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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <i>Louis Dreyfus</i>					Lease or Unit Name <i>State ETA</i>				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date <i>1-8-00</i>		Well No. <i>3</i>		
Completion Date <i>1-6-00</i>		Total Depth <i>11895</i>		Plug Back TD <i>11895</i>		Elevation		Unit Ltr. - Sec. - TWP - R. & E.	
Csg. Size <i>5 1/2</i>	Wt. <i>17#</i>	d <i>4.892</i>	Set At <i>11895</i>	Perforations: From: <i>11809</i> To: <i>11827</i>			County <i>Lea</i>		
Thg. Size	Wt.	d	Set At	Perforations: From: To:			Pool		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <i>Single</i>					Packer Set At <i>None</i>		Formation		
Producing Thru <i>Tbg</i>		Reservoir Temp. °F <i>60</i>		Mean Annual Temp. °F <i>60</i>		Baro. Press - P _a <i>13.2</i>		Connection <i>air</i>	
L <i>11818</i>	H <i>11818</i>	Gg <i>.691</i>	P _{co2} <i>5.702</i>	P _{oN2} <i>1.225</i>	P _{oH2S} <i>0</i>	Prover <i>0</i>	Meter Run <i>3.068</i>	Taps <i>F/G</i>	

FLOW DATA					TUBING DATA		CASING DATA		Duration	
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	Of Flow
SI							N/A	924	N/A	
1	2.000 X 3.068		150	10"	62°			630		60 min
2	2.000 X 3.068		160	19"	62°			530		60 min
3	2.000 X 3.068		170	38"	62°			410		60 min
4	2.000 X 3.068		150	50"	62°			220		60 min
5										

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 HOUR)	h _w P _m	Pressure P _m	Flow Temp Factor Ft	Gravity Factor F _g	Super Compress. Factor. F _{pv}	Rate of Flow Q, Mc/d
1	21.32	40.4	163.2	.9981	1.203	1.028	1063
2	21.32	57.4	173.2	.9981	1.203	1.028	1510
3	21.32	83.4	183.2	.9981	1.203	1.028	2194
4	21.32	90.3	163.2	.9981	1.203	1.028	2376
5							

No.	P _i	Temp °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.75	522	1.62	.946	N/A	
2	.75	522	1.62	.946	A.P.I. Gravity of Liquid Hydrocarbons N/A	Deg.
3	.75	522	1.62	.946	Specific Gravity Separator Gas .691	XXXXX XXXXX
4	.75	522	1.62	.946	Specific Gravity Flowing Fluid N/A	XXXXX
5					Critical Pressure 692 P.S.I.A.	P.S.I.A.
					Critical Temperature 322 R.	R

P _c 937.2		P _c ² 878.3	
No.	P _i ²	P _w	P _w ²
1	413.7	643.6	414.2
2	295.1	544.0	296.0
3	179.1	425.5	181.1
4	54.4	238.2	56.7
5			

(1) $P_{c2} = 1.06$

$\frac{P_{c2}^2 - P_w^2}{P_{c2}^2 - P_w^2}$

AOF = Q

(2) $\left[\frac{P_{c2}^2}{P_{c2}^2 - P_w^2} \right]^n = 1.06$

$\left[\frac{P_{c2}^2}{P_{c2}^2 - P_w^2} \right]^n = 2518$

Absolute Open Flow <i>2518</i>	Mcf/d @ 15.025	Angle of Slope θ: <i>45°</i>	Slope, n: <i>1.000</i>
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Remarks: **No liquid made during Test*

Approved By Division	Conducted By: <i>Pro Well Testing</i>	Calculated By: <i>M.B.</i>	Checked By: <i>B.M.</i>
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