

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-4-87	
Company Amoco Production Company				Connection	
Pool Bravo Dome				Formation Tubb	
Completion Date 1-12-81		Total Depth 2650		Plug Back TD 2587	
Elevation 4792		Farm or Lease Name			
Csg. Size 5.50	Wt. 14	d 4.9	Set At 2650	Perforations: From 2220 To 2438	
Log. Size 2.875	Wt. 6.5	d 2.441	Set At 2170	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2170	
Producing Thru Tubing		Reservoir Temp. °F 90		Mean Annual Temp. °F 50	
Baro. Press. - P _g 12.25		State New Mexico			
L	H	G _g	% CO ₂ 100	% N ₂ 0	% H ₂ S. 0
Prover		Meter Run 4.0		Taps Flange	

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.	
SI										
1.	4.026	x	2.50	191	32	57	295	57	0	
2.	4.026	x	2.50	200	28	58	192	58	0	
3.	4.026	x	2.50	212	22	60	200	60	0	
4.	4.026	x	2.50	225	16	59	212	59	0	
5.							225		0	

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							2273
2.							2188
3.							2032
4.							1748
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

A.P.L. Gravity of Liquid Hydrocarbons				Deg.	
Specific Gravity Separator Gas				1.529	
Specific Gravity Flowing Fluid				XXXXXX	
Critical Pressure				1072 P.S.I.A.	
Critical Temperature				496 °R	

P _c 307.25	P _c ² 94,402
-----------------------	------------------------------------

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7918$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4451$
1		204.25	41,718	52,685		
2		212.25	45,050	49,352		
3		224.25	50,288	44,114		
4		237.25	56,288	38,115		
5						

Absolute Open Flow 3285 Mcfd @ 15.025				Angle of Slope @ 32.2620		Slope, n 0.6312	
---------------------------------------	--	--	--	--------------------------	--	-----------------	--

Remarks: Test was run from a low flowing tubing pressure to a high flowing tubing pressure to minimize liquid loading effects.

Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By:
-------------------------	---------------------------------	---------------------------------	-------------