

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

Form C-122
Revised 9-1-65

5-12-81
12-2-81
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-4-81		DEC 2 1981	
Company El Paso Exploration Co. /				Connection EPNG				G.C.D.	
Pool Und. Atoka (Gas)				Formation Atoka				Unit ATOKA - 100'	
Completion Date 4-6-81		Total Depth 12,450		Plug Back TD 11,715		Elevation Gr-3051.0		Farm or Lease Name Bird Com	
Case Size 4 1/2"	Wt. 26#	Set At 10,366	Perforations: From 11,027 To 11,106		Well No. 1				
Tbg. Size 2 3/8	Wt. 4.7	Set At 11,061	Perforations: From To		Unit Sec. Twp. Rge. G 12 23 27				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Eddy	
Producing Thru Tbg		Reservoir Temp. °F 210 @ 11,005		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NM	
L 11,067	H 11,067	G _g .652	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4 "	Taps Flg.	

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							1887		2084		72+
1.	4"		1.000	347	28.09	91	1497		1746		3 hrs
2.	4"		1.000	436	36.00	86	1389		1602		1 hr
3.	4"		1.000	521	51.84	81	1002		1223		2 hrs
4.	4"		1.000	521	53.29	80	715		964		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	4.753	100.59	360.2	.9716	1.238	1.029	592
2	4.753	127.17	449.2	.9759	1.238	1.035	756
3	4.753	166.41	534.2	.9804	1.238	1.048	1006
4	4.753	168.72	534.2	.9813	1.238	1.048	1021
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.54	551	1.47	.945	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.67	546	1.46	.933	Specific Gravity Separator Gas .652 XXXXXXXXX
3	.80	541	1.44	.910	Specific Gravity Flowing Fluid XXXXX
4	.80	540	1.44	.910	Critical Pressure 670 P.S.I.A. P.S.I.A.
5					Critical Temperature 375 R R

P _c 2204.8 P _c ² 4861.3				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	2387.2	1816.0	3297.9	1563.4
2	2123.2	1619.4	2622.5	2238.8
3	1500.2	1155.7	1335.7	3525.6
4	1193.2	925.3	856.1	4005.1
5	2904.2			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.379$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.244$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.237$

Absolute Open Flow 1,244 Mcfd @ 15.025	Angle of Slope θ 56.5	Slope, n .662
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Remarks: Made 8.0 bbl H2O during test

* = Static BHP	** = Flowing BHP
Approved By Commission:	Conducted By: Calculated By: Checked By:
	McMurrain & Rea J. B. Murray