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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 Burlington Resources Oil & Gas Company							Lease or Unit Name East Millman				
Type Test ☒ Initial ☐ Annual ☐ Special							Test Date 1-10-97		Well No. 13 Federal Com. 1		
Completion Date 1-6-97		Total Depth 11,300		Plug Back TD 11,070		Elevation 3375		Unit Ltr. - Sec. - TWP - Rge. B 13- 19- 28			
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11,302	Perforations: From: 9785 To: 9853		Country Eddy					
Tbg. Size 2-3/8	Wt. 4.7	d 1.995	Set At 9,700	Perforations: From: To: 		Pool Winchester, Upper Penn					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9,700		Formation Canyon					
Producing Thru Tbg. 		Reservoir Temp. °F 161.3		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Vented			
L 9700	H 9700	Gg .769	% CO ₂ 1.50	% N ₂ 1.37	% H ₂ S 	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							1984		PKR		48 Hours
1.	3	X	1.250	80	10.24	48	1920		"		1 Hour
2.	3	X	1.250	85	27.04	65	1734		"		1 Hour
3.	3	X	1.250	85	81.00	57	1573		"		1 Hour
4.	3	X	1.750	84	23.04	64	1165		"		1 Hour
5.	3	X	1.750	84	36.00	65	787		"		1 Hour

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.	7.577	30.89	93.2	1.012	1.140	1.013	274
2.	7.577	51.53	98.2	.9952	1.140	1.012	448
3.	7.577	89.19	98.2	1.003	1.140	1.012	782
4.	15.61	47.32	97.2	.9962	1.140	1.012	849
5.	15.61	59.15	97.2	.9952	1.140	1.012	1,060

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.	.13	508	1.24	.975	20.315	
2.	.14	525	1.28	.977	55.7	
3.	.14	517	1.26	.976	.769	
4.	.14	524	1.28	.977	XXXXXX	XXXXXXX
5.	.14	525	1.28	.977	**670	G Mix = .906

NO.	P _i	P _w	P _c	P _c ² - P _w ²
1.	2032.6	2008.4	4033.7	97.8
2.		1883.6	3546.4	585.1
3.		1739.5	3025.9	1106.6
4.		1504.6	2263.8	1867.7
5.		1125.2	1266.1	2865.4

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.442$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 1.222$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 1.299$

Absolute Open Flow **1,299** Mcfd @ 15.025

Angle of Slope θ **61.4**

Slope, n **.544**

Remarks: *Calculated from known BHP's

Well produced 7.00 bbls 55.7 @ 60° API Condensate

Approved By Division	Conducted By: West-Test, Inc.	Calculated By: BM	Checked By: BM
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