

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

File ✓
C-122
Form C-122
Revised 6-1-65

RECEIVED

JUN 11 1979

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-29-79	
Company Perry R. Bass				Connection None	
Pool <i>East Carlsbad morrow</i> Undesignated				Formation Morrow	
Completion Date 5-29-79		Total Depth 12,108		Plug Back TD 12,024	
Elevation 3149 KB		Farm or Lease Name Big Eddy			
Csg. Size 5 1/2	Wt. 17	Set At 12024	Perforations: From 11630 To 11770		Well No. 65
Thq. Size 2 3/8	Wt. 4.7	Set At 11420	Perforations: From To		Unit Sec. Twp. Rye. C 31 21S 28E
Type Well - Single - Frothead - G.G. or G.O. Multiple Single				Facker Set At 11,420	
Producing Thru Tubing				State New Mexico	
Reservoir Temp. °F 191 & 11447		Mean Annual Temp. °F 68		Baro. Press. - P _a 13.2	
L 11,420	H 11,420	Gg .65	% CO ₂ 0	% N ₂ 0	% H ₂ S 0
Prover 0		Meter Run 4.026		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							3702				
1.	4.026		1.0	240	14	90	3389	72	Packer		60 Min.
2.	4.026		1.0	330	19	116	3014	74	in		60 Min.
3.	4.026		1.0	332	28	120	2545	75	Well		60 Min.
4.	4.026		1.0	620	38	110	1829	76			60 Min.
5.	4.026		1.0	625	48	88	1461	74			60 Min.

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	4.753	59.54	253.2	.9723	1.240	1.023	349
2	4.753	80.75	343.2	.9585	1.240	1.027	468
3	4.753	98.31	345.2	.9469	1.240	1.028	577
4	4.753	155.12	633.2	.9551	1.240	1.051	918
5	4.753	175.02	638.2	.9741	1.240	1.057	1062

NO.	F _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.38	550	1.47	.955	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.51	576	1.53	.948	Specific Gravity Separator Gas .65 X X X X X X X X
3	.52	580	1.55	.947	Specific Gravity Flowing Fluid X X X X X
4	.95	570	1.52	.906	Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
5	.95	548	1.46	.895	Critical Temperature 375 R _____ R

F _c 4892.2 P _c ² 23934				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4967$		(2) $\left[\frac{F_c^2}{P_c^2 - P_w^2} \right]^n = 1.4808$	
NO.	F _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		4603.2	21189	2745			
2		4132.2	17075	6859			
3		3773.2	14237	9697			
4		3249.2	10557	13377			
5		2818.2	7943	15991			

Absolute Open Flow 1573		Mcf @ 15.025		Angle of Slope @ 46°		Slope, n .974	
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Remarks: Pw Substituted for Pt measured with Amerada Instrument No. 37209 - 0-7300 Element	
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Approved By Commission:	Conducted By: Pyle	Calculated By: Spruell	Checked By: Pyle
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