

Submit in duplicate to
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

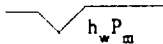
OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Matador Operating Co.						Lease or Unit Name Grynberg 11 Fed. Com.					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-1-95		Well No. 2			
Completion Date 11-20-95		Total Depth 11708		Plug Back TD 10943		Elevation 3326		Unit Ltr. - Sec. - TWP - Rge. 11-25-26			
Csg. Size 4 1/2"	Wt. 7"	d	Set At 10943	Perforations: From: 10650 To: 10654				County Eddy			
Tbg. Size 2-3/8"	Wt. 4.7	d	Set At 10312	Perforations: From: To:				Pool White City Penn.			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10312		Formation Atoka			
Producing Thru Tbg		Reservoir Temp. °F		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection Vented			
L 10650	H 10650	Gg .604	% CO ₂ .63	% N ₂ .46	% H ₂ S	Prover	Meter Run 4.026	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							4960		Pkr		72 Hours
1.	4	X	1.500	345	8.00	89	2830		"		225 Min.
2.	4	X	1.500	345	14.00	80	1850		"		165 Min.
3.	4	X	1.500	360	17.00	89	1060		"		90 Min.
4.	4	X	1.500	360	19.00	90	860		"		90 Min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	10.84	53.53	358.2	.9732	1.287	1.028	747
2.	10.84	70.82	358.2	.9813	1.287	1.028	997
3.	10.84	79.65	373.2	.9732	1.287	1.029	1113
4.	10.84	84.21	373.2	.9723	1.287	1.029	1175
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.53	549	1.53	.946	A.P. I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	.53	540	1.50	.946	Specific Gravity Separator Gas	.604	XXXXXXXXXX
3.	.55	549	1.53	.944	Specific Gravity Flowing Fluid	XXXXXX	
4.	.55	550	1.53	.944	Critical Pressure	671	P.S.I.A. P.S.I.A.
5.					Critical Temperature	358	R R

P _c 4973.2 P _c ² 24732.7				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		2846.2	8100.7	16632.0
2.		1871.1	3500.8	21231.9
3.		1091.1	1190.4	23542.3
4.		898.1	806.6	23926.1
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.034$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 1.215$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 1.034$

Absolute Open Flow	1,215	Mcf @ 15.025	Angle of Slope θ	45	Slope, n	1.000
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Remarks: Well made 5.52 bbls N20 during test.

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