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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 Marbob Energy Corp.						Lease or Unit Name Como Fee					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-6-97		Well No. 1			
Completion Date		Total Depth 10,450		Plug Back TD 10,368		Elevation 3403		Unit Ltr. - Sec. - TWP - Rge. 17-21S 73E			
Csg. Size 5 1/2"	Wt. d	Set At 10,450	Perforations: From: 10,259 To: 10,318				County Eddy				
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 10,184	Perforations: From: To:				Pool W. Catlaw Draw Mor			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,184		Formation Morrow			
Producing Thru Tbg.		Reservoir Temp. °F 171		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Flare			
L 10184	H 10184	Gg .593	% CO ₂ .84	% N ₂ .17	% H ₂ S .20	Prover		Meter Run 3,068		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							3035				24 Hrs.
1.	3	X	1.00	606	6.50	94	2702		Pkr.		1 Hr.
2.	3	X	1.00	578	15.50	95	2392		Pkr.		1 Hr.
3.	3	X	1.00	587	33.00	94	2005		Pkr.		1 Hr.
4.	3	X	1.00	579	57.00	93	1458		Pkr.		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 Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	4.789	63.44	619.2	.9688	1.299	1.038	397
2.	4.789	95.73	591.2	.9680	1.299	1.035	597
3.	4.789	140.74	600.2	.9688	1.299	1.036	879
4.	4.789	183.73	592.2	.9697	1.299	1.035	1,147
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcf/bbl.
1.	.92	554	1.56	.929	A.P. I. Gravity of Liquid Hydrocarbons	N/A	Deg.
2.	.87	554	1.56	.933	Specific Gravity Separator Gas	.593	XXXXXXXXXX
3.	.89	554	1.56	.932	Specific Gravity Flowing Fluid	N/A	XXXXXX
4.	.88	553	1.56	.933	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	354	R

P_c 3048.2 P_c² 9291.5

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		2716.1	7377.0	1914.6
2.		2407.4	5925.4	3496.2
3.		2033.7	4095.5	5196.0
4.		1484.4	2203.4	7088.2
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.311$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.252$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.436$

Absolute Open Flow 1,436 Mcfd @ 15.025	Angle of Slope θ 50.33	Slope, n 8291
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Remarks: **Well produced no oil or condensate during test.**

Approved By Division	Conducted By: Guardian	Calculated By: Bob Moore	Checked By: Bob Moore
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