UNITED BANK PLAZA 400 N. PENN, SUITE 1000

> CHARLES B. READ PRESIDENT

Read & Stevens, Inc.

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

October 23, 1997

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 Semiannual Deliverability Test 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 every six months into the pipeline on the subject well. The order went on to state that Read & Stevens, Inc. would be assessed a production penalty of fifty percent (50%) of the wells ability to produce into a pipeline as determined from the deliverability test. The deliverability test was performed October 18, 1997 and the Artesia OCD office was advised of the date and time of the test. Read & Stevens, Inc. was advised that if there was no OCD representative on location at test time to proceed with the test. There was no witness from the OCD.

Please note on the Form C-122-C that the twenty four (24) hour test into the pipeline was 1,448 MCF, and the calculated deliverability at pipeline pressure using the "n" from the Multipoint Back Pressure Test of April 14, 1997 was 1,767 MCFD. Taking the deliverability of 1,767 MCFD times fifty percent (50%) would yield an allowable of 884 MCFD for the subject well. Please instate an allowable of at least 880 MCFD for the subject well.

If you have any questions, please advise.

Sincerely,

READ & STEVENS, INC.

John C. Maxey Petroleum Engineer

JCM/sr/jcmltrs/ocdha11.wpd

Enclosure xc: File, Partners



MAE\_DM UF\_\_\_\_\_ PHONE 505 622-3770 FAX: 505 622-8643

## State of New Mexico E y, Minerals and Natural Resources Departme

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Form C-122-C Revised 4-1-91

## **OIL CONSERVATION DIVISION**

2040 Pacheco St. Santa Fe, NM 87505

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-	•		DELIVI	ERABILIT	Y TEST	REPOR	т	4	S. Mar	<b>▲</b>	22112822	
Typo Test	Ini	tiol [	Annual		Special	Test 10-	-18-9	7		1997	303	
Company Decide C	lon .	Corporation				RECEIVED						
Read & S	<u>PM Gas C</u>							<u> </u>				
Buffalo	OTTOW	act TD   Elevation   Farm'ur, Lea						H9.				
Completion 4-19-97		Total Depth	Total Depth 9050!					3492' GR		Harris Federal		
Cag. Size			d Set At		Periorationst				Well No	•	•	
51" Tbg. Size	17#	4.892	9040 '		From 8654 To Perforations:				11 Unii	Sec.	Twp. Ilge.	
2-3/8"	-3/8" 4.6#		1.995 8546'		From To				N	26	15S 27E	
Type Well-Sind Single		Packer Set At				County						
Producing Thru	Re	servoir Temp. *F	Mean Annu	al Temp. °F	8546' Temp. °F Baro. Press Pa					Chaves Slote		
Tbg.					13.2		S Provet		New Mexi			
L 8666	н 8666	0.634	* co <sub>2</sub> 0.3	* N <sub>2</sub> 1.2(	,	H <sub>2</sub> S	014	¥ #f	Mett	er rwn	Тсрв	
		FLOW DATA				ING DAT	A	C/	ASING	DATA	Duration	
NO. Line	Choke X Orific		Dill.	Temp.	Press. p.s.l.q	· · ·	mp. F	Pre p. s.		Temp. *F	ol Flow	
Size Si Total	Size Flow Met			63.8	628							
160								<del></del>	24 Hours			
Coefficient			Pressur	-	r Temp. octor	Gravity Factor		Super Compress.		Ro	Rate of Flow	
		h <sub>w</sub> P <sub>m</sub>	Pm		FL	Fq	Fg Fe				Q, McId	
1.		1,448.3										
NO. Pr Temp. R. Tr Z Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mci/bbl. A.P.I. Gravity of Liquid Hydrocarbons <u>Dry</u>												
0.405	ecilic Gravit	vity Separator Gas <u>0.634</u>				XXXXXXXXXX						
$P_d = \frac{0.5.2}{4.00}$	ecific Gravity itical Pressu	vily Flowing Fluid <u>XXXXX</u>										
P. 641.2	llical Temper	200										
				Pl	<sup>1</sup>	>t <sup>2</sup>	• • • • • • •					
Na Pi	Pi	$P_c^2 P$	2 P.	,   1	Pw <sup>2</sup>	Pc <sup>2</sup> - Pw	,2	P.		P.2	$P_{1}^{2} - P_{1}^{2}$	
271.2	73.	5 337.6	371.	1 13	57.7	273.4						
$\begin{bmatrix} P_c^2 - P_d^2 \end{bmatrix} \begin{bmatrix} 407.1 \end{bmatrix} = 1 (000)$												
$\left[\frac{P_{c}^{2}-P_{d}^{2}}{P_{c}^{2}-P_{w}^{2}}\right] = \left[\frac{407.1}{273.4}\right] = \underline{1.4890}$ $Log \left[\frac{P_{c}^{2}-P_{d}^{2}}{P_{c}^{2}-P_{w}^{2}}\right] = \underline{0.1729}$												
-		-			· •	د.						
$\frac{P_{c}^{2} - P_{d}^{2}}{P_{c}^{2} - P_{w}^{2}}$	- 1	$P_{c^2 - P_{d^2}} = 0.0865$										
$P_c^2 - P_w^2$				n Log $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right] = \frac{0.0865}{1000000000000000000000000000000000000$								
	-				••	تى						
Deliv, = Q	$\frac{P_c^2 - P_d^2}{P_c^2 - P_d^2}$											
- •	$P_e^2 - P_w^2$			i	Divisio	n						
Deliv. 1,767 Metd					Company Read & Stevens, Inc.							
	<u>Multi Point Back Pressure Test</u>											
(Source of	(	Others		Tested by West-Test Inc.								