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

State of New Mexico
Energy, Minerals and Natural Resources Departm...

Form C-122
Revised 4-1-91

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JUL 16 1997
OIL CON. DIV.
DIST. 2

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Mewbourne Oil Company		Lease or Unit Name: Burton Flat 5 Federal	
Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 7/11/97	Well No.: 3
Completion Date: 3/23/97	Total Depth: 11,250	Plug Back TD: 11,028	Elevation: 3312' GL
Unit Ltr. - Sec. - TWP - Rge.: K 5 20s ~~32e~~ 28			
Csg. Size: 5½	Wt.: 17#	d: 4.892	Set At: 11,250
Perforations: From: 10,822 To: 10,892			
County: Eddy			
Tbg. Size: 2 3/8	Wt.: 4.7#	d: 1.995	Set At: 10,737
Perforations: From: OPEN To: ENDED			
Pool: ~~Burton Flat~~ Angel Ranch ~~Strawn~~-Morrow Gas			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single		Packer Set At: 10,722	
Formation: Morrow MD			
Producing Thru: Tbg	Reservoir Temp. °F: 181.4@10737	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2
Connection: Highland			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,737	10,737	0.615	0.95	0.26			3.068	FLG

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					1597		PACKER		96 Hrs.
1.	3.068 x 0.750	520	9.5	70	1547		PACKER		1 Hr.
2.	3.068 x 0.750	520	38	73	1473		PACKER		1 Hr.
3.	3.068 x 0.750	530	70	69	1380		PACKER		1 Hr.
4.	3.068 x 1.000	530	31.5	70	1294		PACKER		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.	2.672	71.17	533.2	.9905	1.275	1.047	251
2.	2.672	146.34	533.2	.9877	1.275	1.047	502
3.	2.672	195.00	543.2	.9915	1.275	1.048	690
4.	4.789	130.81	543.2	.9905	1.275	1.048	829
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.79	530	1.46	.912
2.	.79	533	1.47	.913
3.	.80	529	1.46	.911
4.	.80	530	1.46	.911
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .615 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 362 R ____ R

P_c 1610.2 P_c^2 2592.7

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1560.8	2436.2	156.6
2.		1488.9	2216.7	376.1
3.		1398.6	1956.0	636.7
4.		1315.5	1730.7	862.1
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.007$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.155$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,787$

Absolute Open Flow: 1,787 Mcfd @ 15.025 | Angle of Slope θ: 55.1 | Slope, n: .697

Remarks: NO FLUID PRODUCED

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Jarrel Services, Inc.	Bob Murray	Bob Murray