

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

1-7 file
1-C-122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/23/78		MAR - 1 1978	
Company Gulf Oil Corp.				Connection Air					
Pool Angell Ranch <i>monow</i>				Formation Morrow				Unit O.C.C. ARTERIAL FLOW	
Completion Date 2/15/78		Total Depth 11200		Flow Pk. TH 11140		Elevation 3498 GL		Form or Lease Name Eddy "GM" State Com.	
Csg. Size 5 1/2	Wt. 15 & 17	d 	Set At 11200	Perforations: From 10895 To 10899		Well No. # 1			
Fig. Size 2 3/8	Wt. 	d 	Set At 10759	Perforations: From To 		Unit 0	Sec. 36	Twp. 19	Rys. 27
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10759		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 181 @ 10759		Mean Annual Temp. °F 60°		Boro. Press. - P ₀ 13.2		State New Mexico	
L 10759	H 10759	Gg .596	% CO ₂ .71	% N ₂ .75	% H ₂ S 	Prover 	Meter Run 4"	Tag 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							3350				72 hrs
1.	4	X	1.500	513	7.0	88	3247				1 hr
2.	4	X	1.500	518	14.0	94	3180				1 hr
3.	4	X	1.500	520	25.0	91	3115				1 hr
4.	4	X	1.500	530	42.0	87	3025				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 _{sp}	Rate of Flow Q, Mscf/d
1	10.84	60.69	526.2	.9741	1.295	1.039	862
2	10.84	86.24	531.2	.9688	1.295	1.037	1216
3	10.84	115.46	533.2	.9715	1.295	1.038	1634
4	10.84	151.04	543.2	.9750	1.295	1.040	2150
5							

NO.	P ₀	Temp. °R	T ₀	Z	Gas Liquid Hydrocarbon Ratio Dry Mscf/bbl.
1	.78	548	1.53	.927	A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.
2	.79	554	1.55	.930	Specific Gravity Separator Gas .596 X X X X X X X X
3	.79	551	1.54	.928	Specific Gravity Flowing Fluid X X X X X
4	.81	547	1.53	.924	Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 358 °R _____ °R

NO.	P _c ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		3263.9	10653.1	658.7	5.724	4.875
2		3201.1	10247.0	1064.7		
3		3141.6	9869.7	1442.1		
4		3055.4	9335.5	1976.3		
5						

Absolute Open Flow 10,481		Mscf @ 15.025	Angle of Slope 47.75°	Slope, n .908
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Remarks: _____			
Approved By Commission: _____	Conducted By: Larry Davis	Calculated By: John Davis	Checked By: _____