NEW MEXICO OIL CONSERVATION COMMISSION
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: 1-18-80	
Company: MESA PETROLEUM	Connection: AIR			
Pool: UNDESIGNATED	Formation: WOLFCAMP			Unit: L
Completion Date: 11-30-79	Total Depth: 15,557	Plug Back T.D.: 14985	Elevation: 3627 GL	Farm or Lease Name: JOG STATE COM.
Csg. Size: 5 / Wt. / d / Set At: 15557	Perforations: From 13348 To 13364			Well No.: # 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 13250	Perforations: From open To end			Unit: L Sec.: 2 Twp.: 24s Rge.: 33e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 13,250		County: LEA
Producing Thru: TBG.	Reservoir Temp. °F: 206 @ 13,250	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
13,250	13,250	.678	.336	2.006			4	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					7405				72 HR.
1.	4 X 1.500	460	4.	120	5730				1 HR.
2.	4 X 1.500	420	6.	86	3750				1 HR.
3.	4 X 1.500	425	12.	64	1975				1 HR.
4.	4 X 1.500	425	15.	60	1100				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	10.84	43.51	473.2	.9469	1.214	1.036	562
2	10.84	50.98	433.2	.9759	1.214	1.041	682
3	10.84	72.51	438.2	.9962	1.214	1.049	997
4	10.84	81.07	438.2	1.000	1.214	1.051	1121
5							

NO.	P_t	Temp. °R	T_r	Z
1.	.71	580	1.52	.932
2.	.65	546	1.43	.922
3.	.66	524	1.37	.909
4.	.66	520	1.36	.906
5.				

Gas Liquid Hydrocarbon Ratio 3.854 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 54.7 @ 60 Deg.
Specific Gravity Separator Gas .678 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX G mix 1.322
Critical Pressure 669 P.S.I.A. 650 P.S.I.A.
Critical Temperature 382 R 537 R

P_c 7418.2 P_c^2 55,029.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5736.5	32907.4	22122.3
2		3777.0	14265.7	40764.0
3		2003.4	4013.6	51016.1
4		1138.9	1297.1	53732.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.024$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.024$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.148$

Absolute Open Flow 1,148 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.00

Remarks: POINT IAIGNMENT TO FIAT A SIOPE OF 45 WAS DRAWN THROUGH HIGH RATE OF FLOW, WELL MADE 36.35 BBLS OF CONDENSATE DURING TEST.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JOHN DAVIS	LARRY DAVIS	