

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 6-26-87	
Company Amoco Production Company		Connection	
Pool Bravo Dome		Formation Tubb	
Completion Date 3-2-81		Total Depth 2545	Plug Back TD 2442
Csg. Size 5.50		Wt. 14	Elevation 4762
Perforations: From 2147 To 2406		Well No. 1934-221F	
Perforations: From To		Unit F 22 19 34	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2070	County Union
Producing Thru Tubing		Reservoir Temp. °F 90	Mean Annual Temp. °F 50
Baro. Press. - P _a 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.		Temp. °F
1.	4.026	x	2.750	194	30	55	201	55	0		24 hrs
2.	4.026	x	2.750	203	26	56	210	56	0		24 hrs
3.	4.026	x	2.750	214	22	57	221	57	0		24 hrs
4.	4.026	x	2.750	225	18	57	232	57	0		24 hrs
5.									0		24 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							2775
2.							2629
3.							2493
4.							2337
5.							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					0		1.529		1072	496
2.										
3.										
4.										
5.										

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1.		213.25	45,475	58,370
2.		222.25	49,395	54,450
3.		233.25	54,405	49,440
4.		244.25	59,658	44,187
5.				

(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.7790$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 4791$

(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.7265$

Absolute Open Flow	4791	Mcfd @ 15.025	Angle of Slope °	43.47	Slope, n	.948
--------------------	------	---------------	------------------	-------	----------	------

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:
-------------------------	---------------------------------	---------------------------------	-------------