

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 12/12/77		DEC 20 1977	
Company Gulf Oil Corporation ✓					Connection None			
Pool <i>North Shugart morrow</i> Undesignated <i>morrow</i>					Formation Morrow		Unit H B.C.C. ARTESIA, OFFICE	
Completion Date 12/8/77		Total Depth 12078		Pig Back TD 12034		Elevation 3619		Farm or Lease <i>Ad</i> Keohane Fed.
Csg. Size 5 1/2	Wt. 15.50 17.00	d	Set At 12078	Perforations: From 11800 To 11811		Well No. # 1		
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 11746	Perforations: From To		Unit H	Sec. 19	Twp. 18
Type Well - Single - Brazenhead - G.G. or G.O. Multiple Single					Packer Set At 11745		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 191 @ 11746		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico
L 11746	H 11746	G _g .655	% 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							3149				72 Hr.
1.	4 X 2.000			500	5.0	95	2905				1 Hr.
2.	4 X 2.000			515	10.5	100	2750				1 Hr.
3.	4 X 2.000			515	21.0	95	2490				1 Hr.
4.	4 X 2.000			515	40.0	91	2125				1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	50.66	513.2	.9680	1.236	1.044	1253
2	19.81	74.47	528.2	.9636	1.236	1.044	1834
3	19.81	105.32	528.2	.9680	1.236	1.045	2609
4	19.81	145.35	528.2	.9715	1.236	1.047	3620
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
					25.835	52.3 @ 60°	.655	X X X X X X X X	670	378
1.	.77	555	1.47	.918				.770	P.S.I.A. 666	R 415
2.	.79	560	1.48	.917						
3.	.79	555	1.47	.915						
4.	.79	551	1.46	.913						
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		2929.9	8584.3	1415.2	2.006	1.819
2		2786.9	7766.8	2232.7		
3		2553.2	6518.8	3480.7		
4		2239.5	5015.4	4984.1		
5						

Absolute Open Flow 6,584 Mcfd @ 15.025 Angle of Slope 49.25° Slope, n .859

Remarks: Made 15.025 bbls. of Distillate.

Approved By Commission:	Conducted By: Larry Davis	Calculated By: Larry Davis	Checked By:
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*posted & booked
10-23-77
12-31*