

DEC 14 1984

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type ☒ C. D. ARTESIA, ☐ Non-Artesian		☐ Annual ☐ Special		Test Date 12-12-84	
Company McCLELLAN OIL CORP. ✓		Connection AIR			
Field S. Perm. Shale Area		Formation ABO		Unit	
Completion Date 12-12-84		Total Depth 4280		Plug Back TD 4250	
Elevation 8531		Farm or Lease Name BEAVER Fee		Well No.	
Casing Size 4 1/2		Set At 1260		Perforations: From 4067 To 4135	
Tubing Size 5 7/8		Set At 4075		Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE		Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO		L		H	
G _g .65		% CO ₂		% N ₂	
% H ₂ S		Prover 2		Meter Run	
Taps					

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							991		999		
1.	2		1/16	909			940		960		1 hr.
2.	2		3/32	805			300		820		"
3.	2		1/8	442			663		690		"
4.	2		3/16	235			497		475		"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf/d
1	.06405		922.2	.9933	1.2403	1.0923	79
2	.1410		818.2	.9962	1.2403	1.0830	154
3	.2648		455.2	.9971	1.2403	1.0437	156
4	.2648		248.2	.9981	1.2403	1.0226	191
5							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Abn.
1	1,567	530	2,655	.9911	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2	1,492	530	2,655	.9911	Specific Gravity Separator Gas	X X X X X X X X
3	1,343	530	2,655	.9913	Specific Gravity Flowing Fluid	X X X X X
4	1,119	530	2,655	.9918	Critical Pressure	670 P.S.I.A.
5					Critical Temperature	373 °R

NO	P ₁ ²	P ₂ ²	P _w ²	P _c ² - P _w ²
1	1041	1083	86	
2	889	790	379	
3	748	560	610	
4	515	265	904	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2931$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 219$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1465$

Post ID-2
1-4-85
Camp + BK

Absolute Open Flow	219	Mscf @ 15.025	Angle of Slope	62	Slope, n	.5317
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Remarks: BOTTOM HOLE PRESSURE DONE WITH AMERADA TYPE GAUGE.

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: KELLY	Checked By:
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McClellan OIL CORP

12/12/84

BEAVERS #2

1" - 1" (cont) 1/10/84

92 1169

0 62° 00 53.17

Q
MSCFPD