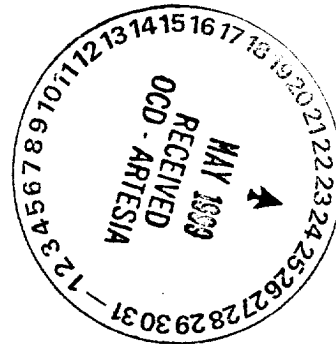


CHARLES B. READ
PRESIDENT

Read & Stevens, Inc.

*Oil Producers
P. O. Box 1518
Roswell, New Mexico 88202*



May 21, 1999

New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210-2834

RE: Harris Federal #11 ✓
Section 26 T15S-R27E
Chaves County, New Mexico
De Novo Case #11514
Order #R10622

Ladies & Gentlemen:

Enclosed please find Form C-122-C for the subject well. Per the subject order number, Read & Stevens, Inc. is required to conduct a deliverability test into the pipeline on the subject well. The deliverability test was performed April 24, 1999 and the Artesia OCD office was advised of the date and time of the test.

Please note on the Form C-122-C that the stabilized test rate into the pipeline was 1,206 MCF, and the calculated deliverability at pipeline pressure using the "n" from the Multipoint Back Pressure Test was 1,922 MCFD. Taking the deliverability of 1,922 MCFD times fifty percent (50%) would yield an allowable of 961 MCFD for the subject well.

If you have any questions, please advise.

Sincerely,

READ & STEVENS, INC.


John C. Maxey, Jr.
Operations Manager

JCM/sr/jcm/lttrs/ocdha11L3.wpd

Enclosure
xc: File, Partners

DELIVERABILITY TEST REPORT

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

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special		Test Date 4/24/99	
Company Read & Stevens, Inc.		Connection GPM Gas Corporation	
Pool Buffalo Valley		Formation Morrow	
Completion 4-19-97	Total Depth 9050'	Plug Back TD 8998'	Elevation 3492' GR
Farm or Lease Name Harris Federal		Well No. 11	
Csq. Size 5 1/2"	Wt. 17#	d 4.892	Set At 9040'
Perforations: From 8654' To 8678'		Unit Sec. Twp. Rge. N 26 15S 27E	
Tbg. Size 2 3/8"	Wt. 4.6#	d 1.995	Set At 8546'
Perforations: From To		County Chaves	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Single		Packer Set At 8546'	
Producing Thru Tubing		State New Mexico	
Reservoir Temp. °F 157 @ 8660'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	
L 8666	H 8666	Gq. 0.634	% CO ₂ 0.3
% N ₂ 1.20	% H ₂ S	Prover	Meter Run
Taps			
FLOW DATA			
NO.	Prover Line Size	Choke Orifice Size	Press. p.s.i.g.
SI	Total Flow Meter		
1.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.			48 hrs
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.			3 hrs
NO.	Coefficient (24-Hour)	Pressure P _m	Flow Temp. Factor F _t
1.			
NO.	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1.			
NO.	P _r	Temp. R.	T _r
1.	0.456	522	1.55
Z 0.958			
Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons Dry			
Specific Gravity Separator Gas 0.634			
Specific Gravity Flowing Fluid XXXXX			
Critical Pressure 674 p.s.i.a.			
Critical Temperature 367 °R			
P _i P _i ²			
NO.	P _i	P _i ²	P _c ² - P _i ²
1.	233	54.4	108.2
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	315.8	99.7	62.9
NO.	P _s	P _s ²	P _i ² - P _s ²
1.	381.4	145.5	

$$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \left[\frac{162.6 - 2}{162.6 - 99.7} \right]^{94} = 2.539$$

$$\text{Log} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = 0.4047$$

$$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1.594$$

$$n \text{ Log} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = 0.202$$

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

Deliv. 1922 Mcfd

n 0.50

Multi Point Back Pressure Test
(Source of n)

Division

Company Read & Stevens, Inc.

Others