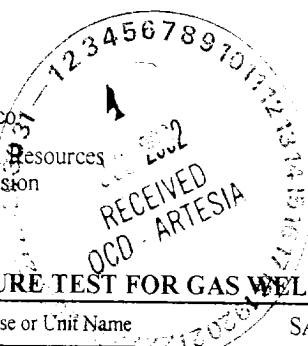


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999



C19K

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator DOMINION				Lease or Unit Name SARAGOSA "10"			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/1/02		Well No. 1	
Completion Date		Total Depth 12000		Plug Back TD 10885		Elevation	
Csg. Size 4 1/2		Wt. d 13		Set At 3.92		Perforations: From: 10796 To: 10857	
Tbg. Size 2 3/8		Wt. d 4.7		Set At 1.995		Perforations: From: To:	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10715		Formation ATOKA	
Producing Thru Tubing		Reservoir Temp. °F 193		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10715		H 10715		Gg 0.626		%CO ₂ 3.502	
				%N ₂ 0.713		%H ₂ S N/A	
				Prover N/A		Meter Run 4.027	
						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						4194	N/A	PKR	N/A			
1	4.027 X 2.000		381	15.7	71	3922						
2	4.027 X 2.000		388	26.7	69	3638						
3	4.027 X 2.000		393	36.2	60	3421						
4	4.027 X 2.000		398	62.1	60	2893						
5												

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1							2019
2							2766
3	TOTAL	FLOW	METER				2893
4							3997
5							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	97.292	Mcf bbl
1					A.P. I. Gravity of Liquid Hydrocarbons	56 @ 60	Deg.
2					Specific Gravity Separator Gas	0.626	XXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid	N/A	XXXXXX G.MIX = .656
4					Critical Pressure	685	P.S.I.A. 684 P.S.I.A.
5					Critical Temperature	356	R. 366 R.

P _c 4207.2 P _{c2} 17700.5				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		3929.6	15442.1	2258.4
2		3653	13344.3	4356.3
3		3438	11820	5880.6
4		2929.4	8581.3	9119.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.941}{\quad}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{5.563}{\quad}$

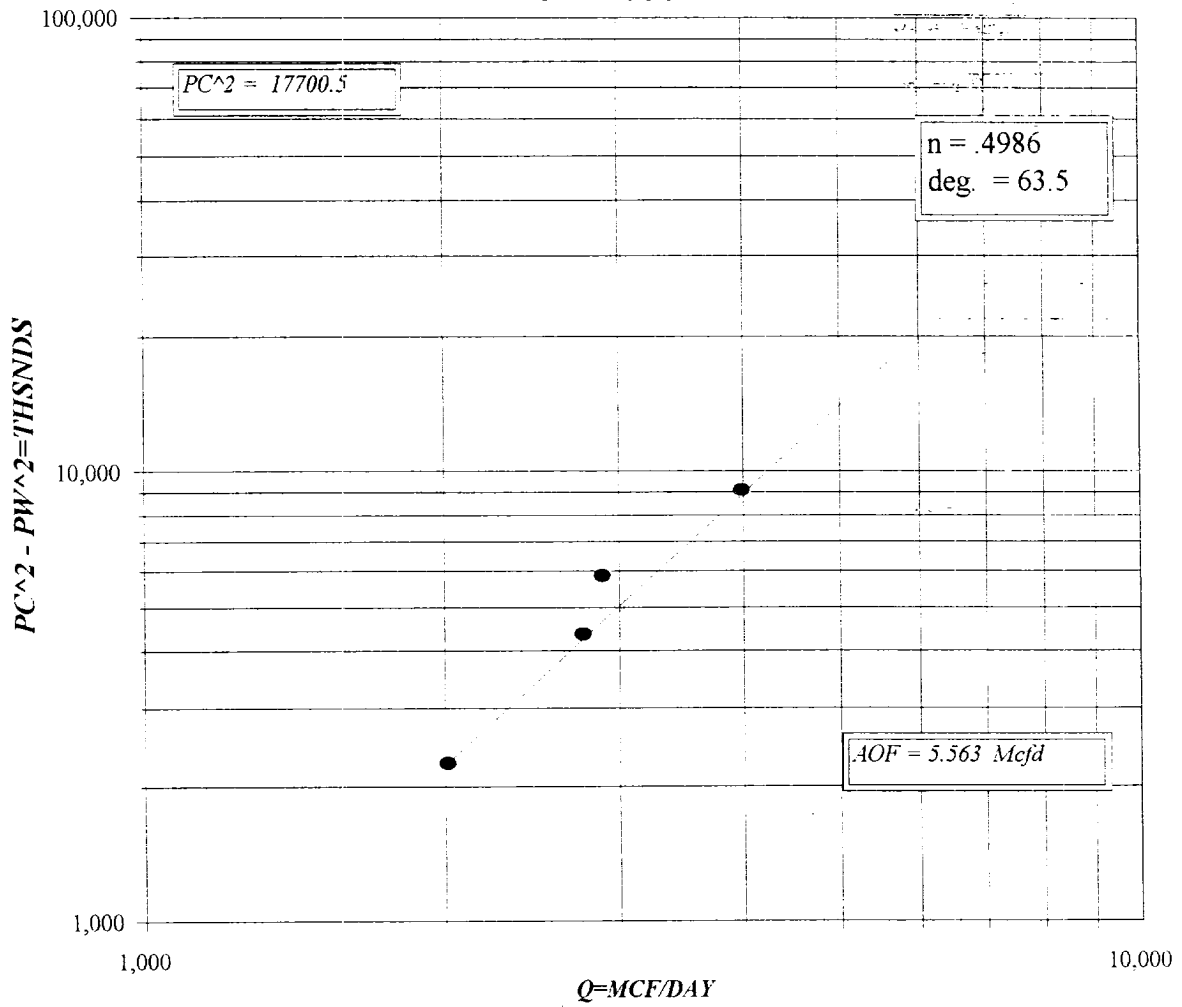
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.392}{\quad}$

Absolute Open Flow	5.563	Mcf/d @ 15.025	Angle of Slope (°)	63.5	Slope n:	0.4986
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Remarks: * WELL MADE 5 BBLs OF 56 API GRAVITY CONDENSATE DURING TEST.

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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DOMINION
SARAGOSA "10" #1



COMPANY	DOMINION	LEASE	SARAGOSA 110'	WELL NO.	1		Pc = 4207.2	Pc2 = 17700.5
UNIT		SECTION	10	TOWNSHIP	23-S			
L	10715	H	10715	L/H	1	G/GMIX	0.656	
%CO2	3.502	%N2	0.713	H2S		DATE	4/1/02	
d	1.995	Fr	0.010763	GH	8197.0	RANGE	26-E	
							11703.2	3438.0
							8369.4	2929.4
VOL 1	2019	PSIA 1	3922.0	RESV.TEMP	193.0		Pc2.Pw2 = 2258.4	Pw2 = 15442.1
VOL 2	2766	PSIA 2	3638.0				4356.3	13344.3
VOL 3	2893	PSIA 3	3421.0	SHUT-IN PRE =	4194		5880.6	11920.0
VOL 4	3997	PSIA 4	2893.0				9119.3	8581.3
							n = 0.499	
							Pc2/(Pc2-Pw2) =	7.938
								4.063
								3.010
								1.941
							[Pc2/Pc2-Pw2]n =	2.792
								2.012
								1.732
								1.392
							AOF = Q	5.636
								5.565
								5.011
								5.563
1 QM	2.019	2.019	2.766	2.766	2.893	2.893	3.997	3.997
2 TW	534	534	534	534	534	534	534	534
3 Ts	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
4	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
PR (est)	5.73	5.73	5.32	5.00	5.00	5.00	4.23	4.23
5 Z(est)	0.866	0.913	0.850	0.891	0.839	0.874	0.819	0.840
6 TZ	514.2	542.1	504.4	528.7	497.8	519.0	496.0	498.8
7 GH/TZ	15.942	15.122	16.251	15.504	16.466	15.794	16.866	16.434
8 eS	1.818	1.763	1.839	1.789	1.854	1.808	1.882	1.852
9 i.e.S	0.450	0.433	0.456	0.441	0.461	0.447	0.469	0.460
10 Pr	3922.0	3922.0	3638.0	3638.0	3421.0	3421.0	2893.0	2893.0
11 Pt2 /1000	15382.1	15382.1	13235.0	13235.0	11703.2	11703.2	8369.4	8369.4
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763
13 Fc=FrTZ	5.534	5.834	5.429	5.690	5.358	5.586	5.231	5.369
14 FcQm	11.17	11.78	15.02	15.74	15.50	16.16	20.91	21.46
15 L/H(FcQm)2	124.8	138.8	225.5	247.7	240.3	261.1	437.1	460.4
16 Fw	56.17791	60.05473	102.89401	109.22151	110.69207	116.71273	204.89274	211.824484
17 Pw2	15438.3	15442.1	13337.9	13344.3	11813.9	11820.0	9574.3	9581.3
18 Ps2	28069.4	27225.8	24533.4	23867.0	21905.7	21371.9	16139.4	15892.4
19 Ps	5298.1	5217.8	4953.1	4885.4	4680.4	4623.0	4017.4	3986.5
20 P	4610.0	4569.9	4295.6	4261.7	4050.7	4022.0	3455.2	3439.8
21 Pr	6.74	6.68	6.28	6.23	5.92	5.88	5.05	5.03
22 Tr	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
23 Z	0.913	0.910	0.891	0.888	0.874	0.873	0.840	0.840

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NEW MEXICO G.O.R./G. MIX

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NO. OF BBLs PRODUCED = 5.0
API GRAVITY @ 60 DEG. = 56.0

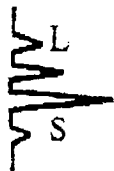
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SPECIFIC GRAVITY OF GAS = 0.6260

XX

TOTAL GAS PRODUCED = 486

G.O.R. = 97.292

G.MIX = 0.656



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE:
IDENTIFICATION: Saragosa 10 #1
COMPANY: Dominion
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 4/1/02 1:13 pm
ANALYSIS DATE: 4/2/02
PRESSURE - PSIG 394
SAMPLE TEMP. °F 53
ATMOS. TEMP. °F 83

GAS (XX) LIQUID ()
SAMPLED BY: B. Pena
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.713	
Carbon Dioxide (CO2)	3.502	
Methane (C1)	91.836	
Ethane (C2)	2.622	0.700
Propane (C3)	0.500	0.187
I-Butane (IC4)	0.112	0.087
N-Butane (NC4)	0.102	0.032
I-Pentane (IC5)	0.069	0.025
N-Pentane (NC5)	0.050	0.018
Hexane Plus (C6+)	0.494	0.214
	100.000	1.163

BTU/CU.FT. - DRY 1022
AT 14.650 DRY 1019
AT 14.650 WET 1001
AT 14.73 DRY 1024
AT 14.73 WET 1006

MOLECULAR WT. 18.1477

SPECIFIC GRAVITY -
CALCULATED 0.626
MEASURED