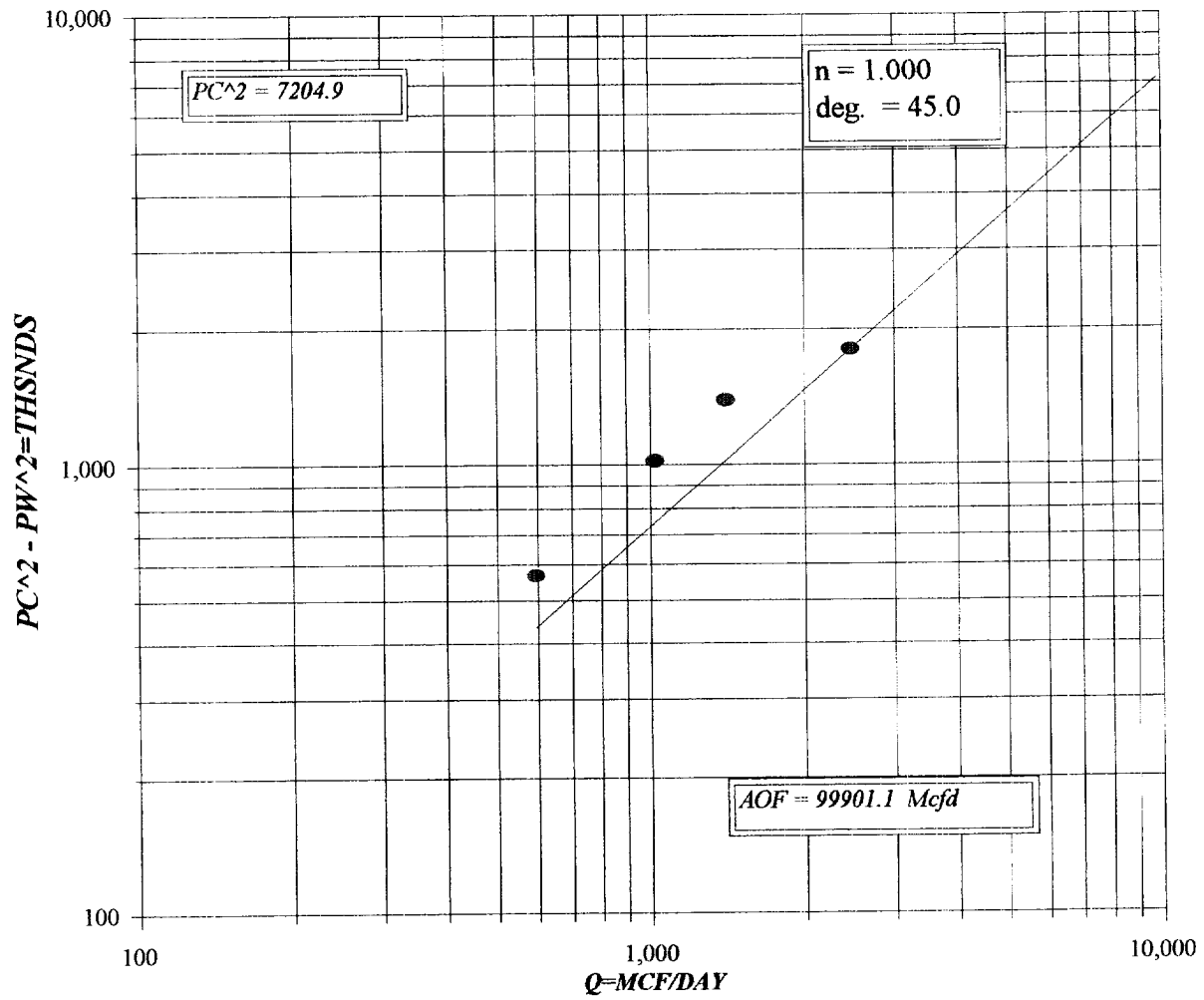


**GRUY PET. MANAGEMENT CO.**  
**PENNZOIL FED COM #2**





## Laboratory Services, Inc.

4016 Fiesta Drive  
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline  
P. O. Box 791  
Hobbs, New Mexico 88241

SAMPLE:  
IDENTIFICATION: Pennzoil Fed. Com. #2  
COMPANY: Gruy Petroleum  
LEASE:  
PLANT:

SAMPLE DATA: DATE SAMPLED: 12/4/02 11:30 am  
ANALYSIS DATE: 12/4/02  
PRESSURE - PSIG 480  
SAMPLE TEMP. °F 62  
ATMOS. TEMP. °F

GAS (XX) LIQUID ( )  
SAMPLED BY: Richard Hicks  
ANALYSIS BY: Vickie Biggs

REMARKS: Sample taken @ the meter run.

