

# WORK SHEET FOR STAINLESS STEEL CALCULATION

(SUBSURFACE) P (P<sub>f</sub> & P<sub>s</sub>)  
(SURFACE) P (P<sub>f</sub> & P<sub>s</sub>)

Form 2-122E  
Adopted 2-1-65

COMPANY Stone Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit 16 Section 255 Township 34E Range 34E

L 15256 H 15256 LH 1.000 GMA .5822 % CO<sub>2</sub> .341 % N<sub>2</sub> .705 % H<sub>2</sub>S

\*  $d = 2.506 \sqrt{F_r \cdot 1009796} \cdot Q_m$  16.52 M<sup>2</sup> cfd (L/H) (F<sub>r</sub>Q<sub>m</sub>)<sup>2</sup> .0002419 P<sub>CF</sub> 672 T<sub>CF</sub> 350

TABLE 18 B 1

\* Effective Diameter of Flow String

| LINE | ITEM                                             | SOURCE                  | 1        | 2        | 3        | 4        | 5        | 6 | 7 | 8 | 9 | 10 |
|------|--------------------------------------------------|-------------------------|----------|----------|----------|----------|----------|---|---|---|---|----|
| 1    | H                                                |                         | 0        | 76.28    |          | 152.56   |          |   |   |   |   |    |
| 2    | GH                                               |                         | 0        | 44.41    |          | 88.82    |          |   |   |   |   |    |
| 3    | 37.5GH                                           |                         | 0        | 166.538  |          | 333.076  |          |   |   |   |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                 |                         | 7186.2   | 8137.8   | 8106.1   | 9013.9   | 8956.2   |   |   |   |   |    |
| 5    | P <sub>r</sub>                                   |                         | 10.69    | 12.11    | 12.06    | 13.41    | 13.33    |   |   |   |   |    |
| 6    | T                                                |                         | 534      | 610.5    | 610.5    | 687      | 687      |   |   |   |   |    |
| 7    | T <sub>r</sub>                                   |                         | 1.53     | 1.74     | 1.74     | 1.96     | 1.96     |   |   |   |   |    |
| 8    | Z                                                |                         | 1.180    | 1.263    | 1.260    | 1.313    | 1.309    |   |   |   |   |    |
| 9    | P/Z                                              | 4-8                     | 6090.0   | 6443.2   | 6429.4   | 6865.1   | 6842.0   |   |   |   |   |    |
| 10   | P/TZ                                             | 9-6                     | 11.4045  | 10.5540  | 10.5314  | 9.9929   | 9.9592   |   |   |   |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000                        | (10) <sup>2</sup> /1000 | 1.30062  | 1.11386  | 1.10910  | 1.099858 | 1.099186 |   |   |   |   |    |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup> |                         | .0002619 | .0002619 | .0002619 | .0002619 | .0002619 |   |   |   |   |    |
| 13   |                                                  | 11-12                   | 1.30324  | 1.11648  | 1.11172  | 1.00120  | 1.099448 |   |   |   |   |    |
| 14   | I <sub>n</sub>                                   | 10-13                   | 87.509   | 94.529   | 94.731   | 99.809   | 100.145  |   |   |   |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>               |                         |          | 952      | 915      | 913      | 855      |   |   |   |   |    |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>               |                         |          | 182.037  | 182.239  | 194.540  | 194.876  |   |   |   |   |    |
| 17   | M x N                                            | 15 x 16                 |          |          | 166.723  |          | 166.640  |   |   |   |   |    |
| 18   | Σ (M x N)                                        | Σ 17                    |          |          | 166.353  |          |          |   |   |   |   |    |

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WORK SHEET FOR STAINLESS STEEL CALCULATION

COMPANY Stone Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit 16 Section 25S Township 34E

L 15256 H 15256 LH 1.000 GMA .5822 % CO<sub>2</sub> .341 % N<sub>2</sub> .705 % H<sub>2</sub>S

\*  $d = 2.506 \sqrt{F_r / 1000} = 2.230$  M<sup>2</sup> cfd (L/H) (F<sub>r</sub> Q<sub>m</sub>)<sup>2</sup> P<sub>cr</sub> 672 T<sub>cr</sub> 350

