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State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

AUG 31 1993

Q.1-D.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator AMOCO PRODUCTION COMPANY							Lease or Unit Name PARDUE FARMS GAS COM				
Type Test ☒ Initial ☐ Annual ☐ Special							Test Date 8/17/93		Well No. 1		
Completion Date 6/29/93		Total Depth 13254		Plug Back TD 13030		Elevation		Unit Lr. - Sec. - TWP - Rge. 26 23S 28E			
Csg. Size 7 5/8	Wt. d	Set At 11006	Perforations: From: To:				County EDDY				
Tbg. Size 2 3/8	Wt. d	Set At 1.995 12584	Perforations: From: To:				Pool <i>Living Morrow</i>				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE							Packer Set At 12577		Formation MORROW		
Producing Thru TBG		Reservoir Temp. °F 199.8@12584		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection EPNG			
L 12584	H 12584	Gg .575	% CO ₂ 1.36	% N ₂ .19	% H ₂ S	Prover	Meter Run 2.067	Taps FLG			

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							1244		PKR		48HR
1.	2	X	.500	34.9	5.78	88	1176		"		1 HR
2.	2	X	.500	44.6	20.48	90	1060		"		1 HR
3.	2	X	.500	41.3	28.13	92	950		"		1 HR
4.	2	X	.500	38.0	44.18	97	804		"		1 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	1.190	16.67	48.1	.9741	1.319	1.002	26
2.	1.190	34.41	57.8	.9723	1.319	1.002	53
3.	1.190	39.13	54.5	.9706	1.319	1.002	60
4.	1.190	47.56	51.2	.9662	1.319	1.002	72
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcft/bbl.
1.	.07	548	1.58	.996	A.P. I Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	.08	550	1.59	.996	Specific Gravity Separator Gas	.575	XXXXXXXXXX
3.	.08	552	1.60	.996	Specific Gravity Flowing Fluid	XXXXXX	
4.	.07	557	1.61	.996	Critical Pressure	* 676	P.S.I.A. P.S.I.A.
5.					Critical Temperature	* 345	R R

P_c 1257.2 P_c² 1580.6

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		1189.2	1414.2	166.3
2.		1073.2	1151.9	428.7
3.		963.3	927.9	652.7
4.		817.3	668.0	912.5
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.732$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.380$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .099$

Absolute Open Flow	99	Mcfd @ 15.025	Angle of Slope θ	59.5	Slope, n	.586
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Remarks: NO FLUID PRODUCED DURING TEST

* CORRECTED TO 1.36% CO₂

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JOHN WEST ENG. CO	GW	BM

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