

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 11-20-80	
Company MESA PETROLEUM CO			Connection EL PASO N G CO			
Pool BASIN DAKOTA			Formation DAKOTA		Unit E	
Completion Date 11-20-80		Total Depth 6390.		Plug Back TD 6347.		Elevation 5645.
Form or Lease Name FEDERAL		Well No. 5E				
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 6388.	Perforations: From 6205. To 6300.		Unit Sec. Twp. Rye. 5-29N-12W
Thg. Size 2.375	Wt. 4.7	d 2.041	Set At 6163.	Perforations: From 0. To 0.		County SAN JUAN
Type Well - Single - Brdenhead - G.G. or G.O. Multiple FLOWING				Packer Set At 0.		State NEW MEXICO
Producing Thru TUBING		Reservoir Temp. °F 160.0 6205.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2
L 6205.	H 6205.	Cg 0.650	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.	Prover 0.
Meter Run 0.		Taps 0.				

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI							1350.	40.			168.0
1.	2.04 X 0.750			60.	0.	60.	60.	60.	0.	0.	3.0
2.											
3.											
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	11.22	0.	73.2	1.0000	1.2403	1.0073	1026.
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.11	520.	1.37	0.986	0.	0.
2.						
3.						
4.						
5.						

NO.	P _t	Temp. °R	T _g	Z	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.11	520.	1.37	0.986	0.650	XXXXXXX	0.650	670.	374.
2.									
3.									
4.									
5.									

NO.	P _t	P _w	P _c	P _c ² - P _w ²
1	5.	164.	27.	1859.
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0144$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1039.$

(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 0.123$

Absolute Open Flow	1039.	Mcf/d @ 15.025	Angle of Slope θ	49.6	Slope, m.d.	850
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REMOVED
 NOV 24 1980
 OIL CON. COM.
 DIST. 3

Approved By Commission:	Conducted By: D. Green	Calculated By: J. L. Dixon	Checked By: Garrett AOF
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