\* Effective Diameter of Flow String

| LINE | ITEM                                               | SOURCE | 1       | 2       | 3       | 4       | 5       | 6 | 7 | 8 | 9 | 10 |
|------|----------------------------------------------------|--------|---------|---------|---------|---------|---------|---|---|---|---|----|
| 1    | H                                                  |        | 0       | 7628    |         | 15256   |         |   |   |   |   |    |
| 2    | GH                                                 |        | 0       | 4441    |         | 8882    |         |   |   |   |   |    |
| 3    | 37.5GH                                             |        | 0       | 166538  |         | 333076  |         |   |   |   |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                   |        | 6918.2  | 7859.0  | 7823.2  | 8726.1  | 8667.5  |   |   |   |   |    |
| 5    | P <sub>r</sub>                                     |        | 10.29   | 11.69   | 11.64   | 12.99   | 12.90   |   |   |   |   |    |
| 6    | T                                                  |        | 534     | 610.5   | 610.5   | 687     | 687     |   |   |   |   |    |
| 7    | T <sub>r</sub>                                     |        | 1.53    | 1.74    | 1.74    | 1.96    | 1.96    |   |   |   |   |    |
| 8    | Z                                                  |        | 1.151   | 1.235   | 1.232   | 1.293   | 1.289   |   |   |   |   |    |
| 9    | P/Z                                                | 4-8    | 6010.6  | 6363.6  | 6349.9  | 6748.8  | 6724.2  |   |   |   |   |    |
| 10   | P/TZ                                               | 9-6    | 11.2510 | 10.4235 | 10.4013 | 9.8235  | 9.7878  |   |   |   |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000 (10 <sup>2</sup> 2/1000) |        | 126693  | 108650  | 108186  | 96501   | 95801   |   |   |   |   |    |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup>   |        | .000477 | .000477 | .000477 | .000477 | .000477 |   |   |   |   |    |
| 13   |                                                    | 11+12  | 127170  | 109127  | 108663  | 1096729 | 1096279 |   |   |   |   |    |
| 14   | I <sub>n</sub>                                     | 10-13  | 88.510  | 95.517  | 95.720  | 101.296 | 101.661 |   |   |   |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>                 |        |         | 941     | 905     | 903     | 844     |   |   |   |   |    |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>                 |        |         | 184.027 | 184.230 | 197.016 | 197.381 |   |   |   |   |    |
| 17   | M x N                                              | 15x16  |         |         | 166721  |         | 166664  |   |   |   |   |    |
| 18   | Σ (M x N)                                          | Σ 17   |         |         | 166355  |         |         |   |   |   |   |    |

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COMPANY Stone Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit \_\_\_\_\_ Section 16 Township 25S Range 34E

L 15256 H 15256 LH 1.000 Gmix .5822 % CO<sub>2</sub> .341 % N<sub>2</sub> .705 % H<sub>2</sub>S \_\_\_\_\_  
 $\star d$  2.506 F<sub>r</sub> 1.00976 Q<sub>m</sub> 3.142 M<sup>2</sup> cld (LH) (F<sub>r</sub>Q<sub>m</sub>)<sup>2</sup> .00947 P<sub>CT</sub> 6.72 T<sub>CT</sub> 350

$\star$  Effective Diameter of Flow String

| LINE | ITEM                                               | SOURCE  | 1       | 2       | 3       | 4       | 5       | 6 | 7 | 8                       | 9 | 10 |
|------|----------------------------------------------------|---------|---------|---------|---------|---------|---------|---|---|-------------------------|---|----|
| 1    | H                                                  |         | 0       | 7628    |         | 15256   |         |   |   |                         |   |    |
| 2    | GH                                                 |         | 0       | 4441    |         | 8882    |         |   |   |                         |   |    |
| 3    | 37.5GH                                             |         | 0       | 166538  |         | 333076  |         |   |   |                         |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                   |         | 6418.2  | 7336.1  | 7301.2  | 8183.0  | 8124.7  |   |   |                         |   |    |
| 5    | P <sub>r</sub>                                     |         | 9.55    | 10.92   | 10.86   | 12.18   | 12.09   |   |   | P <sub>s</sub> = 8119.9 |   |    |
| 6    | T                                                  |         | 534     | 610.5   | 610.5   | 687     | 687     |   |   |                         |   |    |
| 7    | T <sub>r</sub>                                     |         | 1.53    | 1.74    | 1.74    | 1.96    | 1.96    |   |   |                         |   |    |
| 8    | Z                                                  |         | 1.099   | 1.187   | 1.183   | 1.253   | 1.248   |   |   |                         |   |    |
| 9    | P/Z                                                | 4-8     | 5840.0  | 6180.4  | 6171.8  | 6530.8  | 6510.1  |   |   |                         |   |    |
| 10   | P/TZ                                               | 9-6     | 10.9364 | 10.1234 | 10.1094 | 9.5062  | 9.4762  |   |   |                         |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000 (10 <sup>-2</sup> /1000) |         | 119605  | 102484  | 102200  | 90368   | 089798  |   |   |                         |   |    |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup>   |         | .000947 | .000947 | .000947 | .000947 | .000947 |   |   |                         |   |    |
| 13   |                                                    | 11 + 12 | 120552  | 103431  | 103148  | 107315  | 1090745 |   |   |                         |   |    |
| 14   | I <sub>n</sub>                                     | 10-13   | 90.719  | 97.876  | 98.009  | 104.103 | 104.426 |   |   |                         |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>                 |         |         | 918     | 883     | 882     | 823     |   |   |                         |   |    |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>                 |         |         | 188.595 | 188.728 | 202.112 | 202.435 |   |   |                         |   |    |
| 17   | M x N                                              | 15 x 16 |         |         | 166655  |         | 166686  |   |   |                         |   |    |
| 18   | Σ (M x N)                                          | Σ 17    |         |         | 166686  |         |         |   |   |                         |   |    |

