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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-1991

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

30-015-31085

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 ☐ Annual ☐ Special					Test Date 08-22-01		Well No. 148		
Completion Date 08-09-01		Total Depth 13318		Plug Back TD 13067		Elevation 3442.3' GL		Unit Ltr - Sec - TWP - Rge. H, 32, 24S-31E	
Csg. Size 4.500	Wt. 13.500	d 3.920	Set At 13318	Perforation: From To			County Eddy		
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 12220	Perforation: From 12904 To 12996			Pool Big Sinks		
Type Well-Single-Bradenhead-G.G. oG.O. Multiple single					Packer Set At 12815		Formation Wolfcamp		
Producing Thru tubing		Reservoir Temp.F 197		Mean Annual Temp.F 70		Baro. Pressure 13.00		Connection	
L 12950	H 12950	Gg .685	% CO ₂ .45	% N ₂ .55	% H ₂ S	Prover		Meter Run flange	Taps

Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
(Prover) No. Line Size x Orifice Size	Press. PSIG	Diff. h _w	Temp. F		Press. PSIG	Temp. F	Press. PSIG	Temp. F	
Shut-in Pressure					8140	90			24
1. 4.03 x .50	881.00	4.78	68		895	85			72
2.									
3.									
4.									

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.	68.381	65.343	894.0	.9924	1.2082	1.0986	5886.0
2.							
3.							
4.							

No.	P _r	TEMP.	T _r	Z
1.	1.336	528	1.384	.8285
2.				
3.				
4.				

Gas-Liquid Hydrocarbon Ratio	17658.1	Mcf/bbl
API Gravity of Liquid Hydrocarbons	60.0	Deg.
Specific Gravity Separator Gas	.685	
Specific Gravity Flowing Fluid	.685	
Critical Pressure	669	PSIA
Critical Temperature	381	R

$P_C = 8153.0$ $P_C^2 = 66471.4$

No.	P _w	P _w ²	P _c ² - P _w ²
1.	1241.3	1540	*****
2.			
3.			
4.			

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = \frac{1.024}{\frac{P_C^2}{P_C^2 - P_W^2}} = 1.024$$

$$AOF = Q \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = \frac{6025}{\frac{P_C^2}{P_C^2 - P_W^2}} = 6025$$

Absolute Open Flow	6025	Mcf/d @ 15.025	Angle of Slope -	45.0	Slope, n	1.000
Remarks						
Approved By Division:	Conducted By:		Calculated By:		Checked By:	
			BPT System			