

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

Form C-122
Revised 9-1-65

RECEIVED

OT File
122 file

Type Test <input checked="" type="checkbox"/> Initial AUG 31 1977 <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 7-1-77									
Company GULF OIL CORP. O.C.C. ARTESIA, OFFICE		Connection AIR									
Pool WHITE CITY		Formation MORROW									
Completion Date 6-28-77		Total Depth 11600									
Csg. Size 5.00"		Set At 11556									
Trg. Size 2.375EUE		Set At 11347									
Perforations: From 11431 To 11444		Well No. # 1									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE COMPLETION GAS-OIL		Packer Set At 11347									
Producing Thru TUBING		Reservoir Temp. °F 180 ^o 11438									
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2									
L 1:1438		H 11438									
G _g 0.580		% CO ₂ 0.03									
% N ₂ 0.00		% H ₂ S 0.00									
Prover X		Meter Run FLG									
Taps FLG		County EDDY									
State NM		City i									
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	Duration of Flow
SI							3947	70			
1.	4.00		2.00	534	8.00"	114	3736	70			1.00 HR
2.	4.00		2.00	535	16.00"	97	3610	70			1.00 HR
3.	4.00		2.00	537	36.00"	85	3170	70			1.00 HR
4.	4.00		2.00	540	75.00"	97	2595	70			1.00 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 _{spv}	Rate of Flow Q, Mcfd				
1	19.81	66.163	547.20	0.9518	1.3131	1.0320	1690				
2	19.81	93.655	548.20	0.9662	1.3131	1.0410	2450				
3	19.81	140.738	550.20	0.9768	1.3131	1.0380	3712				
4	19.81	203.691	553.20	0.9662	1.3131	1.0340	5293				
5											
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio		Mcfd/bbl.				
1	0.81	574	1.64	0.937	A.P.I. Gravity of Liquid Hydrocarbons		NONE PRODUCED				
2	0.82	557	1.59	0.918	Specific Gravity Separator Gas		0.580				
3	0.82	545	1.56	0.918	Specific Gravity Flowing Fluid		X X X X X				
4	0.82	557	1.59	0.918	Critical Pressure		672 P.S.I.A.				
5					Critical Temperature		350 R				
P _c 3960.2		P _w 15683									
NO.	P _f ²	P _w	P _f ²	P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.96687$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.54982$				
1		3768.2	14162	1522							
2		3653.2	13346	2337							
3		3258.5	10618	5065							
4		2776.6	7710	7974	ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8441$						
5											
Absolute Open Flow		8441		Mcfd @ 15.025		Angle of Slope @		55.36			
Remarks:											
Approved by Commission:		Conducted By:		Calculated By:		Checked By:					
		LARRY DAVIS		LARRY DAVIS							

Posted IO-2-77 7-22-77