

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

Form C-122
Revised 9-1-65

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2-172

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DEC 17 1975

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/9/75			
Company Michael P. Grace						Connection El Paso Natural Gas Company		ARTESIA, OFFICE	
Pool Undersigned White City Penn						Formation Morrow		Unit K	
Completion Date 11/30/75		Total Depth 11640		Plug Back TD 11632		Elevation		Farm or Lease Name White Baby	
Csg. Size 5 1/2	Wt. 17 & 20	d	Set At 11640	Perforations: From 11260 To 11572		Well No. 1			
Tbg. Size 2 7/8	Wt.	d	Set At 11228	Perforations: From To		Unit K	Soc. 16	Twp. 24	Rge. 26
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11184		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 188 @ 11,416		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 11,228	H 11,228	Gg .574	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.	

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							3700				72 hr.
1.	4 x	2.000		400	4.00	95	2935				1 hr.
2.	4 x	2.000		402	7.02	80	2411				1 hr.
3.	4 x	2.000		408	10.89	78	1785				1 hr.
4.	4 x	2.000		410	12.96	87	1055				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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	19.81	40.65	413.2	.9680	1.320	1.100	1132
2.	19.81	53.99	415.2	.9813	1.320	1.119	1550
3	19.81	67.73	421.2	.9831	1.320	1.110	1933
4.	19.81	74.06	423.2	.9750	1.320	1.068	2017
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	4.39	555	1.60	.826	Dry		.574		672	346
2.	3.61	540	1.56	.798						
3.	2.68	538	1.55	.811						
4.	1.59	547	1.58	.877						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		2953.8	8724.9	5063.0
2		2430.2	5905.9	7882.0
3		1809.9	3275.7	10512.2
4		1089.3	1186.6	12601.3
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.312$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.366$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.224$$

Absolute Open Flow 2,366 Mcfd @ 15.025	Angle of Slope 53.25	Slope, n .745
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Remarks:

Approved By Commission:	Conducted By: Reggie Reston & Rick Pagan	Calculated By: J. B. Murray	Checked By:
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