### COMPONENT ANALYSIS

| COMPONENT              | MOL<br>PERCENT | GPM   |
|------------------------|----------------|-------|
| Hydrogen Sulfide (H2S) |                |       |
| Nitrogen (N2)          | 0.202          |       |
| Carbon Dioxide (CO2)   | 2.015          |       |
| Methane (C1)           | 95.495         |       |
| Ethane (C2)            | 1.630          | 0.435 |
| Propane (C3)           | 0.249          | 0.068 |
| I-Butane (IC4)         | 0.046          | 0.015 |
| N-Butane (NC4)         | 0.042          | 0.013 |
| I-Pentane (IC5)        | 0.020          | 0.007 |
| N-Pentane (NC5)        | 0.020          | 0.007 |
| Hexane Plus (C6+)      | 0.281          | 0.122 |
|                        | 100.000        | 0.667 |

BTU/CU.FT. - DRY 1017  
AT 14.650 DRY 1014  
AT 14.650 WET 997  
AT 14.73 DRY 1020  
AT 14.73 WET 1002

MOLECULAR WT. 17.2006

SPECIFIC GRAVITY -  
CALCULATED 0.593  
MEASURED

|                                  |  |                          |  |                      |  |                 |  |              |  |        |  |
|----------------------------------|--|--------------------------|--|----------------------|--|-----------------|--|--------------|--|--------|--|
| COMPANY : GRUY PET MANAGEMENT CO |  | LEASE : PENNZOIL FED COM |  | WELL NO. : 2         |  | Pc = 2684.2     |  | Pc2 = 7204.9 |  | *      |  |
| UNIT : 11442                     |  | SECTION : 15             |  | TOWNSHIP : 24S       |  | P12 = 6621.4    |  | Pw = 2575.9  |  | *      |  |
| L : 11442                        |  | H : 11442                |  | L/H : 1              |  | G/GMIX : 0.593  |  | 6111.8       |  | 2480.4 |  |
| %CO2 : 2.015                     |  | %N2 : 0.202              |  | H2S : 0.018183       |  | DATE : 12/4/02  |  | 5737.0       |  | 2411.0 |  |
| d : 1.995                        |  | Fr : 0.018183            |  | GH : 8197.0          |  | RANGE : 26E     |  | 5167.4       |  | 2323.9 |  |
| VOL 1 : 597                      |  | PSIA 1 : 2573.2          |  | RESV TEMP : 188.0    |  | Pc2-Pw2 = 569.9 |  | Fw2 = 6635.0 |  | *      |  |
| VOL 2 : 1030                     |  | PSIA 2 : 2472.2          |  | SHUT-IN PRE : 2684.2 |  | 1052.7          |  | 6152.2       |  | *      |  |
| VOL 3 : 1412                     |  | PSIA 3 : 2395.2          |  |                      |  | 1392.2          |  | 5812.7       |  | *      |  |
| VOL 4 : 2480                     |  | PSIA 4 : 2273.2          |  |                      |  | 1804.6          |  | 5400.3       |  | *      |  |
| PCR : 679                        |  | TCR : 348                |  |                      |  | n = 1000        |  |              |  | *      |  |
| Pc2/(Pc2-Pw2) =                  |  |                          |  |                      |  | 12.643          |  |              |  | *      |  |
| 6.844                            |  |                          |  |                      |  | 5.175           |  |              |  | *      |  |
| 3.992                            |  |                          |  |                      |  |                 |  |              |  | *      |  |
| [Pc2/(Pc2-Pw2)]n =               |  |                          |  |                      |  | 12.643          |  |              |  | *      |  |
| 6.844                            |  |                          |  |                      |  | 5.175           |  |              |  | *      |  |
| 3.992                            |  |                          |  |                      |  |                 |  |              |  | *      |  |
| AOF = Q                          |  |                          |  |                      |  | 7.548           |  |              |  | *      |  |
| 7.050                            |  |                          |  |                      |  | 7.308           |  |              |  | *      |  |
| 9.901                            |  |                          |  |                      |  |                 |  |              |  | *      |  |
| FORM C122-D                      |  |                          |  |                      |  |                 |  |              |  | *      |  |

