

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

Form C-122
Revised 9-1-65

MAY 31 1979

Type Test: ☒ Initial ☐ Annual ☐ O.C.C. ☐ Special		Test Date: 5-24-79	
Company: <u>Rockwell Drilling Company</u>		Connection: <u>El Paso Natural Gas Company</u>	
Pool: <u>Pay Track</u>		Formation: <u>Morrey</u>	
Completion Date: <u>4-27-79</u>	Total Depth: <u>11320</u>	Plug Back TD: <u>11263/11270</u>	Elevation: <u>N/A</u>
Casing Size: <u>17.0</u>		Set At: <u>11320</u>	Perforations: <u>11194 To 11225</u>
Casing Weight: <u>4.7</u>		Set At: <u>11129</u>	Perforations: <u>From open To ended</u>
Type of Sample: <u>Single - Bradenhead - G.G. or G.O. Multiple</u>		Packer Set At: <u>11129</u>	Form or Lease Name: <u>Triggs - Jennings</u>
Pressure: <u>11229</u>	Reservoir Temp. °F: <u>185</u>	Mean Annual Temp. °F: <u>60</u>	Baro. Press. - P _a : <u>13.2</u>
Grav. <u>11229</u>	Grav. <u>.619</u>	% CO ₂ <u>.58</u>	% N ₂ <u>.32</u>
		% H ₂ S <u>.34</u>	Prover <u>4"</u>

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
1	1.250			565	3.24	96	2183				1 hr.
2	1.250			569	7.84	80	1934				1 hr.
3	1.250			578	15.21	76	1658				1 hr.
4	1.250			585	26.01	75	1302				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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	7.169	43.28	576.2	.9671	1.271	1.045	415
2	7.169	67.56	582.2	.9813	1.271	1.046	658
3	7.169	94.83	591.2	.9850	1.271	1.047	928
4	7.169	124.74	598.2	.9859	1.271	1.047	1222
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NO.	P _w	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcfd/bbl.
1	2197.5	556	1.54	.915	A.P.I. Gravity of Liquid Hydrocarbons		
2	1950.8	540	1.49	.914	Specific Gravity Separator Gas	.619	XXXXXXX
3	1679.6	536	1.48	.913	Specific Gravity Flowing Fluid	XXXXX	
4	1334.2	535	1.48	.912	Critical Pressure	671	P.S.I.A. P.S.I.
5					Critical Temperature	362	R

NO.	P _w	P _w ²	P _w ² - R _w ²	$(1) \frac{P_c^2}{P_c^2 - R_w^2} = 1.376$ $(2) \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.376$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.681$
1	2197.5	4828.8	1679.8	
2	1950.8	3805.5	2703.1	
3	1679.6	2821.0	3687.6	
4	1334.2	1780.0	4728.6	

Absolute Open Flow	1.681	Mcfd @ 15.025	Angle of Slope θ	45	Slope, n	1.025
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Remarks: Well made no fluid during test.

Approved By Commission:	Conducted By: <u>Bob McMurray</u>	Calculated By: <u>Bob McMurray</u>	Checked By:
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