

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

State of New Mexico

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 Bass Enterprises Production Co					Lease or Unit Name Poker Lake Unit				
Test Type ☒ Initial ☐ Special					Test Date 12-13-00		Well No. 147		
Completion Date 12-01-00		Total Depth 13250		Plug Back TD 13215		Elevation 3436.1 GL		Unit Ltr - Sec - TWP - Rgc. Sec 5 TWP 25S Rge 31E	
Csg. Size 5.000	Wt. 18.000	d 4.276	Set At 13246	Perforation: From To		County Eddy			
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 12718	Perforation: From 12910 To 13039		Pool Big Sinks <i>Wiscap</i>			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple Single					Packer Set At 12698		Formation Wolfcamp		
Producing Thru Tubing		Reservoir Temp.F 185		Mean Annual Temp.F 60		Baro. Pressure 13.00		Connection Sid Richardson	
L 12975	H 12975	Gg .652	% CO ₂ .78	% N ₂ .72	% H ₂ S	Prover		Meter Run Taps Flange	

12975		12975		.032							
Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)		
No.	(Prover)	Press. PSIG	Diff. h _w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F			
Line Size x Orifice Size											
Shut-in Pressure					4987	80			24		
					1487	80			24		
1.	4.03 x .41	425.00	41.00	75							
2.											
3.											
4.											

RATE OF FLOW CALCULATIONS

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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.	14.355	134.007	438.0	.9859	1.2384	1.0383	2438.8
2.							
3.							
4.							

No.	P _r	TEMP.	T _r	Z
1.	.652	535	1.445	.9275
2.				
3.				
4.				

Gas-Liquid Hydrocarbon Ratio	42.8	Mcf/bbl
API Gravity of Liquid Hydrocarbons	60.0	Deg.
Specific Gravity Separator Gas	.652	
Specific Gravity Flowing Fluid	.718	
Critical Pressure	671 PSIA	668 PSIA
Critical Temperature	370 R	391 R

$$P_C = 5000.0 \quad P_C^2 = 25000.0$$

No.	P _w	P _w ²	P _C ² - P _w ²
1.	1537.8	2364	*****
2.			
3.			
4.			

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = 1.104 \quad (2) \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 1.104$$

$$AOF = Q \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 2693$$

Absolute Open Flow		2693	Mcf/d @ 15.025	Angle of Slope - 45.0	Slope, n 1.000
Remarks					
Approved By Division:		Conducted By:		Calculated By: BPT System	
				Checked By:	