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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

JUN 16 1993

C.O.D.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Nearburg Producing Company						Lease or Unit Name Sueno 15					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6/10/93		Well No. 1			
Completion Date 4/29/93		Total Depth 10,610		Plug Back TD 5000'		Elevation 3097'		Unit Ltr. - Sec. - TWP - Rge. E 15 22s 27e			
Csg. Size 5 1/2	Wt. 20#	d 4.778	Set At 10,610	Perforations: From: 4829 To: 4835				County Eddy			
Tbg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 4701	Perforations: From: Open To: Ended				Pool <i>Esperanza Del Norte</i>			
Type Well: Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 4701				Formation Delaware			
Producing Thru Tubing		Reservoir Temp. °F 121 @ 4701		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Llano			
L 4701	H 4701	Gg 0.728	% CO ₂ 0.01	% N ₂ 6.15	% H ₂ S	Prover		Meter Run 3.068	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						1375	60	PACKER		68 Hrs.
1.	3.068 x 0.500		630	6.00	70	1252				1 Hr.
2.	3.068 x 0.500		630	15.00	69	1148				1 Hr.
3.	3.068 x 0.500		625	26.00	71	1031				1 Hr.
4.	3.068 x 0.500		620	43.00	74	909				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.	1.183	62.12	643.2	.9905	1.172	1.067	91
2.	1.183	98.22	643.2	.9915	1.172	1.078	146
3.	1.183	128.81	638.2	.9896	1.172	1.067	186
4.	1.183	165.01	633.2	.9868	1.172	1.066	241
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	55.4	Mcf/bbl.
1.	.97	530	1.39	.879	A.P.I. Gravity of Liquid Hydrocarbons	55.0 @ 60°	Deg.
2.	.97	529	1.38	.860	Specific Gravity Separator Gas	0.728	XXXXXXXXXX
3.	.97	531	1.39	.879	Specific Gravity Flowing Fluid	XXXXXX	GMIX = .780
4.	.96	534	1.40	.880	Critical Pressure * 657	P.S.I.A. * 655	P.S.I.A.
5.					Critical Temperature * 381	R * 401	R

P _c 1388.2 P _c ² 1927.1					1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.792$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.612$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .388$			
1.		1265.3	1600.9	326.2				
2.		1161.3	1348.7	578.4				
3.		1044.9	1091.9	835.2				
4.		922.8	851.5	1075.6				
5.								

Absolute Open Flow 388 Mcfd @ 15.025		Angle of Slope Θ 51	Slope, n .8187
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Remarks: * Corrected to 6.15% N2

Well made 1/2 bbl. of 55.0 API GR cond. @ 60°

Approved By Division	Conducted By: Jarrel Services, Inc.	Calculated By: Bob Murray	Checked By: Bob Murray
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