OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122-C
Revised 10-1-78

DELIVERABILITY TEST REPORT

RECEIVED
OCD ARTESIA

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 7/15/00	
Company: Read & Stevens, Inc.			Connection: GPM Gas Corporation		
Pool: Buffalo Valley			Formation: Morrow		Unit
Completion: 4-19-97	Total Depth: 9050'		Plug Back TD: 8998'	Elevation: 3492' GR	Farm or Lease Name: Harris Federal
Csg. Size: 5 1/2" / Wt.: 17# / d: 4.892 / Set At: 9040'			Perforations: From 8654' To 8678'		Well No.: 11
Tbg. Size: 2 3/8" / Wt.: 4.6# / d: 1.995 / Set At: 8546'			Perforations: From To		Unit: N / Sec.: 26 / Twp.: 15S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 8546'		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 157 @ 8660'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg.	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8666	8666	0.634	0.3	1.20				

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Choke Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	Total Flow Meter			73	320				48 hrs
1.				65	160				1 hr

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.				0.9962	1.256	1.012	999

NO.	P_r	Temp. R.	T_r	Z
	0.355	524	1.54	0.968

P_d 59.2
P_d^2 3.50
P_c 350.0 P_c^2 131.9

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: 0.634 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 p.s.i.a. ____ p.s.i.a.
Critical Temperature: 370 R ____ R
Pf ____ P_f^2 ____

NO.	P_t	P_t^2	$P_c^2 - P_t^2$	P_w	P_w^2	$P_c^2 - P_w^2$	P_a	P_a^2	$P_f^2 - P_a^2$
	173	30	81	251.4	63.2	47.8	302.5	91.5	

$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right] = \left[\frac{111-3.75}{111-63.2}\right] = 2.243$

$\text{Log}\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right] = 0.3508$

$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = 1.498$

$n \text{ Log}\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right] = 0.175$

$\text{Deliv.} = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n$

Deliv. 1.496 Mcfd
n 0.50
Multi Point Back Pressure Test
(Source of n)

Division ____
Company Read & Stevens, Inc.
Others ____