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appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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Form C-122
Revised 4-1971

DEC - 6 1991

O. C. D.
ARTESIA OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>Union Oil Company of California</u>						Lease or Unit Name <u>Calvani Com</u>					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date <u>11-26-91</u>		Well No. <u>1</u>			
Completion Date <u>11-12-91</u>		Total Depth <u>11765</u>		Plug Back TD <u>11187</u>		Elevation		Unit Ltr. - Sec. - TWP - Rge. <u>K 9 22S 27E</u>			
Csg. Size <u>5 1/2</u>	Wt. <u>17#</u>	d	Set At <u>11762</u>	Perforations: From: <u>10702</u> To: <u>10710</u>				County <u>Eddy</u>			
Tbg. Size <u>2 3/8</u>	Wt. <u>4.7</u>	d	Set At <u>10700</u>	Perforations: From: To:				Pool <u>South Carlsbad</u>			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <u>Single</u>						Packer Set At <u>10623'</u>		Formation <u>Atoka</u>			
Producing Thru tubing		Reservoir Temp. °F <u>181 @ 10700</u>		Mean Annual Temp. °F <u>60</u>		Baro. Press - P _a <u>13.2</u>		Connection <u>Llano, Inc.</u>			
L <u>10700</u>	H <u>10700</u>	Gg <u>.594</u>	% CO ₂ <u>.46</u>	% N ₂ <u>.91</u>	% H ₂ S	Prover		Meter Run <u>2.067</u>		Taps <u>flange</u>	

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						4200		PKR		72 hrs.
1.	2	X .750	660	17.00	65	670		PKR		24 hrs.
2.										
3.										
4.										
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.	2.709	106.98	673.2	.9952	1.298	1.060	397
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>DRY GAS</u> Mcf/bbl.			
1.	1.00	525	1.48	.890	A.P. I. Gravity of Liquid Hydrocarbons <u>DRY</u> Deg.			
2.					Specific Gravity Separator Gas <u>.594</u> XXXXXXXXXX			
3.					Specific Gravity Flowing Fluid <u>XXXXXX</u>			
4.					Critical Pressure <u>672</u> P.S.I.A. P.S.I.A.			
5.					Critical Temperature <u>354</u> R R			

P_c 4213.2 P_c² 17751.1

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		687.1	472.1	17279.0
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.027$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.027$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .408$

Absolute Open Flow <u>408</u> Mcfd @ 15.025	Angle of Slope θ <u>45</u>	Slope, n <u>1.000</u>
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Remarks: _____

Approved By Division	Conducted By: <u>Pro Well Testers</u>	Calculated By: <u>BM</u>	Checked By: <u>BM</u>
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Inocal
Calvani Com., Well #1

Eddy County, New Mexico
11-26-91

