NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-24-84		
Company: Maralo, Inc.		Connection: Port-A-Check to Air			Unit
Pool: Undesignated		Formation: ~~Morrow~~ CHESTER			
Completion Date: 10-17-84	Total Depth: 12,856	Plug Back TD: 12,780'	Elevation: 3941 G R		Farm or Lease Name: State K-33 Com
Csg. Size: 5½" / Wt: 17# 20 / d: 4.892 4.778 / Set At:		Perforations: From 11,719 To 11,727			Well No.: 3
Tbg. Size: 2 7/8" / Wt: 6.4 / d: 2.441 / Set At: 11,680		Perforations: From Open Ended To			Unit: O / Sec.: 30 / Twp.: 16S / Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 11,680'		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 191° @ 11,723'	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
11,723	11,723	.7023	.385	1.356			4.026	Flange

	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						3059	45°	PKR	CHOKE	72 Hrs.
1.	4.026	x 1.00	510	7	79°	2267	47		5/64	1 Hr
2.	4.026	x 1.00	500	8	80	1811	49		6/64	1 Hr
3.	4.026	x 1.00	500	10	79	1510	50		10/64	1 Hr
4.	4.026	x 1.00	500	4	70	554	51		15/64	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	4.753	60.52	523.2	.9732	1.194	1.056	353
2	4.753	64.07	513.2	.9813	1.194	1.054	376
3	4.753	71.64	513.2	.9732	1.194	1.054	417
4	4.753	45.31	513.2	.9905	1.194	1.060	270
5							

NO.	P_t	Temp. °R	T_r	Z
1	.78	539	1.39	.897
2.	.77	540	1.39	.900
3.	.77	539	1.39	.900
4.	.77	530	1.39	.890
5				

Gas Liquid Hydrocarbon Ratio: 5.363 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 56.4 @ 60° Deg.
Specific Gravity Separator Gas: .7023 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 667 P.S.I.A. P.S.I.A.
Critical Temperature: 389 R R

P_c 3583.3 P_c^2 12840.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3062.8	9380.7	3459.3
2		2851.5	8131.1	4708.9
3		2595.9	6738.7	6101.3
4		1901.4	3615.3	9224.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.712$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9266$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .680$

Absolute Open Flow: 680 Mcfd @ 15.025 Angle of Slope θ: 63.5 Slope, n: .500

Remarks: Made 11 Bbls. Condensate during test. B.H.P. taken with Kuster Gauge. Point alignment too steep; a slope of 63.5 was drawn through low rate of flow.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	R.R.	W.S.	R.R.