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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL 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: [X] Initial [ ] Annual [ ] Special				Test Date: 9/8/90	
Company: Enron Oil & Gas Company			Connection: Llano		
Pool: Malaga			Formation: Atoka		Unit
Completion Date: 4/27/90	Total Depth: 12,050		Plug Back TD: 11,957	Elevation: 2974' GL	Farm or Lease Name: Malaga 2 State Com.
Csg. Size: 4½ / Wt.: 15.1# / d: 3.826 / Set At: 12,047			Perforations: From 11,769 To 11,835		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7# / d: 1.995 / Set At: 11,706			Perforations: From Open To Ended		Unit: J / Sec.: 2 / Twp.: 24s / Rge.: 28e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual			Packer Set At: 11,655		County: Eddy
Producing Thru: TBG	Reservoir Temp. °F: 191° 11706	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11,706	11,706	0.574	0.51	0.55	-	-	4.026	FLG

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2732		PKR		72 hrs.
1.	4.026	10/64	2.000	540	7.00	64	2600		"		1 hr.
2.	4.026	13/64	2.000	580	18.00	70	2455		"		1 hr.
3.	4.026	15/64	2.000	640	36.00	56	2110		"		1 hr.
4.	4.026	23/64	2.000	730	68.00	60	1534		"		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	19.81	62.23	553.2	.9962	1.320	1.044	1,692
2.	19.81	103.33	593.2	.9905	1.320	1.047	2,802
3	19.81	153.35	653.2	1.004	1.320	1.052	4,235
4	19.81	224.81	743.2	1.000	1.320	1.058	6,220
5							

NO.	P_t	Temp. °R	T_r	Z
1	.82	524	1.51	.918
2.	.88	530	1.53	.913
3.	.97	516	1.49	.904
4.	1.10	520	1.50	.893
5				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .574 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 346 R ____ R

P_c 2745.2 P_c^2 7536.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2631.6	6925.4	610.7
2		2521.1	6356.0	1180.1
3		2260.2	5108.3	2427.8
4		1925.0	3705.6	3830.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.967$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.620$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10.076$

Absolute Open Flow: 10,076 Mcfd @ 15.025 Angle of Slope θ: 54.5° Slope, n: 0.713

Remarks: No fluid produced during test.

Byron Sellers
Enron Oil & Gas Company
9/17/90

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