

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-9-75		JUN 24 1975	
Company PERRY R. BASS Basic Enterprises Production Co.						Connection Natural Gas Pipeline of America			
Pool Burton Flats <i>Snow</i>						Formation Morrow			
Completion Date Feb. 15, 1975		Total Depth 11,760'		Plug Back TD 11,686'		Elevation 3286' Gr.		Farm or Lease Name 22 State Communitized	
Csg. Size 5 1/2"	Wt. 20	d 11723	Set At 11723	Perforations: From 11,395 To 11,646		Well No. Q-1			
Tbg. Size 2 3/8"	Wt. 4.7	d 11350	Set At 11350	Perforations: From — To —		Unit C	Sec. 22	Twp. 21S	Rge. 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,350		County Eddy	
Producing Thru Tubing 11639		Reservoir Temp. °F 195 @ 11639		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 11639	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run X	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice 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	3"						3345	77			
1.	3"		1.375	820	2	82	3126	79			1 hr.
2.	3"		1.375	820	6.8	96	2952	80			1 hr.
3.	3"		1.375	820	16.5	111	2719	81			1 hr.
4.	3"		1.375	908	29.6	113	2449	81			1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	9.249	40.49	820	.9822	1.319	1.065	517
2.	9.249	74.67	820	.9813	1.319	1.050	939
3.	9.249	116.32	820	.9804	1.319	1.050	1461
4.	9.249	163.94	908	.9804	1.319	1.055	2069
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	1.22	542	1.57	.882	A.P.I. Gravity of Liquid Hydrocarbons	Dry	
2.	1.22	556	1.61	.907	Specific Gravity Separator Gas	.585	X X X X X X X X
3.	1.22	571	1.65	.907	Specific Gravity Flowing Fluid	X X X X X	.585
4.	1.35	573	1.66	.898	Critical Pressure	675 P.S.I.A.	675 P.S.I.A.
5.					Critical Temperature	350 R	350 R

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 2.501$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 2.501$
1.		3205.3	10274.0	932.4		
2.		3038.3	9231.3	2026.1		
3.		2838.2	8055.4	3202.2		
4.		2599.2	6755.8	4501.6		
5.						

Absolute Open Flow 5174.6 Mcfd @ 15.025		Angle of Slope θ 45°	Slope, n 1.000
Remarks:			
Approved By Commission:			
Conducted By: <i>J. H. Kirby</i>		Calculated By:	Checked By: