3/22/75 XC: 3 State
2 SUG

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

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 4-21-75	
Company: Mesa Petroleum Co.			Connection:		
Pool: Blanco			Formation: Pictured Cliffs		Unit:
Completion Date: 4-9-75	Total Depth: 4945'		Plug Back TD: 4890'	Elevation: 5851 GL	Farm or Lease Name: State Com G
Csg. Size: 7" / Wt.: 26 lb. / d: / Set At: 2769'			Perforations: From 2406' To 2450'		Well No.: 2A
Tbg. Size: 1-1/4 / Wt.: 2.3 / d: 1.38 / Set At: 2450			Perforations: From 2444' To 2450'		Unit: J / Sec.: 32 / Twp.: 29N / Rge.: 8W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple			Packer Set At: 2618'		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 105° @ 2425'	Mean Annual Temp. °F:	Baro. Press. – P_a: 12		State: New Mexico
L: 2444'	H:	Gg:	% CO_2:	% N_2:	% H_2S: / Prover: / Meter Run: / Taps:

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					968		972		7Day S. I.
1.					103	40	552		1 hr
2.	0.75" X 1.995				92	44	528		2 hr
3.					85	46	514		3 hr
4.									
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							
2.	12.365		97	1.0137	0.9608	1.019	1190
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1	0.145	506	1.349	.972
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.65 (xxxxxxxxx)
Specific Gravity Flowing Fluid: xxxxx
Critical Pressure: 670 P.S.I.A. (P.S.I.A.)
Critical Temperature: 375 R (R)

P_c 984 P_c^2 968,256

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		526	276,676	691,580
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.400$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.331

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1584$

RECEIVED AUG 25 1975 OIL CON. COM. DIST. 3

Absolute Open Flow: 1564 Mcfd @ 15.025
Angle of Slope θ: Slope, n: 0.85

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jack Dunning	R. J. Flaker	

cc: Southern Union Prod. Co.