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appropriate district office
See Rule 401 & Rule 1122

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 JULIE COMM.					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-26-95		Well No. 3			
Completion Date 9-20-95		Total Depth 9350		Plug Back TD 9251		Elevation 9095.00		Twp. Sec. Rge. 17-19S-25E			
Csg. Size	Wt.	d	Set At	Perforations:		To: 9095.00		County EDDY			
7"	26#	6.276	9350	From: 9053							
Tbg. Size	Wt.	d	Set At	Perforations:		To: 9095.00		Pool BOYD MORROW			
2-7/8	6.5	2.441	8935	From:							
Type Well - Single - Bradenhead - G.G. or P.O. Multiple single						Packer Set At 8935		Formation MORROW			
Producing Thru TBG.		Reservoir Temp. °F 173		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection ATMOSPHERE			
L *8935	II 8935	G _s .598	% CO ₂ .95	% N ₂ .22	% H ₂ S	Prover		Meter Run 4.026		Taps FLG.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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	
SI						1985				
1.	4.026 X 2.00		330	2	96	1885		pk.		45 min
2.	4.026 X 2.00		330	6	94	1832		"		45 min
3.	4.026 X 2.00		330	22	96	1688		"		45 min
4.	4.026 X 2.00		350	82	82	1285		"		45 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, F _{pv}	Rate of Flow Q, Mcfd
1.	19.81	26.20	343.2	.9671	1.293	1.027	667
2.	19.81	45.38	343.2	.9688	1.293	1.027	1157
3.	19.81	86.89	343.2	.9671	1.293	1.027	2211
4.	19.81	172.58	363.2	.9795	1.293	1.029	4456
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS	Mcf/bbl
1.	.51	556	1.57	.948	DRY	Deg.
2.	.51	554	1.56	.948	DRY	Deg.
3.	.51	556	1.57	.948	DRY	Deg.
4.	.54	542	1.53	.945	DRY	Deg.
5.						

$p_c^2 = 2461.8$ $p_w^2 = 6060.5$					$1) \frac{p_c^2}{p_c^2 - p_w^2} = 2.006$ $(2) \left[\frac{p_c^2}{p_c^2 - p_w^2} \right]^n = 2.006$	
NO.	p_i^2	p_w	p_w^2	$p_c^2 - p_w^2$	$AOF = Q \left[\frac{p_c^2}{p_c^2 - p_w^2} \right]^n = 8.939$	
1.	*	2340.5	5477.9	582.6		
2.	*	2273.3	5167.9	892.6		
3.	*	2122.8	4506.3	1554.2		
4.	*	1743.3	3039.1	3021.4		
5.						

Absolute Open Flow 8,939 Mcfd @ 15.025		Angle of Slope θ 45	Slope, n 1.000
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Remarks: **BHP INST. SET @ THIS DEPTH**

***=BHP'S USED DIRECT**

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: KS	Checked By: BM
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