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WORK SHEET FOR STAINLESS STEEL CALCULATION

(SUBSURFACE) P<sub>1</sub> (P<sub>1</sub> & P<sub>2</sub>)  
(SURFACE) (P<sub>2</sub> & P<sub>3</sub>)

Form 2-122E  
Adopted 3-1-65

COMPANY Stone Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84  
LOCATION: Unit 16 Section 25S Township 34E  
L 15256 H 15256 LH 1.000 G<sub>max</sub> .5822 % CO<sub>2</sub> .341 % N<sub>2</sub> .705 % H<sub>2</sub>S  
\* 2.506 F<sub>1</sub> .009796 Q<sub>m</sub> 4.235 M<sub>std</sub> (LH) (F<sub>1</sub> Q<sub>m</sub>)<sup>2</sup> .001713 P<sub>cr</sub> 672 T<sub>cr</sub> 350

\* Effective Diameter of Flow String

| LINE | ITEM                                             | SOURCE                          | 1       | 2       | 3       | 4       | 5       | 6 | 7 | 8 | 9 | 10 |
|------|--------------------------------------------------|---------------------------------|---------|---------|---------|---------|---------|---|---|---|---|----|
| 1    | H                                                |                                 | 0       | 7628    |         | 15256   |         |   |   |   |   |    |
| 2    | GH                                               |                                 | 0       | 4441    |         | 8882    |         |   |   |   |   |    |
| 3    | 37.5GH                                           |                                 | 0       | 166538  |         | 333076  |         |   |   |   |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                 |                                 | 5660.2  | 6540.1  | 6506.3  | 7350.4  | 7293.3  |   |   |   |   |    |
| 5    | P <sub>r</sub>                                   |                                 | 8.42    | 9.73    | 9.68    | 10.94   | 10.85   |   |   |   |   |    |
| 6    | T                                                |                                 | 534     | 610.5   | 610.5   | 687     | 687     |   |   |   |   |    |
| 7    | T <sub>r</sub>                                   |                                 | 1.53    | 1.74    | 1.74    | 1.96    | 1.96    |   |   |   |   |    |
| 8    | Z                                                |                                 | 1.019   | 1.115   | 1.112   | 1.190   | 1.185   |   |   |   |   |    |
| 9    | P/Z                                              | 4-8                             | 5554.7  | 5865.5  | 5851.0  | 6176.8  | 6154.7  |   |   |   |   |    |
| 10   | P/TZ                                             | 9-6                             | 10.4020 | 9.6078  | 9.5840  | 8.9909  | 8.9588  |   |   |   |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000                        | (10 <sup>2</sup> /1000)         | .108201 | .092309 | .091853 | .080837 | .080261 |   |   |   |   |    |
| 12   | L/H(F <sub>1</sub> Q <sub>m</sub> ) <sup>2</sup> |                                 | .001713 | .001713 | .001713 | .001713 | .001713 |   |   |   |   |    |
| 13   |                                                  | I <sub>1</sub> + I <sub>2</sub> | .109914 | .094032 | .093566 | .082550 | .081974 |   |   |   |   |    |
| 14   | I <sub>n</sub>                                   | I <sub>0</sub> -I <sub>3</sub>  | 9446.37 | 102186  | 102.431 | 108.915 | 109.289 |   |   |   |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>               |                                 |         | 880     | 846     | 844     | 787     |   |   |   |   |    |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>               |                                 |         | 196.823 | 197.068 | 211.346 | 211.720 |   |   |   |   |    |
| 17   | M x N                                            | I <sub>5</sub> x I <sub>6</sub> |         |         | 166.745 |         | 166.625 |   |   |   |   |    |
| 18   | Σ (M x N)                                        | Σ I <sub>7</sub>                |         |         | 166.331 |         |         |   |   |   |   |    |

