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C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-121
Revised 9

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-3-74		APR 29 1974	
Company Amoco Production Company		Connection None		O. C. C.	
Pool Wildcat - Wolfcamp		Formation Wolfcamp		Unit ARTEZIA, DFF	
Completion Date 3/27/74		Total Depth 12,243		Plug Back TD 11400	
Elevation 3246 RDB		Farm or Lease Name Herren Fed. Gas Co.		Well No. 1	
Coq. Size 5 1/2"	Wt. 17#	d 4.892	Set At 12,243	Perforations: From 10026 To 10134	
Coq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10126	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9937	
Producing Tubing Tubing		Reservoir Temp. °F 188 @ 10080		Mean Annual Temp. °F 70	
Baro. Press. - P _a 13.2		State New Mexico		Unit Sec. Twp. Range K 7 24S 12E	
L 1006.0	H 10080	G _q 0.675	% CO ₂ 0.04	% N ₂ 0.66	% H ₂ S Prover
Meter Run X 3"				Temp.	

FLOW DATA						TUBING DATA		CASING DATA		Surf. No. u. F.	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1	3"	X	1 1/2"	2501	4	93	2501	70	"	"	60 ft
2	3"	X	1 1/2"	2394	8	90	2394	70	"	"	60 ft
3	3"	X	1 1/2"	2213	16	80	2213	70	"	"	60 ft
4	3"	X	1 1/2"	2009	25	71	2009	70	"	"	60 ft

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 _{sc}	Rate of Flow
1	11.13	57.5	838.2	0.9697	1.217	1.078	820.6
2	11.13	82.1	843.2	0.9723	1.217	1.078	1166.1
3	11.13	116.8	853.2	0.9813	1.217	1.088	1689.1
4	11.13	146.5	858.2	0.9896	1.217	1.095	2150.3

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio Dry Gas	A.P.I. Gravity of Liquid Hydrocarbons Dry Gas
1	3471.2	Pf ² 12049				
2	3334.2					
3	3110.2					
4	2861.2					

NO.	P ₁	P _s	P _s ²	P _f ² - P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{12049}{3863}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	3471.2	11650	399			
2	3334.2	11117	932			
3	3110.2	9673	2376			
4	2861.2	8186	3863			

AOFC = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3900$

Absolute Open Flow 3900 Mcfd @ 15.025 Angle of Slope 62° Slope.

Remarks: BHP measured with Amerada RPG-3 gauge

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By: E. J. 2
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