STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: 4-Point [X] Initial [ ] Annual [ ] Special				Test Date: 8-9-82	
Company: Buffton Oil & Gas, Inc.		Connection: To Air			
Pool: Undesignated So. Shoebar		Formation: Marrow		Unit	
Completion Date: 8/3/82	Total Depth: 12,447	Plug Back TD: 12,380	Elevation: 3962'	Farm or Lease Name: Edison	
Csg. Size: 4½	Wt.: 13.5	d: 3.920	Set At: 12,443	Perforations: From 12180 To 12196	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 12,129	Perforations: From Open To Ended	Unit: L Sec.: 35 Twp.: 1- Rge.: 35e
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 12,129		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 196 @ 12188	Mean Annual Temp. °F: 60°	Barometric Press. - P_a: 13.2		State: New Mexico
L: 12188	H: 12188	G_g: .710	% CO_2: 3.43	% N_2: .887	% H_2S: -
Prover: -	Meter Run: 2.900	Taps: FLG			

FLOW DATA

NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Data: Press. p.s.i.g. DWT	Tubing Data: Temp. °F	Casing Data: Press. p.s.i.g.	Casing Data: Temp. °F	Duration of Flow
SI						78°	3958		Packer		
1	2.900	x	1.00	515	7.0	100°	3752				1 hr.
2	2.900	x	1.00	510	12.0	96°	3595				1 hr.
3	2.900	x	1.00	500	20.0	88°	3450				1 hr.
4	2.900	x	1.00	515	42.0	80°	3160				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, Fpv	Rate of Flow Q, Mcfd
1	4.801	60.81	528.2	.9636	1.187	1.0[illegible]	35[illegible]
2	4.801	79.24	523.2	.9653	1.187	1.0[illegible]	45[illegible]
3	4.801	101.31	513.2	.9741	1.187	1.0[illegible]	57[illegible]
4	4.801	148.3-	528.2	.9813	1.187	1.0[illegible]	8[illegible]
5							

NO	P_t	Temp. °R	T_r	Z
1	.78	560	1.45	.912
2	.77	553	1.44	.912
3	.76	548	1.42	.909
4	.78	540	1.39	.898
5				

Gas Liquid Hydrocarbon Ratio 15.79 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53 Deg.
Specific Gravity Separator Gas .710 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 679 P.S.I.A. - P.S.I.A.
Critical Temperature 387 R - R

P_c 3971.2 P_c^2 15770.4

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		3765.5	14179.0	1591.4
2		3609.8	13030.7	2739.7
3		3465.5	12009.7	3760.7
4		3178.1	10100.3	5670.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7813$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.4729$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,173.4$

Absolute Open Flow 2,173 Mcfd @ 15.025 Angle of Slope θ 48° 29' Slope, n .905

Remarks: Well Produced 6.00 Condensate in 4.0 Hours = 36.0 BC/D

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Jarrel Well Testing, Inc.	P.L Townley	J. C. Coleman