"1 " C-122-A

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 3-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
SEP 15 1976
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 8-28-76

Company: ~~Bass Enterprises Production Co~~ Perry R. Bass — Connection: Natural Gas Pipeline — Unit:

Pool: ~~Undesignated~~ Wildcat Morrow — Formation: Morrow

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
8-28-76	13544'	13,130'	3304.7	Big Eddy Unit

Csg. Size	Wt.	d	Set At	Perforations	Well No.
5½	17		13,529	From 13,073 To 13,082	44

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2 7/8	6.5		12,498	From To	H	16	21S	30E

Type Well - Single - Bradenhead - G.G. or G.O. Multiple	Packer Set At	County
Single	12,437	Eddy

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P_a	State
Tubing	187 @ 13,077	60	13.2	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13,077	13,077	0.592	None	None	None		4.026	Flange

NO	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3774		800		96 hr.
1.	4.026 x 1.375	630	3.9	83	3401	73	800		2 hr.
2.	4.026 x 1.375	630	9.5	86	2991	73	800		2 hr.
3.	4.026 x 1.375	630	18.0	86	2496	74	800		2 hr.
4.	4.026 x 1.375	630	28.7	82	1941	74	800		2 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	9.071	50.08	643.2	.9786	1.2997	1.0474	605
2	9.071	78.17	643.2	.9759	1.2997	1.0464	941
3	9.071	107.60	643.2	.9759	1.2997	1.0464	1295
4	9.071	135.87	643.2	.9795	1.2997	1.0478	1644
5							

NO.	P_t	Temp. °R	T_r	Z
1	.96	543	1.53	.911
2	.96	546	1.53	.913
3	.96	546	1.53	.913
4	.96	542	1.52	.911
5				

Gas Liquid Hydrocarbon Ratio 178 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 49.3 Deg.
Specific Gravity Separator Gas .592 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .608
Critical Pressure 673 P.S.I.A. 672 P.S.I.A.
Critical Temperature 356 R 361 R

P_c 3774 P_c^2 14,244

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3397	11542	2702
2		2990	8938	5306
3		2496	6231	8013
4		1948	3794	10450
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3630$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2579$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2068$

Absolute Open Flow 2068 Mcfd @ 15.025 Angle of Slope θ 53.5 Slope, n .741

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JOHN SPRUELL		