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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resou.

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: E.O.G. Resources, Inc.					Lease or Unit Name: Amtrack St. Com																																			
Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 5/11/00		Well No.: 2																																	
Completion Date: 3-28-00		Total Depth		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge. B 4 17 28																																
Csg. Size: 5 1/2"	Wt. 20#	D 4.767	Set At 9,965	Perforations: From: 9,575' To: 9,670'		County: Eddy																																		
Thg. Size: N/A	Wt. N/A	D N/A	Set At N/A	Perforations: From: N/A To: N/A		Pool Crow Flat Morrow SE																																		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single					Packer Set At: N/A		Formation: Morrow																																	
Producing Thru Csg.		Reservoir Temp. °F: 152.8 @ 9575'		Mean Annual Temp. °F: 60		Baro. Press - P _a : 13.2		Connection:																																
L 9575	H: 9575'	Gg: .637	%CO ₂ : .548	%N ₂ : .415	%H ₂ S:	Prover:	Meter Run 6.065	Taps: FLG																																
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																													
SI							N/A		1910		72 Hrs																													
1.	6"	x	3.000	364	4.3	76	N/A		1830		1 Hr.																													
2.	6"	x	3.000	422	10.8	54	N/A		1674		1 Hr.																													
3.	6"	x	3.000	466	19.6	45	N/A		1496		1 Hr.																													
4.	6"	x	3.000	481	27.7	48	N/A		1351		1 Hr.																													
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.	44.51		40.27	377.2	.9850	1.253	1.034	2,287																																
2.	44.51		68.56	435.2	1,006	1.253	1.044	4,016																																
3.	44.51		95.69	467.2	1,015	1.253	1.052	5,699																																
4.	44.51		117.00	494.2	1,012	1.253	1.056	6,973																																
5.																																								
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 52.708 Mcf/bbl.																																			
1.	.56	536	1.45	.936	A. P. I. Gravity of Liquid Hydrocarbons 58.0 @ 60 Deg.																																			
2.	.64	514	1.39	.917	Specific Gravity Separator Gas .637 XXXXXXXXXX																																			
3.	.69	505	1.37	.903	Specific Gravity Flowing Fluid XXXXXX G _{mix} = .692																																			
4.	.73	508	1.38	.897	Critical Pressure 670 P.S.I.A. 699 P.S.I.A.																																			
5.					Critical Temperature 368 R. 388 R																																			
P_c 1923.2 P_{c2} 3698.7 <table border="1"> <tr> <th>No.</th> <th>P_i²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1.</td> <td>N/A</td> <td>1843.6</td> <td>3398.9</td> <td>299.8</td> </tr> <tr> <td>2.</td> <td>N/A</td> <td>1688.6</td> <td>2851.3</td> <td>847.4</td> </tr> <tr> <td>3.</td> <td>N/A</td> <td>1572.3</td> <td>2287.2</td> <td>1411.5</td> </tr> <tr> <td>4.</td> <td>N/A</td> <td>1369.5</td> <td>1875.5</td> <td>1823.2</td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> (1) P_{c2} = 2.029 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.668$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11.631$											No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1.	N/A	1843.6	3398.9	299.8	2.	N/A	1688.6	2851.3	847.4	3.	N/A	1572.3	2287.2	1411.5	4.	N/A	1369.5	1875.5	1823.2	5.				
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1.	N/A	1843.6	3398.9	299.8																																				
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4.	N/A	1369.5	1875.5	1823.2																																				
5.																																								
Absolute Open Flow 11.631 Mcfd @ 15.025					Angle of Slope 0: 54.13		Slope, n: .7229																																	
Remarks: Well Produced 15.00 bbls of 58.0 API Gr. Condensate																																								
Approved By Division			Conducted By: Production Testing Services, Inc. 505-391-8703			Calculated By: Bob Murray, Independent Consultant 505-395-2349			Checked By: Bob Murray, Independent Consultant 505-395-2349																															

505-391-8703

[illegible]

Absolute Open Flow Field Data Sheet

E.O.G. RESOURCES, INC.

AMTRACK ST. COM. # 2

