

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

Form C-122
Revised 9-1-65

RECEIVED

OCT 15 1970

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-2-70	
Company TEXAS OIL & GAS CORP ✓		Connection None	
Pool SOUTH CARLSBAD		Formation MORROW	
Completion Date 10-1-70		Total Depth 12,143	Plug Back TD 12,098
Elevation 3307 KDB		Farm or Lease Name Pan Am-State Com	
Csg. Size 5 1/2"	Wt. 20#	d 4.778	Set At 12,143
Perforations: From 11,615 To 11,781		Well No. 1	
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 11,533
Perforations: From To		Unit Sec. Twp. Rge. J 11 235 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,533	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 180	Mean Annual Temp. °F 12,143	Baro. Press. - P _a 13.2
State New Mexico		Prover Meter Run X	
L 11,533	H	G _g .60	% CO ₂ 1.08
% N ₂ .29	% H ₂ S --	Taps Flange	
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI	3.068	1.250	L-10
1.	3.068	1.250	6.2
2.	3.068	1.250	6.2
3.	3.068	1.250	6.3
4.	3.068	1.250	6.3
5.			
TUBING DATA			
Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F
3429		Pkr	--
2998	68	Pkr	--
2818	65	Pkr	--
2588	65	Pkr	--
2303	64	Pkr	--
CASING DATA			
Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	9.781 x 3.873	19.22	589.8
2	9.781 x 3.873	23.56	589.8
3	9.781 x 3.873	29.61	608.6
4	9.781 x 3.873	40.32	608.6
5			
Flow Temp. Factor Ft.			
Gravity Factor F _g			
Super Compress. Factor, F _{pv}			
Rate of Flow Q, Mcfd			
1	7577	1.291	1.00
2	7577	1.211	1.00
3	7577	1.231	1.00
4	7577	1.291	1.00
5			
Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons None Deg.			
Specific Gravity Separator Gas .600 X X X X X X X X			
Specific Gravity Flowing Fluid X X X X X .600			
Critical Pressure -672 P.S.I.A. 672 P.S.I.A.			
Critical Temperature 360 R 360 R			
NO.	P _t	Temp. °R	T _f
1	4.48	523	528
2	4.21	521	525
3	3.87	532	525
4	3.45	534	524
5			
Z			
1	901.773		
2	903.758		
3	905.750		
4	905.745		
5			
P _c 3442.2 P _c 11,848.7			
NO.	P _t ²	P _w	P _w ²
1	3015.4	9092.6	2756.1
2	2838.7	8058.2	3790.5
3	2612.8	6826.7	5022.0
4	2340.3	5477.1	6371.6
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.86$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.86$			
KOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,957$			
Absolute Open Flow 2,957 Mcfd @ 15.025			
Angle of Slope 45°			
Slope, n 1.000			
Remarks:			
Approved By Commission:		Conducted By:	Calculated By:
10-17-70		Jim Brannan	George Stephen Bent Water