

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

56 file ✓
122

Form C-122
Revised 9-1-67

RECEIVED

OCT 16 1979

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-10-79	
Company GULF OIL CORP. ✓		Connection AIR	
Pool N. SHUGART <i>Atoka</i>		Formation ATOKA	
Completion Date 10-6-79		Total Depth 11795	
Csg. Size 7		Plug Back TD 11750	
Well No. 23/26		Elevation 3633 GL	
Tag. Size 2 3/8		Perforations: From 11114 To 11144	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. DUAL		Packer Set At 11040	
Producing Thru TBG.		Baro. Press. - P _a 13.2	
Reservoir Temp. °F 180° PERES.		Mean Annual Temp. °F 60	
L 11040		H 11040	
G _g .699		% CO ₂ .26	
% N ₂ 1.37		% H ₂ S 0	
Prover 4"		Meter Run 4"	
Taps FLG.		Unit F	
Farm or Lease Name EDDY "D" FED. COM.		County EDDY	
State NEW MEXICO		Sec. 20	
Twp. 18s		Rge. 31e	

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							1901	70			72 HRS
1.	4 X 1.000			520	2.0	100	1710	70			1 HR.
2.	4 X 1.000			520	4.0	100	1540	70			1 HR.
3.	4 X 1.000			530	7.0	100	1330	70			1 HR.
4.	4 X 1.000			540	14.0	92	1115	70			1 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _{in}	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	32.66	533.2	.9636	1.196	1.051	188
2	4.753	46.18	533.2	.9636	1.196	1.051	266
3	4.753	61.66	543.2	.9636	1.196	1.051	355
4	4.753	88.00	553.2	.9706	1.196	1.056	513
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.80	560	1.43	.906	6.120	
2	.80	560	1.43	.906	65 @ 60	
3	.81	560	1.43	.905		
4	.83	552	1.41	.897		
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		1723.5	2970.5	728.2	1.528	1.528
2		1553.9	2414.5	1284.2		
3		1344.3	1807.2	1891.5		
4		1130.4	1277.9	2420.8		
5						

Absolute Open Flow 784		Mcf @ 15.025		Angle of Slope 45		Slope, n 1.000	
Remarks: THE WELL PRODUCED 9 BBLS OF DISTILLATE DURING THE TEST.							
Approved By Commission:		Conducted By: JOHN DAVIS		Calculated By: LARRY DAVIS		Checked By:	