



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**  
Cabinet Secretary

IPI-217

December 7, 2003

**Lori Wrotenbery**

Director

Oil Conservation Division

Hudson and Hudson  
616 Texas St  
Fort Worth, Texas 76102-4612

Attn: Randal Hudson

**RECEIVED**

DEC 10 2003

OCD-ARTESIA

**Re: Injection Pressure Increase  
Puckett Federal "A" Well No. 8  
API: 30-015-05384  
WFX-761 R-2239 Case No. 2536  
1,980 FSL, 660 FWL, Sec 24, T17S, R31E, NMPM  
Eddy County, New Mexico**

Dear Mr. Hudson:

The New Mexico Oil Conservation Division received your Step Rate Test report in July 2003, without any cover letter with address, names, or explanation. The Division assumes this test was run in order to increase the allowable surface injection pressure on this disposal well. After reviewing test results, we feel an increase in injection pressure is justified at this time.

With size and type of tubing remaining 2 3/8 inch, you are authorized to increase the surface injection pressure to a maximum of 1,050 psi.

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

*Lori Wrotenbery* (wrt)  
Lori Wrotenbery  
Director

cc: Oil Conservation Division Artesia  
Files: WFX-761; Case No. 2536; UIC

12/2/03 ~~IX-211~~ PWV 0334147806 5/12/00  
 Federal 30-015-05384 1980 FSL 660 FWL ~~36-1865~~ WFX-761  
 Com 253/R-2239

|                                   |              |                                    |  |
|-----------------------------------|--------------|------------------------------------|--|
| Company: Hudson & Hudson          |              | Company Representative: John Smith |  |
| Lease: Puckett A #8               |              | Test Date & Time: 5/16/03          |  |
| State: NM                         | County: Eddy | Elevation:                         |  |
| Formation: Maljamar Grayburg      | Unit:        | Section: 24                        |  |
| Township: 17S                     | Range: 31E   |                                    |  |
| Test Crew: David Bump             |              |                                    |  |
| TD@                               |              | PBTD@ 3894'                        |  |
| Packer Set @: 3234'               |              | FL                                 |  |
| Casing Size: 4 1/2 J55            |              | Casing Wt.:                        |  |
| Casing Dia.:                      |              | Casing Set @: 3287' FL             |  |
| Tubing Size: 2 3/8 plastic coated |              | Tubing Wt.:                        |  |
| Tubing Dia.:                      |              | Tubing Set @: 3234' FL             |  |
| Perforations From: 3287           |              | To: 3894'                          |  |

| Time | EIapse Time | Tubing Pressure | Tubing Pressure Less Friction | BHP | Rate BPD |
|------|-------------|-----------------|-------------------------------|-----|----------|
| 2:20 |             | 490             |                               |     | 0        |
| 2:25 |             | 615             |                               |     | 60       |
| 2:30 |             | 630             |                               |     | 60       |
| 2:35 | 15          | 635             |                               |     | 60       |
| 2:40 |             | 760             |                               |     | 140      |
| 2:45 |             | 775             |                               |     | 140      |
| 2:50 | 30          | 780             |                               |     | 140      |
| 2:55 |             | 885             |                               |     | 210      |
| 3:00 |             | 895             |                               |     | 210      |
| 3:05 | 45          | 900             |                               |     | 210      |
| 3:10 |             | 1190            |                               |     | 310      |
| 3:15 |             | 1100            |                               |     | 310      |
| 3:20 | 1           | 1110            |                               |     | 310      |
| 3:25 |             | 1140            |                               |     | 410      |
| 3:30 |             | 1140            |                               |     | 410      |
| 3:35 | 1:15        | 1140            |                               |     | 410      |
| 3:40 |             | 1170            |                               |     | 510      |
| 3:45 |             | 1170            |                               |     | 510      |
| 3:50 | 1:30        | 1170            |                               |     | 510      |
| 3:55 |             | 1220            |                               |     | 630      |
| 4:00 |             | 1220            |                               |     | 630      |
| 4:05 | 1:45        | 1220            |                               |     | 630      |
|      |             |                 |                               |     |          |
|      |             |                 |                               |     |          |
|      |             |                 |                               |     |          |
|      |             |                 |                               |     |          |

Test Conducted By: David Bump/Signal Wireline & Testing

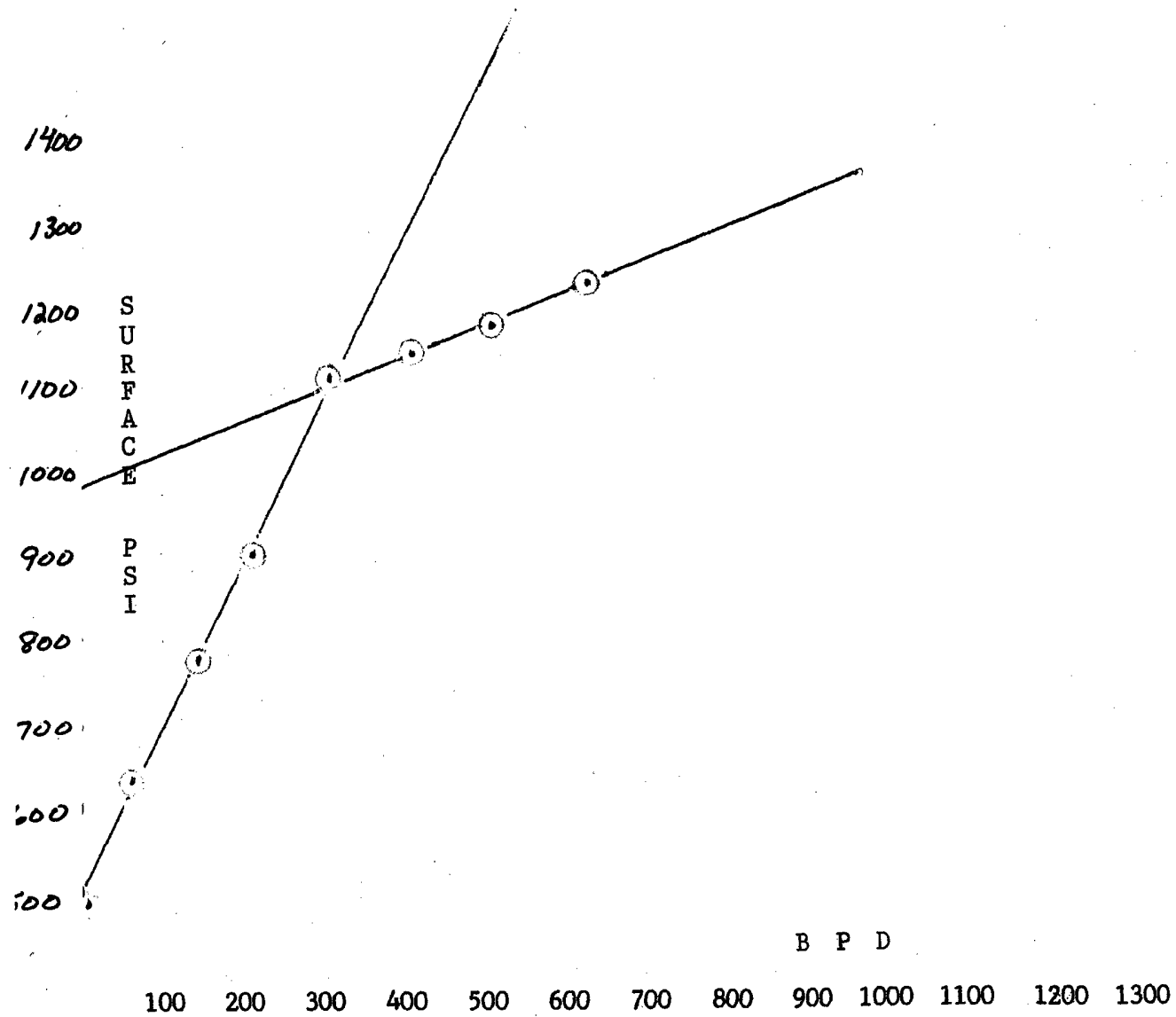
Toll Free  
866-766-SWAT

Signal Wireline And Testing

KANDAL HUDSON Office  
616 TEXAS St. 505-392-2048  
FORT WORTH, TX  
76102-4612

817-336-7109

Hudson & Hudson  
Puckett A #8  
5/16/03



Parting point appears  
to be 1100 PSI