

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/2/73	
Company El Paso Natural Gas Company				Connection None			
Pool Rhodes				Formation Yates		Unit	
Completion Date 12-2-73		Total Depth 3130		Plug Back TD		Elevation 2981.9 Gr	
Farm or Lease Name Rhodes GSU							
Csg. Size 4 1/2	Wt. 10.5	d	Set At 3130	Perforations: From 2813 To 3012		Well No. 9	
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 2742	Perforations: From To		Unit Sec. Twp. Rge. 10 26 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
State New Mexico							
L	H	Gg .650 Assumed	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run Taps

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							433	59	433	59	18 Hr.
1.	2 x 1/8			414		63	414	60	415	60	45 Min
2.	2 x 3/16			394		67	394	64	395	64	45 Min
3.	2 x 7/32			382		69	382	66	384	66	30 Min
4.	2 x 1/4			364		70	364	70	368	70	45 Min
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	.2648		427.2	.9971	1.240	1.044	146
2	.6082		407.2	.9933	1.240	1.041	317
3	.8393		395.2	.9915	1.240	1.040	424
4	1.087		377.2	.9905	1.240	1.038	523
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.64	523	1.39	.918	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.61	527	1.40	.922	Specific Gravity Separator Gas _____ X X X X X X X X
3.	.59	529	1.40	.924	Specific Gravity Flowing Fluid _____ X X X X X
4.	.56	530	1.40	.929	Critical Pressure _____ 670 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 375 _____ R _____ R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		428.2	183.4	4.1
2		408.2	166.6	20.9
3		397.2	157.8	29.7
4		381.2	145.3	42.2
5				

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.44$
 $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .810$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.175$

Absolute Open Flow	1.175	Mcfd @ 15.025	Angle of Slope θ	61.5	Slope, n	.543
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Remarks: No fluid made at these rates.

Approved By Commission	Conducted By: R. Reston, R. Pagan	Calculated By: Rick Pagan	Checked By:
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