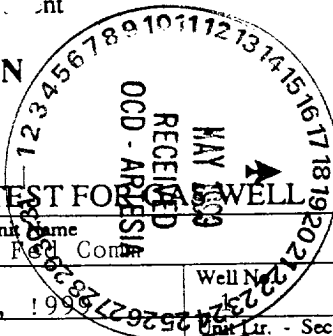


Submit in duplicate to appropriate district office See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505



CLSF

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Anadarko Pet Co. ✓				Lease or Unit Name Arnold Field Comm			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date May 6, 1991		Well No. G 34-17-30	
Completion Date May 5, 1999		Total Depth 11552		Plug Back TD 11390		Elevation 3550 KB	
Csg. Size 4.50	Wt. 11.6	d 4.000	Set At 11550	Perforations: From: 11359 To: 11370		County Eddy	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 11275	Perforations: From: Open To: Ended		Pool Cedar Lake Mor	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Well				Packer Set At 11275		Formation Morrow	
Producing Thru Tubing		Reservoir Temp. °F 164 @ 11338		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2	
L 11359	H 11359	Gg .6640	% CO ₂ 0.000	% N ₂ 0.5498	% H ₂ S 0.000	Prover	Meter Run 4.026
						Taps Flange	

FLOW DATA

NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
						Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	4.026	2.625				3514		5006		
1.	4.026	2.625	483	2.8	82	3294	69	4760		1
2.	4.026	2.625	494	5.5	80	3160	65	4623		1
3.	4.026	2.625	508	11.9	78	2910	58	4420		1
4.	4.026	2.625	512	22.0	72	2326	50	3821		1
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.	36.660	37.32	497.65	0.9801	1.228	1.036	1836
2.	36.660	52.89	508.65	0.9804	1.228	1.038	2767
3.	36.660	78.86	522.65	0.9804	1.228	1.139	3862
4.	36.660	107.63	526.65	0.9804	1.228	1.042	5105
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.74	542	1.44	0.917	A.P. I. Gravity of Liquid Hydrocarbons	Deg.
2.	.76	540	1.44	0.915	Specific Gravity Separator Gas 0.6640	XXXXXXXXXX
3.	.78	538	1.43	0.912	Specific Gravity Flowing Fluid	XXXXXX
4.	.78	532	1.41	0.901	Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 3528.6 P_c² 12451.0

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	10947		11076	1375
2.	10078		10368	2083
3.	8555		9115	3336
4.	5478		6438	6013
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.070$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.598$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8157.79$

Absolute Open Flow 8157.79 Mcfd @ 15.025 Angle of Slope Θ 41.8 Slope, n .645

Remarks:

Approved By Division Conducted By: E. Bothe Calculated By: Precision Pressure Checked By: