

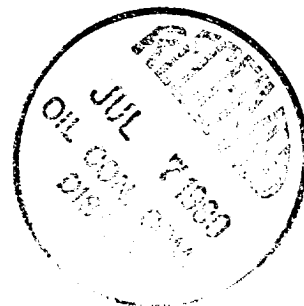


**Union Texas Petroleum Division**  
Suite 1010 Lincoln Tower  
1860 Lincoln Street  
Denver, Colorado 80295

July 3, 1980

New Mexico Oil Conservation Commission  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Attention: Mr. Frank Chavez



Re: Union Texas Petroleum  
Johnston Federal 11-Y  
T31N-R9W  
Section 7: SE/4 SW/4  
Blanco Pictured Cliffs Pool  
San Juan County, New Mexico

Dear Frank:

As we discussed on the telephone today, I have tabulated the various producing rates tested from the Pictured Cliffs and Fruitland. The designation (tbg), (csg) or (open) indicates whether the flow was through tubing, casing/tubing annulus, or through open casing. Most of the test flow periods were during the day only, with the well shut-in at night for safety.

The first three (3) days of flow through tubing of the Fruitland zone (October 20-22), if averaged and compared with the flow through tubing of the Pictured Cliffs when it was isolated below a packer (November 21-24), would seem to be a fair ratio of the relative deliverability of the two zones. The Fruitland averaged 478 MCFPD with 25 psi FTP. The Pictured Cliffs averaged 907 MCFPD with 60 psi FTP. Comparing the volumes would give a 2:1 ratio in favor of the Pictured Cliffs, with a similar result obtained if flowing tubing pressures are compared. Of course, all these tests were flared against atmospheric conditions rather than pipeline pressure.

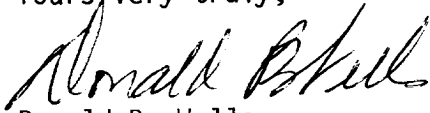
On the packer leakage test conducted in December, 1979, the Pictured Cliffs produced at the rate of 1572 MCFPD and the Fruitland at 604 MCFPD, or a ratio of 2.5:1.

Considering the greater lateral extent of the Pictured Cliffs, higher flowing pressure and flow rate, I suggest that a reasonable allocation of

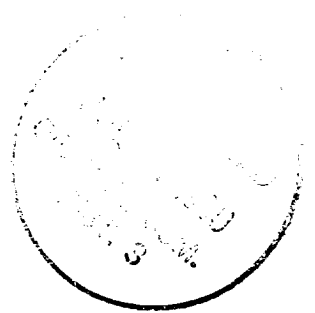
New Mexico Oil Conservation Commission  
Mr. Frank Chavez  
July 3, 1980  
Page 2

eighty per cent (80%) Pictured Cliffs and twenty per cent (20%) Fruitland  
be applied to the total production from the Johnston Federal 11-Y.

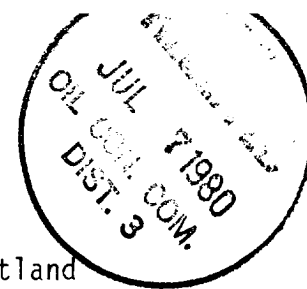
Yours very truly,

  
Donald B. Wells

DBW/pam  
attachment



## JOHNSTON FEDERAL 11-Y



## Pictured Cliffs

## Fruitland

Rate MCFPD	Press psi	Flowing through	Date 1979	Combined Rate	Rate MCFPD	Press psi	Flowing through
1385	100	open	10/14				
1385		open	10/15				
			10/16		1385		open
			10/20		581	35	tbg
			10/21		457	25	tbg
			10/22		396	20	tbg

## Pulled RBP separating zones

10/23	1400	open
10/24	Squeezed perfs 3304-3275	

## After drillout while cleaning up both zones together

50	tbg	10/29	766	50	tbg
40	tbg	10/30	647	40	tbg
54	tbg	10/31	816	54	tbg
60	tbg	11/1	890	60	tbg

## Pulled tbg and rerun with pkr set at 3424

1014	70	tbg	11/21	
841	56	tbg	11/23	
866	58	tbg	11/24	TSTM 2' flare

## Ran BP &amp; pkr - straddle Fruitland 3423 - 3241

		11/26	173	2	tbg
Acidized Fruitland		11/27	705	45	tbg
		11/28	853	57	tbg
		11/28	680	43	csg
		11/29	767	50	csg

## Set production pkr @ 3420

989	68	tbg	11/30	235	7	csg
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