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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 Blackbird			
Test Type ☒ Initial ☐ Annual ☐ Special						Test Date 09-22-01		Well No. 8-2	
Completion Date 06-13-01		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 9148	Perforation: From 9218 To 9336		Pool Blackbird			
Type Well-Single-Bradenhead-G.G. oG.O. Multiple single						Packer Set At 9148		Formation Morrow	
Producing Thru tubing		Reservoir Temp.F 180		Mean Annual Temp.F 70		Baro. Pressure 15.02		Connection	
L 9277	H 9277	Gg .658	% CO ₂ .38	% N ₂ .55	% H ₂ S	Prover		Meter Run	Taps flange

Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
No.	(Prover) Line Sizes Orifice Size	Press. PSIG	Diff. h _w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	
	Shut-in Pressure				800	90			24
1.	2.07 x .08	97.00	30.00	88	690	90			2
2.	2.07 x .09	102.00	36.00	95	630	90			2
3.	2.07 x .11	105.00	46.00	98	600	90			2
4.	2.07 x .13	108.00	57.00	99	550	90			2

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.	1.574	57.971	112.0	.9741	1.2333	1.0089	110.6
2.	1.574	64.905	117.0	.9680	1.2333	1.0089	123.0
3.	1.574	74.303	120.0	.9653	1.2333	1.0090	140.5
4.	1.574	83.739	123.0	.9645	1.2333	1.0092	158.2

No.	P _r	TEMP.	T _r	Z
1.	.167	548	1.471	.9824
2.	.175	555	1.489	.9824
3.	.179	558	1.497	.9822
4.	.184	559	1.500	.9819

Gas-Liquid Hydrocarbon Ratio		Mc/bbl	
API Gravity of Liquid Hydrocarbons		Deg.	
Specific Gravity Separator Gas	.658		
Specific Gravity Flowing Fluid		.658	
Critical Pressure	670 PSIA	670 PSIA	
Critical Temperature	372 R	372 R	

P _C = 815.0		P _C ² = 664.3	
No.	P _w	P _w ²	P _C ² - P _w ²
1.	705.5	497	166.518
2.	645.7	416	247.370
3.	615.9	379	284.938
4.	566.2	320	343.673

$$(1) \frac{P_C^2}{P_C^2 - P_{wv}^2} = 1.933 \quad (2) \left[\frac{P_C^2}{P_C^2 - P_w^2} \right]^n = 1.415$$

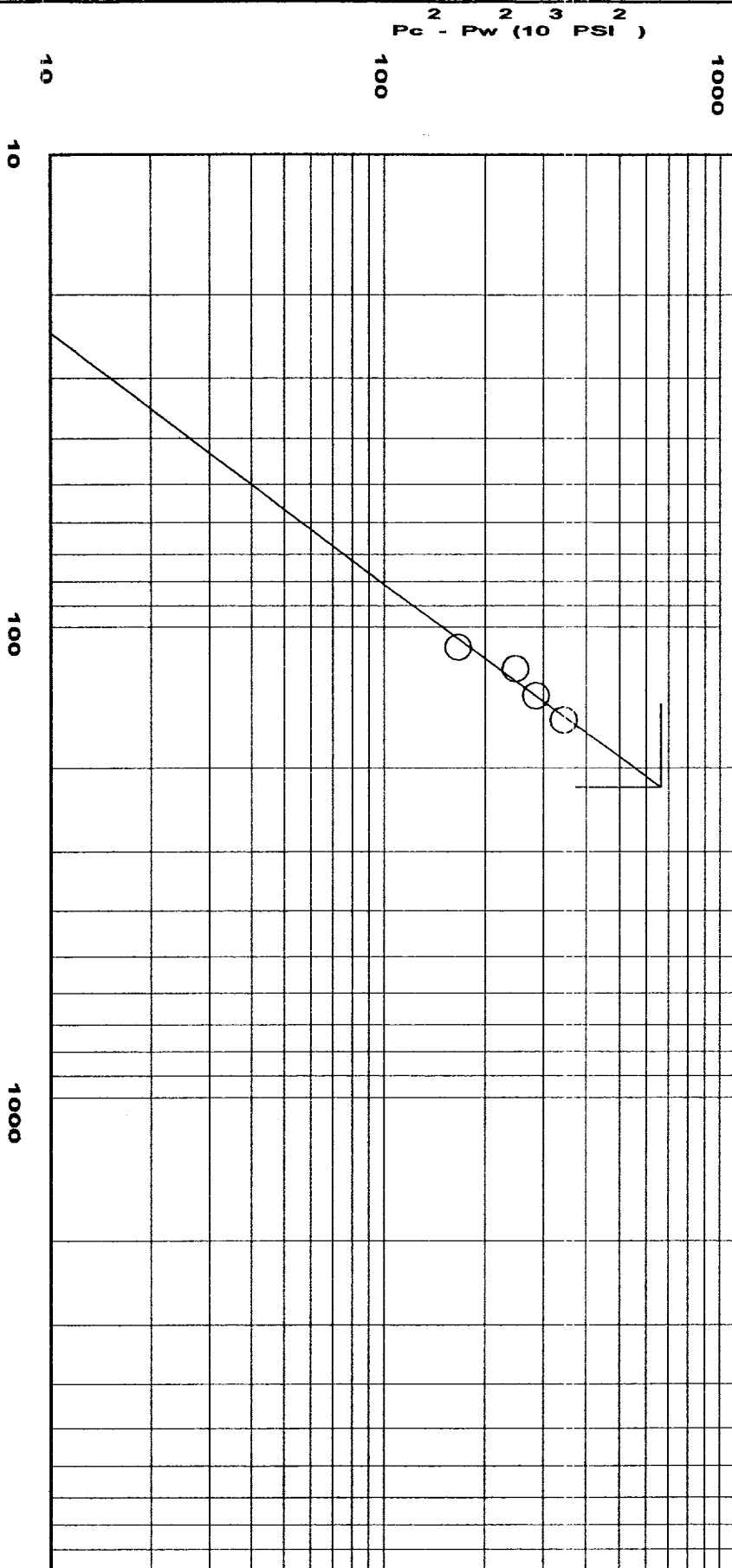
$$AOF = Q \left[\frac{P_C^2}{P_C^2 - P_w^2} \right]^n = 223$$

Absolute Open Flow	223	Mcf/d @ 15.025	Angle of Slope -	62.2	Slope, n	.527
Remarks						
Approved By Division:	Conducted By: "Well Testing"	Calculated By: BPT System	Checked By:			

GAS WELL BACK PRESSURE CURVE

WELL TESTER: "Well Testing"
TEST DATE: 09-22-01

Devon Energy Corp
Blackbird 8-2
Eddy ,NM.
Exponent n: 0.5267



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