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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87504

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OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator E.O.G. Resources, Inc.					Lease or Unit Name Barbie "23" St Com				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date		Well No. 1		
Completion Date		Total Depth 10940		Plug Back TD 1087		Elevation		Unit Ltr. - Sec. - TWP - Rge. 23-19-27	
Csg. Size 5 1/2	Wt. 17	d	Set At 10940	Perforations: From: 10491 To: 10716			County Eddy		
Thg. Size 2 7/8	Wt. 6.5	d	Set At 10390	Perforations: From: To:			Pool		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 10390		Formation Morrow		
Producing Thru 10390		Reservoir Temp. °F 177.9 @ 10390		Mean Annual Temp. °F 60		Baro. Press - P _s 13.2		Connection Sales	
L 10390	H 10390	Gg .621	%CO ₂ .620	%N ₂ .409	%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						1860		Pkr		48 hrs
1.	4 X 1.375		355		58	1800		Pkr		48 hrs
2.	4 X 1.375		359		63	1490		Pkr		48 hrs
3.	4 X 1.375		362		63	1340		Pkr		48 hrs
4.	4 X 1.375		366		63	1274		Pkr		48 hrs
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.							490
2.			Total Flow Meter				679
3.							870
4.							1058
5.							

No.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.					A. P. I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.					Specific Gravity Separator Gas	.621	XXXXXXXXXX
3.		N/A			Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	671	P.S.I.A. P.S.I.A.
5.					Critical Temperature	365	R. R.

No.	P _i	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1.	1873.2	3508.9				
1.			1813.9	3290.2	218.7	
2.			1504.8	2264.5	1244.4	
3.			1356.2	1893.3	1669.6	
4.			1291.9	1699.0	1839.9	
5.						

(1) $P_{c2} = 16.045$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.995$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.955$

Absolute Open Flow 1,955	Mcf/d @ 15.025	Angle of Slope θ: 63.5	Slope, n: .499
Remarks: No Fluid Produced			
Approved By Division	Conducted By: HRC Petroleum Svc	Calculated By: BM	Checked By: BM