.19	522	1.38	.972				XXXXXX	P.S.I.A. 671	R 388
3.	.19	527	1.39	.973				XXXXXX		
4.	.19	512	1.35	.958						
5.										

P_c **2704.2** P_c² **7312.7**

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	6488	2550	6502.5	810.2
2.	6132	2481	6155.4	1157.3
3.	5862	2428	5895.2	1417.5
4.	4520	2146	4605.3	2707.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.70$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = 2.199$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = 6400$

Absolute Open Flow 6400 Mcfd @ 15.025		Angle of Slope θ 51.6		Slope, n .793	
Remarks:					
Approved By Division		Conducted By: Tom Duncan		Calculated By: 915-332-5992 Dan Fleeman	
				Checked By:	