

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

Form C-122
 Revised 9-1-55

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-15-82	
Company MID-AMERICA PET. INC.		Location NONE	
Pool EAST LA RICA		Formation MORROW	
Completion Date 2-15-82	Total Length 13618	Flow Rate, gpm 13400	Elevation 3976 GR
Casing Size 5 1/2		Perforations From 13238 To 13250	
Well No. 1		Unit 0	
Well Size 2 7/8		Well Depth 35	
Well Type SINGLE		Well Status 18 S 34 E	
Producing Through TUBING		Reservoir Temp. °F 180 @ 13244	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 13244		H 13244	
G _g .6586		% CO ₂ -	
% N ₂ -		% H ₂ S -	
Prover PORTABLE		Meter Run TEST UNIT	
FLANGE			

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	
51							3805	50	PACKER		17 HR
1.	4.026	1.125	530	24	76	2920	53	"	"	"	1.0 HR
2.	4.026	1.125	700	26	98	2350	56	"	"	"	1.0 HR
3.	4.026	1.125	710	4	98	2050	55	"	"	"	1.0 HR
4.	4.026	0.750	730	36	90	2050	59	"	"	"	1.0 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compens. Factor, F _{sc}	Rate of Flow Q, Mhd
1	6.031	114.179	543.2	.9850	1.232	1.061	887
2	6.031	136.173	713.2	.9653	1.232	1.053	1028
3	6.031	53.785	723.2	.9653	1.232	1.053	406
4	2.661	163.570	742.2	.9723	1.232	1.058	552
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.811	513	1.364	.887	24.5	49.9	6586	0.7800	760	377
2.	0.938	558	1.480	.903						
3.	0.952	558	1.480	.902						
4.	0.977	550	1.459	.894						
5.										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	8603.7	3622.2	13120	1458.7	
2	5584.7	2899.7	8408.3	6170.4	
3	4256.8	2527.4	6387.8	8190.9	
4	4256.8	2521.7	6359.0	8219.7	
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.363$

AOI = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2429$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.363$

Absolute Open Flow	2429	Mhd @ 15.025	Angle of Slope	45°	Slope, n	1.0
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Remarks: RATE #2 WAS USED AS A SINGLE POINT TEST.

Approved By Commission:	Conducted By: Otis Engineering	Calculated By: <i>Larry E. Noble</i>	Checked By: <i>W. B. Young</i>
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RECEIVED

MAR - 4 1982

**G.C.D.
HOBBS OFFICE**