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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 InterCoast Oil and Gas Company						Lease or Unit Name Illinois Camp St. 21					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-27-97		Well No. 1			
Completion Date 3-19-97		Total Depth 10670		Plug Back TD 10619		Elevation 3596 K.B.		Unit Ltr. - Sec. - TWP - Rge. K 21 18 28			
Csg. Size 4 1/2	Wt. 11.6	d 	Set At 10663	Perforations: From: 10448 To: 10464				County Eddy			
Tbg. Size 2-3/8	Wt. 4.7	d 1.995	Set At 10437	Perforations: From: Open To: End				Pool Illinois Camp			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		Formation Morrow			
Producing Thru Tbg.		Reservoir Temp. °E 178.4@10437		Mean Annual Temp. °F 60°		Baro. Press - P. 1012 COR. P.W.		Connection LGS Nat.			
L 10437	H 10437	Gg .685	% CO ₂ 3.44	% N ₂ .37	% H ₂ S 	Prover 	Meter Run 2.067	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							2289		2289		72 Hours
1.	2	X	1.000	554	7.30	79	2205				1 Hour
2.	2	X	1.000	550	21.50	71	2090				1 Hour
3.	2	X	1.000	548	42.00	64	1950				1 Hour
4.	2	X	1.000	544	62.50	48	1805				1 Hour
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.	4.946	64.35	567.2	.9822	1.208	1.059	400
2.	4.946	110.04	563.2	.9896	1.208	1.077	701
3.	4.946	153.53	561.2	.9962	1.208	1.078	985
4.	4.946	186.62	557.2	1.012	1.208	1.076	1,214
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcf/bbl
1.	.86	539	1.41	.892	A.P. I. Gravity of Liquid Hydrocarbons	N/A	Deg.
2.	.85	531	1.39	.862	Specific Gravity Separator Gas	.685	XXXXXXXXXX
3.	.85	524	1.37	.861	Specific Gravity Flowing Fluid	XXXXXX	
4.	.84	508	1.33	.863	Critical Pressure	*657	P.S.I.A. P.S.I.A.
5.					Critical Temperature	*380	R R

P _c 2302.2		P _c ² 5300.1	
NO.	P _t ²	P _w	P _w ²
1.		2219.3	4925.3
2.		2106.8	4438.5
3.		1970.8	3883.9
4.		1830.6	3351.0
5.			

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.719$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.383$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.963$$

Absolute Open Flow	2,383	Mcf/d @ 15.025	Angle of Slope θ	56.0	Slope, n	.6741
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Remarks: ***=Corrected to 3.44% CO2**
No Fluid Produced.

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