

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

RECEIVED
Form C-122
Revised 9-1-63

MAY 19 1983

Type Test ☐ Initial ☐ Annual 4-POINT ☒ Special				Test Date 5-14-83		O.C.D. 1980 FNL	
Company BASS ENTERPRISES PROD. CO.				Connection EL PASO PIPELINE		660 FWL	
Pool DUBLIN RANCH ATOKA GAS				Formation ATOKA		Unit #5	
Completion Date 5/6/83		Total Depth 12,693		Plug Hole 11,414		Elevation 3110KB	
Perforations: From 11214 To 11220		Perforations: From 11332 To 11335		Farm or Lease Name BIG CHIEF		Well No.	
Type Well - Single - (Floodhead - G.O. or O.O. Multiple) SINGLE		Packer Set At 11100		County EDDY		State NEW MEXICO	
Producing Thru TUBING		Reservoir Temp. °F 182 @ 11274		Mean Annual Temp. °F 60.0		Base Press. - P _g 13.2	
L 11274	M 11274	Q _g 0.604	% CO ₂ 4.71	% N ₂ 0.74	% H ₂ S 0	Provel 0	Meter Run 6.1
Taps FLANGE							

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Provel 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.		CHOKE
SI							4265		5511		73.0
1	6.07	X	1.500	371	4.0	71°	4075	72°	5300	6/64	1.0
2	6.07	X	1.500	371	13.3	69°	3663	68°	4720	8/64	1.0
3	6.07	X	1.500	374	21.6	69°	3465	66°	4491	8.75/64	1.0
4	6.07	X	1.500	377	27.6	69°	3260	66°	4248	9.5/64	1.0
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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. Compres. Factor F _{pv}	Rate of Flow Q, Mcfd
1	10.70	39.21	384.4	0.9896	1.2867	1.0282	549
2	10.70	71.56	284.4	0.9915	1.2867	1.0285	1004
3	10.70	91.46	386.9	0.9915	1.2867	1.0287	1284
4	10.70	103.76	390.6	0.9915	1.2867	1.0290	1457
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NO.	P ₁	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Rate of Flow Q, Mcfd
1	0.56	531	1.52	0.946	72.4	52.0	0.604	XXXXXX	692	350	549
2	0.56	529	1.51	0.945				XXXXXX			1004
3	0.56	529	1.51	0.945							1284
4	0.56	529	1.51	0.944							1457
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NO.	P ₁ ²	P _w ²	R _w ²	P ₁ ² - R _w ²	(1) $\frac{P_g^2}{P_1^2 - R_w^2} = 2.2876$	(2) $\left[\frac{P_1^2}{P_1^2 - R_w^2} \right]^n = 2.1059$
1	28230	4090	16729	1528		
2	22403	3597	12937	5320		
3	20288	3406	11599	6658		
4	18158	3206	10276	7981		
5						

Absolute Open Flow 3068. Mcfd @ 15.025				Angle of Slope @ 48.0		Slope, n - 900	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS							
Approved By Commission		Conducted By: DON BENNETT		Calculated By: BENNETT & CATHEY		Checked By:	