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

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-122
Revised 4-1-1991

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Devon Energy Corp				Lease or Unit Name: Southern Cross		
Test Type: ☒ Initial ☐ Annual ☐ Special				Test Date: 09-25-01	Well No.: 32-1	
Completion Date: 08-09-01	Total Depth:		Plug Back TD:	Elevation:	Unit Ltr - Sec - TWP - Rge.:	
Csg. Size: 4.500	Wt.: 11.600	d: 4.000	Set At:	Perforation: From To	County: Eddy	
Tbg. Size: 2.375	Wt.: 4.700	d: 1.995	Set At: 8256	Perforation: From 8381 To 8467	Pool: ~~Southern Cross~~ Antelope S. in N Morrow	
Type Well-Single-Bradenhead-G.G. oG.O. Multiple: single				Packer Set At: 8256	Formation: Morrow	
Producing Thru: tubing	Reservoir Temp.F: 170		Mean Annual Temp.F: 70	Baro. Pressure: 15.02	Connection: 8-31-01	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8424	8424	.600	.64	.43				flange

	Flow Data				Tubing Data		Casing Data		
No.	(Prover) Line Size x Orifice Size	Press. PSIG	Diff. h_w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	SIP/Flow Duration (HRS.)
Shut-in Pressure					1750	90			24
1.	3.07 x .14	391.00	25.00	76	1575	90			1
2.	3.07 x .17	471.00	27.00	84	1470	90			1
3.	3.07 x .19	531.00	38.00	87	1390	90			1
4.	3.07 x .22	475.00	56.00	86	1260	90			1

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.	10.032	100.750	406.0	.9850	1.2911	1.0299	1323.8
2.	10.302	114.554	486.0	.9777	1.2911	1.0341	1540.5
3.	10.302	144.044	546.0	.9750	1.2911	1.0376	1938.3
4.	10.302	165.654	490.0	.9759	1.2911	1.0339	2223.2

No.	P_r	TEMP.	T_r	Z
1.	.602	536	1.513	.9427
2.	.721	544	1.535	.9352
3.	.810	547	1.544	.9288
4.	.727	546	1.541	.9355

Gas-Liquid Hydrocarbon Ratio			Mcf/bbl
API Gravity of Liquid Hydrocarbons			Deg.
Specific Gravity Separator Gas	.600		
Specific Gravity Flowing Fluid		.600	
Critical Pressure	674 PSIA	674	PSIA
Critical Temperature	354 R	354	R

P_C = 1765.0 P_C^2 = 3115.3

No.	Pw	Pw^2	$Pc^2 - Pw^2$
1.	1608.1	2585	529.357
2.	1511.0	2283	832.058
3.	1448.0	2096	1018.652
4.	1337.0	1787	1327.854

(1) $\frac{P_C^2}{P_C^2 - P_W^2} = 2.346$ (2) $\left[\frac{P_C^2}{P_C^2 - P_W^2}\right]^n = 1.687$

$AOF = Q\left[\frac{P_C^2}{P_C^2 - P_W^2}\right]^n = 3749$

Absolute Open Flow	3749	Mcfd @ 15.025	Angle of Slope -	58.5	Slope, n .613
Remarks					
Approved By Division:	Conducted By: "Well Testing"		Calculated By: BPT System		Checked By: