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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 O G S Operating						Lease or Unit Name Bluitt 16 St.					
Type Test ☐ Initial ☐ Annual ☐ Special						Test Date 11-30-99		Well No. 2			
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge.			
Csg. Size	Wt.	d	Set At	Perforations:				County			
1/2	11.6		4707	4707 O.H. 4712 O.H.				Roosevelt			
Tbg. Size	Wt.	d	Set At	Perforations:				Pool			
2 3/8	4.7	1.995	4707	Open Ended							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		Formation			
Producing Thru TBG		Reservoir Temp. °F 121.1 @ 4707		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Vented			
L 4707	H 4707	Gg .813	% CO ₂ 5.348	% N ₂ 6.876	% H ₂ S	Prover		Meter Run OWT		Taps	

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						1215				24 hr.
1.	2 x .750					1105				1 hr.
2.	2 x .750					980				1 hr.
3.	2 x 1.250					1000				1 hr.
4.	2 x 1.250					930				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.							107
2.		Volumes measured with 2" OWT & 50" Merc. Recorder					209
3.							506
4.							691
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					dry	
2.	N.A.				dry gas	
3.					.813	XXXXXXXXXX
4.					XXXXXX	
5.					*633	
					*402	

NO.	P _i ²	P _w ²	P _c ²	P _c ² - P _w ²
1.		1118.3	1250.6	257.9
2.		993.6	987.2	521.3
3.		1015.4	1031.0	477.5
4.		947.6	898.0	610.5
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.471$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.707$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.471$

Absolute Open Flow 1.707 Mcfd @ 15.025	Angle of Slope θ 45	Slope, n 1.000
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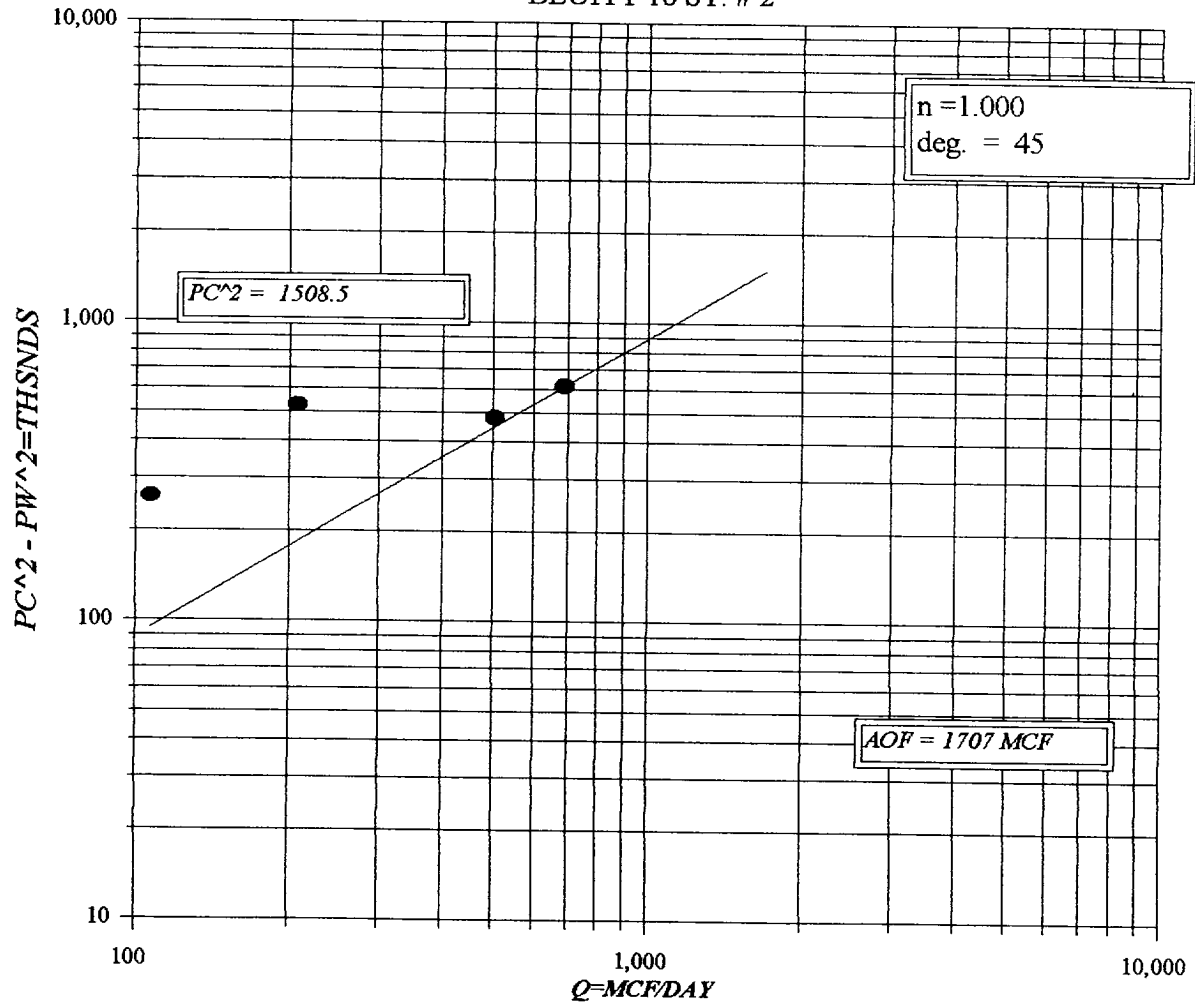
Remarks: *** Corrected to 5.348 CO2 & 6.876 N2**