| LINE          | RATE 1    | RATE 2    | RATE 3    | RATE 4    |
|---------------|-----------|-----------|-----------|-----------|
|               | 1ST       | 2ND       | 1ST       | 2ND       |
| 1 QM          | 0.597     | 0.597     | 1.030     | 1.030     |
| 2 TW          | 534       | 534       | 534       | 534       |
| 3 Ts          | 648.0     | 648.0     | 648.0     | 648.0     |
| 4 T           | 591.0     | 591.0     | 591.0     | 591.0     |
| PR (est)      | 3.79      | 3.64      | 3.53      | 3.35      |
| 5 Z(est)      | 0.842     | 0.852     | 0.842     | 0.841     |
| 6 TZ          | 497.8     | 503.5     | 497.2     | 500.4     |
| 7 GH/TZ       | 16.466    | 16.282    | 16.482    | 16.382    |
| 8 eS          | 1.854     | 1.841     | 1.855     | 1.848     |
| 9 I-e-S       | 0.461     | 0.457     | 0.461     | 0.459     |
| 10 Pt         | 2573.2    | 2573.2    | 2472.2    | 2395.2    |
| 11 P12 /1000  | 6621.4    | 6621.4    | 6111.8    | 5737.0    |
| 12 Fr         | 0.018183  | 0.018183  | 0.018183  | 0.018183  |
| 13 Fc=FrTZ    | 9.052     | 9.154     | 9.043     | 9.120     |
| 14 FcQm       | 5.40      | 5.47      | 9.31      | 9.39      |
| 15 L/H(FcQm)2 | 29.2      | 29.9      | 86.8      | 88.2      |
| 16 Fw         | 13.452879 | 13.648038 | 39.997265 | 40.430567 |
| 17 Pw2        | 6634.8    | 6635.0    | 6151.8    | 6152.2    |
| 18 Ps2        | 12302.7   | 12218.1   | 11413.5   | 11355.2   |
| 19 Ps         | 3507.5    | 3495.4    | 3378.4    | 3369.7    |
| 20 P          | 3040.4    | 3034.3    | 2925.3    | 2921.0    |
| 21 Pr         | 4.48      | 4.47      | 4.31      | 4.30      |
| 22 Tr         | 1.70      | 1.70      | 1.70      | 1.70      |
| 23 Z          | 0.852     | 0.852     | 0.849     | 0.847     |

OPERATOR: GRUY PETROLEUM  
WELL/LEASE: PENNZOIL FED. COM. 2  
COUNTY: EDDY

080-0010

STATE OF NEW MEXICO  
DEVIATION REPORT

|        |       |
|--------|-------|
| 236    | 1     |
| 445    | 1     |
| 806    | 1 3/4 |
| 1,145  | 2 1/2 |
| 1,272  | 2     |
| 1,466  | 2 3/4 |
| 1,563  | 3 3/4 |
| 1,686  | 3     |
| 1,789  | 2     |
| 1,885  | 1 3/4 |
| 2,165  | 1 1/4 |
| 2,640  | 3/4   |
| 3,225  | 1/4   |
| 3,699  | 1/2   |
| 4,175  | 1/4   |
| 4,652  | 1/2   |
| 5,130  | 3/4   |
| 5,605  | 1/2   |
| 6,084  | 1     |
| 6,562  | 1/2   |
| 7,040  | 3/4   |
| 7,514  | 1 1/4 |
| 7,979  | 1 1/2 |
| 8,454  | 2     |
| 8,933  | 1     |
| 9,433  | 3/4   |
| 9,917  | 1/4   |
| 10,394 | 1/2   |
| 10,562 | 1     |
| 11,037 | 3/4   |
| 11,514 | 1/2   |
| 11,950 | 1     |



By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 15th day of October, 2002, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges  
Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

