N' MEXICO OIL CONSERVATION COMM ION

MULTIPOINT ..D ONE POINT BACK PRESSURE TES, FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF . - -

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 10-14-81	RECEIVED
Company: MESA PETROLEUM CO. /	Connection: UNCONNECTED			OCT 29 1981
Pool: UNDESIGNATED ABO	Formation: ABO			Uni
Completion Date: 10-14-81	Total Depth: 4300	Plug Back TD: 3820	Elevation: 4096	Farm or Lease Name: BELL ESTATE
Csg. Size: 4 1/2 / Wt.: 10.5 / d: / Set At: 4015		Perforations: From 3585 To 3735		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3479		Perforations: From OPEN ENDED To		Unit: J / Sec.: 17 / Twp.: 5S / Rge.: 24E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 103 @ 4300	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
3479	3479	.65	1	1		2" ORIFICE WELL	TESTER	

	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					825		810		72 hr. SI
1.	2" ORIFICE 1¼	3.5		73	770	87	745		1 hr.
2.	WELL 1¼	4.5		73	540	88	720		1 hr.
3.	TESTER 1¼	6.5		68	480	84	680		1 hr.
4.	1¼	9.0		73	410	81	620		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	418	2" ORIFICE	WELL	.9877	.9608		397
2.	479	TESTER		.9877	.9608		455
3.	587			.9924	.9608		560
4.	708			.9877	.9608		672
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 823 P_c^2 677

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		758	575	102
2		733	537	140
3		693	480	197
4		633	401	276
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.4529$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6528$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1{,}100$

Absolute Open Flow 1,100 Mcfd @ 15.025 Angle of Slope θ 60.8° Slope, n .56

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JAMES CRAIG	E.L. BUTTROSS, JR.	