

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

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Form C-122
Revised 9-1-55

6 OCT 20 1983

O. C. D.

ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-24-83	
Company AMOCO PRODUCTION COMPANY				Connection TO ATMOSPHERE	
Pool WILDCAT				Formation ATOKA	
Completion Date 8-20-83		Total Depth 14,740'		Plug Back TD 14,730'	
				Elevation 3,348'	
Farm or Lease Name FEDERAL DB				Well No. 1	
Csg. Size 4.500	Wt. 15.1	d 3.826	Set At 14,740'	Perforations: From 13,042' To 13,305'	
Tbg. Size 2.875	Wt. 6.5	d 2.441	Set At 12,956'	Perforations: From 0 To 0	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11,505'	
Producing Thru TUBING		Reservoir Temp. °F 196@ 13,174'		Baro. Press. - P _a 13.2	
Mean Annual Temp. °F 60.0		State NEW MEXICO			
L 13,174'	H 13,174'	G _g 0.828	% CO ₂ 0.28	% N ₂ .043	% H ₂ S 0
Prover 4		Meter Run 0.0		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							8030	82			120.0
1.	4.00 X 1.500		7	0	38		6860	40	0	0	1.0
2.	4.00 X 1.500		12	0	25		5210	46	0	0	0.7
3.	4.00 X 1.500		20	0	8		3395	52	0	0	0.7
4.	4.00 X 1.500		25	0	7		2272	64	0	0	0.7
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 _{pv}	Rate of Flow Q, Mcfd
1	0	0	20.2	1.0218	1.0992	1.0037	669
2	0	0	25.2	1.0355	1.0992	1.0051	930
3	0	0	33.2	1.0541	1.0992	1.0076	1307
4	0	0	38.2	1.0552	1.0992	1.0088	1528
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.03	498	1.16	0.993	A.P.I. Gravity of Liquid Hydrocarbons	0
2.	0.04	485	1.13	0.990	Specific Gravity Separator Gas	0.828
3.	0.05	468	1.09	0.985	Specific Gravity Flowing Fluid	X X X X X
4.	0.06	467	1.09	0.983	Critical Pressure	662 P.S.I.A.
5.					Critical Temperature	428 R

P _c	8023.6	P _c ²	64378
NO.	P _t ²	P _w	P _w ²
1	47241	6907	47702
2	87282	5253	27599
3	11616	3433	11788
4	5222	2286	5227
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0884$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1615$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0569$

*Post ID-2
11-4-83
Comp + BK*

Absolute Open Flow	1615	Mcf/d @ 15.025	Angle of Slope @	56.8	Slope, n	0.654
Remarks:						

Approved By Commission:	Conducted By: John West	Calculated By: Barbara Wagner	Checked By: Winston Smith
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