

NEW 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 10-25-77		NOV 1 1977	
Company Gulf Oil Corp.				Connection None				O.C.C. STESIA OFFICE	
Pool Undesignated				Formation Morrow				Unit J	
Completion Date 10-6-77		Total Depth 11387		Plug Back TD 11303		Elevation 3.300		Farm or Lease Name Eddy G.E. State	
Csg. Size 5 1/2	Wt. 17	d	Set At 11387	Perforations: From 10970 To 11120		Well No. # 1			
Tng. Size 2 3/8	Wt. 4.7	d	Set At 10919	Perforations: From To		Unit Sec. Twp. Rge. J 23 20 27			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10913		County Eddy	
Producing Thru TBG.		Reservoir Temp. °F 184 @ 11045		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 11045	H 11045	G _g .625	% 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							3375				72 Hr
1.	4 x 2.000			590	4.5	78	2940				1 Hr
2.	4 x 2.000			597	8.2	77	2790				1 Hr
3.	4 x 2.000			600	16.1	78	2475				1 Hr
4.	4 x 2.000			611	32.0	78	2090				1 Hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	52.10	603.2	.9831	1.265	1.054	1353
2	19.81	70.74	610.2	.9840	1.265	1.054	1838
3	19.81	99.36	613.2	.9831	1.265	1.055	2582
4	19.81	141.33	624.2	.9831	1.265	1.055	3673
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.90	538	1.46	.901	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.91	537	1.46	.900	Specific Gravity Separator Gas .625 X X X X X X X X
3.	.92	538	1.46	.899	Specific Gravity Flowing Fluid X X X X X
4.	.93	538	1.46	.899	Critical Pressure 670 P.S.I.A. P.S.I.A.
5.					Critical Temperature 368 R R

P _c 3388.2 P _c ² 11479.9				
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		2964.1	8785.9	2694.0
2		2823.9	7971.4	3505.5
3		2535.1	6426.7	5053.2
4		2199.7	4838.7	6641.2
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.729$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.729$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.349$$

Absolute Open Flow	6,349	Mcfd @ 15.025	Angle of Slope	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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