NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

CASE

RECEIVED
JUL 24 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 7-15-81	
Company: MESA PETROLEUM CO.	Connection: UNCONNECTED			
Pool: ~~UNDESIGNATED ABO~~ Wildcat abo	Formation: ABO		Unit	
Completion Date: 7-15-81	Total Depth: 4026	Plug Back TD: 3465	Elevation: 3969	Farm or Lease Name: ROUND TOP STATE
Csg. Size: 4 1/2 / Wt.: 10.5 / d: / Set At: 3966	Perforations: From 2905 To 3164			Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3088	Perforations: From OPEN ENDED To			Unit: E / Sec.: 10 / Twp.: 7S / Rge.: 23E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE			County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 100 @ 3200	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
3088	3088	.65	1	3		CHOKE		

	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					815		820		67 hr. SI
1.	Choke 18/64	755	-	85	755	85	757		1 hr.
2.	Coefficients 25/64	650	-	85	650	85	690		1 hr.
3.	30/64	530	-	85	530	85	610		1 hr.
4.	36/64	390	-	85	390	85	575		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	1.331	choke	755	.9768	1.240	-	1217
2.	2.587	choke	650	.9768	1.240	-	2037
3.	3.697	choke	530	.9768	1.240	-	2373
4.	5.290	choke	390	.9768	1.240	-	2498
5.							

NO.	P_r	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 820 P_c^2 672

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		757	573	99
2		690	476	196
3		610	372	300
4		575	331	341
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9707$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4424$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,600$

Absolute Open Flow 3600 Mcfd @ 15.025 | Angle of Slope θ 61.6° | Slope, n .54

Remarks:

Approved By Commission:	Conducted By:	Calculated By: EAB	Checked By:
	[illegible]	[illegible] BUTTROSS JR	