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# WORK SHEET FOR STAINLESS CALCULATION

(SUBSURFACE) PRESSURE (P<sub>c</sub> & P<sub>w</sub>)

152

Form 5-1-22E  
Adopted 1-1-65

COMPANY Stone Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit 16 Section 16 Township 25S Range 34E

L 15256 H 15256 LH 1000 GAIN 5822 % CO<sub>2</sub> 341 % N<sub>2</sub> 705 % H<sub>2</sub>S

\* d 2506 F<sub>r</sub> 009796 Q<sub>m</sub> 0 M<sub>2</sub>cid (LH) (F<sub>r</sub>Q<sub>m</sub>)<sup>2</sup> 0 P<sub>CT</sub> 672 T<sub>CT</sub> 350

\* Effective Diameter of Flow String

| LINE | ITEM                                                | SOURCE    | 1       | 2       | 3       | 4       | 5       | 6       | 7 | 8                       | 9 | 10 |
|------|-----------------------------------------------------|-----------|---------|---------|---------|---------|---------|---------|---|-------------------------|---|----|
| 1    | H                                                   |           | 15256   | 7628    |         | 0       |         |         |   |                         |   |    |
| 2    | GH                                                  |           | 8882    | 4441    |         | 0       |         |         |   |                         |   |    |
| 3    | 37.SGH                                              |           | 333076  | 166538  |         | 0       |         |         |   |                         |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                    |           | 8949.8  | 8121.1  | 8096.9  | 7245.3  | 7184.6  | 7185.7  |   | P <sub>w</sub> = 7190.2 |   |    |
| 5    | P <sub>r</sub>                                      |           | 13.32   | 12.08   | 12.05   | 10.78   | 10.69   | 10.69   |   |                         |   |    |
| 6    | T                                                   |           | 687     | 610.5   | 610.5   | 534     | 534     | 534     |   |                         |   |    |
| 7    | T <sub>r</sub>                                      |           | 1.96    | 1.74    | 1.74    | 1.53    | 1.53    | 1.53    |   |                         |   |    |
| 8    | Z                                                   |           | 1.309   | 1.261   | 1.259   | 1.187   | 1.180   | 1.180   |   |                         |   |    |
| 9    | P/Z                                                 | 4-8       | 6837.1  | 6440.2  | 6431.3  | 6103.9  | 6088.6  | 6089.6  |   |                         |   |    |
| 10   | P/TZ                                                | 9-6       | 99522   | 10.5491 | 10.5344 | 11.4304 | 11.4020 | 11.4037 |   |                         |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000                           | 10-2/1000 |         |         |         |         |         |         |   |                         |   |    |
| 12   | L/(H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup> ) |           |         |         |         |         |         |         |   |                         |   |    |
| 13   |                                                     | I1 + I2   |         |         |         |         |         |         |   |                         |   |    |
| 14   | I <sub>n</sub>                                      | I0-I3     | 900.481 | 14.795  | 94.927  | 87.486  | 87.704  | 87.691  |   |                         |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>                  |           |         | 829     | 853     | 852     | 912     | 911     |   |                         |   |    |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>                  |           |         | 195.276 | 195.408 | 182.412 | 182.631 | 182.618 |   |                         |   |    |
| 17   | M x N                                               | I5 x I6   |         |         | 166650  |         |         | 166414  |   |                         |   |    |
| 18   | Σ (M x N)                                           | Σ I7      |         |         | 166426  |         |         |         |   |                         |   |    |

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COMPANY Secore Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit \_\_\_\_\_ Section 16 Township 25S Range 34E

| L     | H     | LH    | G min | % CO <sub>2</sub> | % N <sub>2</sub> | % H <sub>2</sub> S |
|-------|-------|-------|-------|-------------------|------------------|--------------------|
| 15256 | 15256 | 1.000 | 5822  | 341               | 705              |                    |

|         |       |       |   |             |                     |   |          |     |          |     |
|---------|-------|-------|---|-------------|---------------------|---|----------|-----|----------|-----|
| * 2.506 | $F_r$ | $Q_m$ | 0 | $M^2_{cfd}$ | $(L/H) (F_r Q_m)^2$ | 0 | $P_{cr}$ | 672 | $T_{cr}$ | 350 |
|---------|-------|-------|---|-------------|---------------------|---|----------|-----|----------|-----|

