

**MEXICO OIL CONSERVATION COMPANY
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS**

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Form C-122
Revised 9-1-63

APR 04 1984

O. C. D.

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 3-9-84		ARTESIA, OFFICE					
Company Perry R. Bass				Connection NGPL		1980 FSL					
Well <i>W. E. ...</i> Undesignated Atoka				Formation ATOKA		Unit #					
Completion Date 3-7-84		Total Depth 12407		Perforations 11600		Elevation 3182.5' SL					
Casing Size 5.5		ID 4.892		From 11489		To 11495					
Tubing Size 2.375		ID 1.995		From OPEN		To ENDED					
Type Well - Single - Broadhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11380		Form or Lease Name BIG EDDY UNIT					
Producing thru TUBING		Reservoir Temp. °F 220 @ 11492		Mean Annual Temp. °F 60		Liquor. Press. - P _h 13.2					
L 11492		H 11492		G _g .593		% CO ₂ .500					
				% N ₂ .978		% H ₂ O 0					
				Proven 0		Motor Run 3.068					
						Taps FLANGE					
FLOW DATA				TUBING DATA		B.H.P. DATA					
NO	Proven 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.	CHOKE	Duration of Flow
1	3.068 X 1.125			461	5	73	5572	74	6911		72.0
2	3.068 X 1.125			461	5.4	57	5145	74	6427	3/64	1.0
3	3.068 X 1.125			461	8.0	61	3855	74	5063	4/64	1.0
4	3.068 X 1.125			461	11.0	63	2867	74	3769	6/64	1.0
5	3.068 X 1.125			461			1810	74	2435	8/64	1.0
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{I_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Compres. Factor, F _{sp}	Rate of Flow Q, Mcfd				
1	6.095	15.39	474.2	.9877	1.299	1.036	125.				
2	6.095	50.59	474.2	1.003	1.299	1.040	418.				
3	6.095	61.59	474.2	.9990	1.299	1.040	507.				
4	6.095	72.22	474.2	.9971	1.299	1.039	592.				
5											
NO.	R _g	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.71	533.	1.52	.932	A.P.L. Gravity of Liquid Hydrocarbon _____ Deg.						
2	.71	517.	1.47	.924	Specific Gravity Separator Gas _____ .593 XXXXXXXXX						
3	.71	521.	1.48	.925	Specific Gravity Flowing Fluid _____ XXXXXX 0						
4	.71	523.	1.49	.927	Critical Pressure _____ 671. P.S.I.A. 671. P.S.I.A.						
5					Critical Temperature _____ 351. °F 351. °F						
$I_c = 6924.2$ $P_c^2 = 47944$											
NO	P_c^2	P_w^2	I_w^2	$P_c^2 - I_w^2$	(1) $\frac{P_c^2}{I_c^2 - I_w^2} = 1.0835$			(2) $\left[\frac{P_c^2}{I_c^2 - I_w^2} \right]^n = 1.0835$			
1		5282.7	27907.	20037.	$AGP = Q \left[\frac{I_c^2}{P_c^2 - I_w^2} \right]^n = 641.4$						
2		4081.3	16657.	31287.							
3		2985.6	8914.	39030.							
4		1922.2	3695.	44249.							
5											
Absolute Open Flow _____ 641. _____ Mcfd @ 15.025					Angle of Slope θ _____ 45°		Slope, n _____ 1.000				
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.											
Approved by _____		Checked by _____		Drawn by _____		Recorded by _____					
RICHARD TOWERLEY		BENNETT & CATHEY									