

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/27/78		AUG - 7 1978	
Company Gulf Oil Corporation				Connection E.P.N.C.				O.C.C.	
Pool Angel Ranch Mexico				Formation Morrow				Unit ARTESIA, OFFICE I	
Completion Date 4/8/78		Total Depth 11150		Plug Back TD 11116		Elevation GL 3464		Farm or Lease Name Eddy G.L. St. Comm	
Csg. Size 5 1/2	Wt. 17	d 11150	Set At 11150	Perforations: From 11024 To 11041		Well No. # 1			
Tbg. Size 2 3/8	Wt. 4.7	d 10946	Set At 10946	Perforations: From To		Unit I	Sec. 25	Twp. 19	Rge. 27
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10946		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 183		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 10946	H 10946	Gg .619	% CO ₂ .73	% N ₂ .32	% H ₂ S	Prover	Meter Run 4"	Taps 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.	
SI							2900			
1.	4	X	1.000	640	6.5	58	2275			1 Hr
2.	4	X	1.000	640	13.0	53	1800			1 Hr
3.	4	X	1.000	640	18.0	58	1200			1 Hr
4.	4	X	1.000	640	36.0	65	640			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	65.16	653.2	1.002	1.271	1.064	420
2	4.753	92.15	653.2	1.007	1.271	1.065	597
3	4.753	108.43	653.2	1.002	1.271	1.064	698
4	4.753	153.35	653.2	.9952	1.271	1.060	977
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.97	518	1.42	.884	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.97	513	1.41	.882	Specific Gravity Separator Gas .619 XXXXXXXXXX
3.	.97	518	1.42	.884	Specific Gravity Flowing Fluid XXXXX
4.	.97	525	1.44	.890	Critical Pressure 671 P.S.I.A. P.S.I.A.
5.					Critical Temperature 365 R R

P _c 2913.2 P _c ² 8486.7				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		2269.4	5241.4	3245.3
2		1816.3	3299.0	5187.7
3		1219.9	1488.2	6998.5
4		679.2	461.3	8025.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.057$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.033$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.057$

Absolute Open Flow	1.033 Mcfd @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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Remarks:

Approved By Commission:	Conducted By: Larry Davis	Calculated By: Larry Davis	Checked By:
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