Approved By Division	Conducted By: Metering & Testing	Calculated By: BM	Checked By: BM
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IC

O G S OPERATING

BLUITT 16 ST. # 2



UNIT :

SECTION :

TOWNSHIP :

L : 4707

H : 4707

L/H : 1

G/GMIX : 0.813

Pt2 = 1250.4

Pw = 1118.3 *

%CO2 : 5.348

%N2 : 6.876

H2S :

DATE : 11 30 99

986.4

993.6 *

d : 1.995

Fr : 0.018231

GH : 3826.8

RANGE :

1026.6

1015.4 *

889.6

947.6 *

VOL 1 : 107

PSIA 1 : 1118.2

RESV.TEMP 121.1

Pc2-Pw2= 257.9

Pw2 = 1250.6 *

VOL 2 : 209

PSIA 2 : 993.2

521.3

987.2 *

VOL 3 : 506

PSIA 3 : 1013.2

SHUT-IN PR= 1228.2

477.5

1031.0 *

VOL 4 : 691

PSIA 4 : 943.2

610.5

898.0 *

PCR : 633

TCR : 402

n = 1.000 ✓

Pc2/(Pc2-Pw2) =

5.849

2.894

3.159

2.471 ✓

[Pc2/Pc2-Pw2]n =

5.849

2.894

3.159

2.471 ✓

AOF= Q

0.626

0.605

1.599

1.707 ✓

FORM C122-D

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.107	0.107	0.209	0.209	0.506	0.506	0.691	0.691
2 TW	534	534	534	534	534	534	534	534
3 Ts	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
4 T	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
PR (est)	1.77		1.57		1.60		1.49	
5 Z(est)	0.759	0.743	0.781	0.765	0.777	0.762	0.790	0.775
6 TZ	423.4	414.3	435.4	426.8	433.4	424.6	440.5	431.9
7 GH/TZ	9.037	9.236	8.789	8.967	8.829	9.013	8.688	8.861
8 eS	1.403	1.414	1.390	1.400	1.392	1.402	1.385	1.394
9 l-e-S	0.287	0.293	0.281	0.286	0.282	0.287	0.278	0.283
10 Pt	1118.2	1118.2	993.2	993.2	1013.2	1013.2	943.2	943.2
11 Pt2 /1000	1250.4	1250.4	986.4	986.4	1026.6	1026.6	889.6	889.6
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 Fc=FrTZ	7.720	7.554	7.938	7.781	7.902	7.741	8.030	7.873
14 FcQm	0.83	0.81	1.66	1.63	4.00	3.92	5.55	5.44
15 L/H(FcQm)	0.7	0.7	2.8	2.6	16.0	15.3	30.8	29.6
16 Fw	0.196129	0.191236	0.772851	0.755125	4.506302	4.399944	8.560872	8.3684586
17 Pw2	1250.6	1250.6	987.2	987.2	1031.1	1031.0	898.2	898.0
18 Ps2	1755.0	1768.2	1372.6	1381.8	1435.7	1445.5	1244.1	1251.9
19 Ps	1324.8	1329.7	1171.6	1175.5	1198.2	1202.3	1115.4	1118.9
20 P	1221.5	1224.0	1082.4	1084.3	1105.7	1107.8	1029.3	1031.1
21 Pr	1.93	1.93	1.71	1.71	1.75	1.75	1.63	1.63
22 Tr	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
23 Z	0.743	0.743	0.765	0.765	0.762	0.761	0.775	0.774