

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

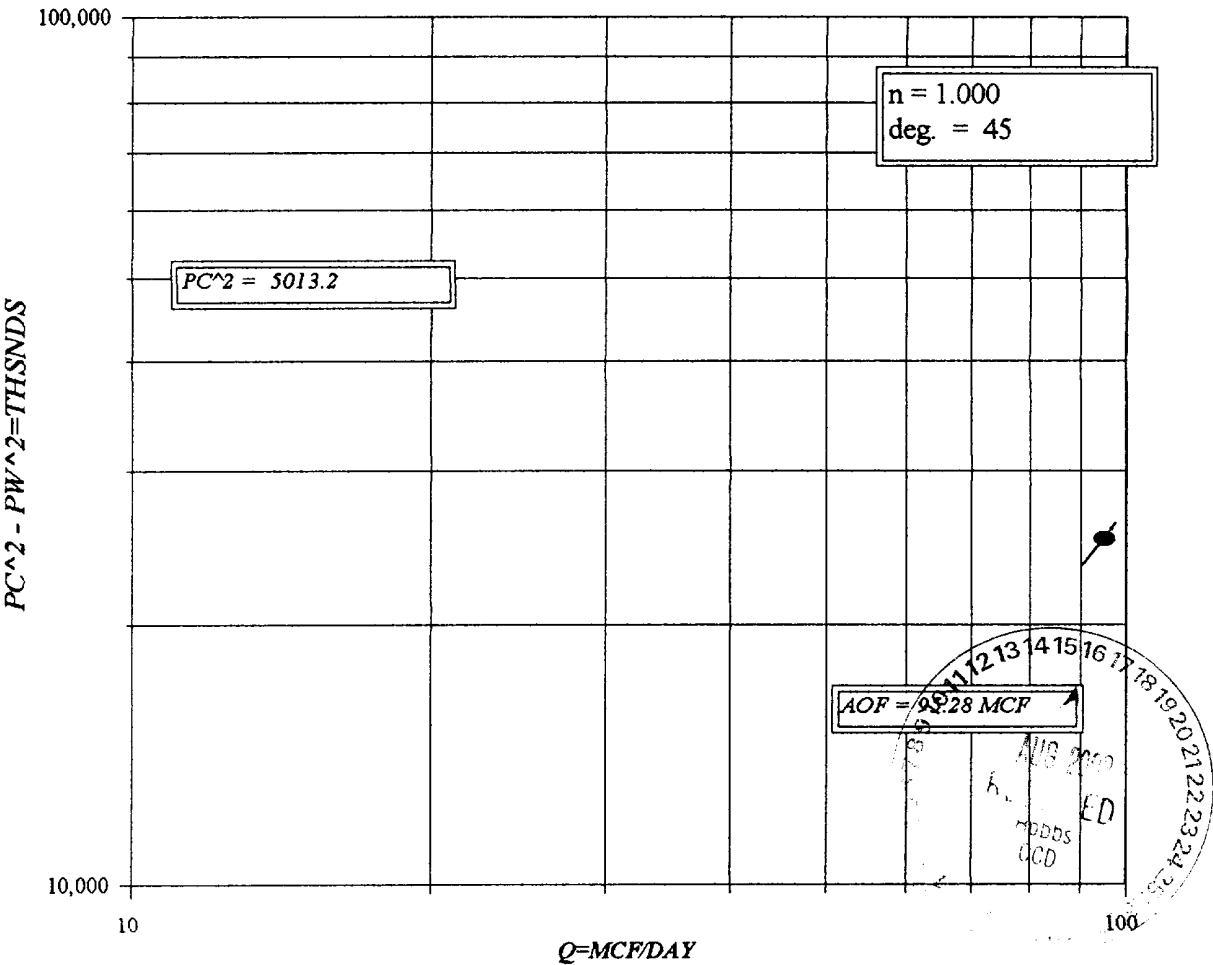
Operator CHAMPLIN EXPLORATION, INC.					Lease or Unit Name POGO STATE				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8/4/02		Well No. 1		
Completion Date 8/1/02		Total Depth 12600		Plug Back TD 12240		Elevation 3624.5		Unit Ltr - Sec - TWP - Rge K 20 21 35	
Csg. Size 4	Wt. 11#	d 3.476	Set At 12600	Perforations: From: 11130 To: 11153			County LEA		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11057	Perforations: From: OPEN To: ENDED			Pool GR. RIDGE N. WOLF.		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11057			Formation WOLFCAMP		
Producing Thru Tbg. Size		Reservoir Temp. °F 166.1 @ 11057		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection DUKE ENERGY	
L 11057	H 11057	Gg 0.629	%CO ₂ 0.397	%N ₂ 0.727	%H ₂ S N/A	Prover N/A	Meter Run 3.068	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice x 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						5000		PKR	
1	3.068	X 1.000				250		"	
2									
3									
4									
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		✓ 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								95	
2									
3	MEASURED		BY	TOTAL	FLOW	METER			
4									
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		DRY GAS		Mcf bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons		DRY GAS		Deg.
2					Specific Gravity Separator Gas		0.629		XXXXXX
3		N/A			Specific Gravity Flowing Fluid		XXXXX		0.629
4					Critical Pressure		671		P.S.I.A.
5					Critical Temperature		365		R. 400.62
P _c		5013.2		P ₂		25132.2			
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.003}{P_c^2 - P_w^2}$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.09528$ 79825 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.003$				
1		263.4	69.4	25062.8					
2									
3									
4									
5									
Absolute Open Flow		95		Mcf/d @ 15.025		Angle of Slope Q:		45	
						Slope n:		1	
Remarks: NO FLUID PRODUCED									
Approved By Division:		Conducted By:		Calculated By:		Checked By:			
ORIGINAL SIGNED BY		JARREL SERVICES, INC.		BM		BM			

PAUL F. KAUTZ
PETROLEUM ENGINEER

AUG 21 2002

CHAMPLIN EXPLORATION, INC.

POGO STATE #1



VOL 3 :
VOL 4 :

PSIA 3 :
PSIA 4 :

SHOT-IN PR= 5013.2

PCR : 671
TCR : 365

ERR
ERR

ERR
ERR

n = 1.000 ✓

Pc2/(Pc2-Pw2) = 1.003 ✓

ERR
ERR
ERR

[Pc2/Pc2-Pw2]n = 1.003 ✓

ERR
ERR
ERR

AOF= Q 0.095 ✓

ERR

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.095	0.095	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1
4 T	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
PR (est)	0.39		0.00		0.00		0.00	
5 Z(est)	0.944	0.940	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	547.7	545.3	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	12.698	12.754	ERR	ERR	ERR	ERR	ERR	ERR