### ★ Effective Diameter of Flow String

| LINE | ITEM                                  | SOURCE                          | 1       | 2       | 3       | 4       | 5       | 6       | 7 | 8                       | 9 | 10 |
|------|---------------------------------------|---------------------------------|---------|---------|---------|---------|---------|---------|---|-------------------------|---|----|
| 1    | H                                     |                                 | 15256   | 7628    |         | 0       |         |         |   |                         |   |    |
| 2    | GH                                    |                                 | 8882    | 4441    |         | 0       |         |         |   |                         |   |    |
| 3    | 37.5GH                                |                                 | 333076  | 166538  |         | 0       |         |         |   |                         |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>      |                                 | 866619  | 7846.8  | 7821.8  | 6982.4  | 6920.9  | 6922.2  |   | P <sub>w</sub> = 6926.1 |   |    |
| 5    | P <sub>r</sub>                        |                                 | 12.89   | 11.68   | 11.64   | 10.39   | 10.30   | 10.30   |   |                         |   |    |
| 6    | T                                     |                                 | 687     | 610.5   | 610.5   | 534     | 534     | 534     |   |                         |   |    |
| 7    | T <sub>r</sub>                        |                                 | 1.96    | 1.74    | 1.74    | 1.53    | 1.53    | 1.53    |   |                         |   |    |
| 8    | Z                                     |                                 | 1.288   | 1.235   | 1.232   | 1.159   | 1.152   | 1.152   |   |                         |   |    |
| 9    | P/Z                                   | 4÷8                             | 6725.1  | 6353.7  | 6348.9  | 6024.5  | 6007.8  | 6008.8  |   |                         |   |    |
| 10   | P/TZ                                  | 9÷6                             | 9.7891  | 10.4073 | 10.3995 | 11.2818 | 11.2505 | 11.2525 |   |                         |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000             | (10 <sup>2</sup> /1000)         |         |         |         |         |         |         |   |                         |   |    |
| 12   | L/(H(FQ <sub>m</sub> )) <sup>2</sup>  |                                 |         |         |         |         |         |         |   |                         |   |    |
| 13   |                                       | I <sub>1</sub> + I <sub>2</sub> |         |         |         |         |         |         |   |                         |   |    |
| 14   | I <sub>n</sub>                        | I <sub>0</sub> ÷ I <sub>3</sub> | 102.155 | 96.086  | 96.159  | 88.639  | 88.885  | 88.869  |   |                         |   |    |
| 15   | M = P <sub>n</sub> - P <sub>n-1</sub> |                                 |         | 815     | 840     | 839     | 901     | 900     |   |                         |   |    |
| 16   | N = I <sub>n</sub> + I <sub>n-1</sub> |                                 |         | 198.241 | 198.314 | 184.797 | 185.043 | 185.028 |   |                         |   |    |
| 17   | M × N                                 | I <sub>5</sub> × I <sub>6</sub> |         |         | 166599  |         |         | 166463  |   |                         |   |    |
| 18   | Σ (M × N)                             | Σ I <sub>7</sub>                |         |         | 166472  |         |         |         |   |                         |   |    |

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# WORK SHEET FOR STRIKE CALCULATION

(SUBSURFACE)  
(SURFACE)

PRESSURE  
(P<sub>c</sub> & P<sub>w</sub>)

31d

Form 2-1-22E  
Adopted 2-1-65

COMPANY Stone Petroleum LEASE Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit 16 Section 255 Township 34E Range 34E

L 15256 H 15256 LH 1000 Gm 5822 % CO<sub>2</sub> 341 % N<sub>2</sub> 705 % H<sub>2</sub>S

\* d 2506 F<sub>r</sub> 009796 Q<sub>m</sub> 0 M<sub>2</sub> cld (LH) (F<sub>r</sub> Q<sub>m</sub>)<sup>2</sup> 0 P<sub>CT</sub> 622 T<sub>CT</sub> 350

\* Effective Diameter of Flow String

TABLE 15 B X

TABLE 15 B X

| LINE | ITEM                                             | SOURCE                  | 1       | 2       | 3       | 4       | 5       | 6       | 7 | 8 | 9 | 10 |
|------|--------------------------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---|---|---|----|
| 1    | H                                                |                         | 15256   | 7628    |         | 0       |         |         |   |   |   |    |
| 2    | GH                                               |                         | 8882    | 4441    |         | 0       |         |         |   |   |   |    |
| 3    | 37.SGH                                           |                         | 333076  | 166538  |         | 0       |         |         |   |   |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                 |                         | 8119.9  | 7331.3  | 7305.3  | 6491.5  | 6428.9  | 6430.6  |   |   |   |    |
| 5    | P <sub>r</sub>                                   |                         | 12.08   | 10.91   | 10.87   | 9.66    | 9.57    | 9.57    |   |   |   |    |
| 6    | T                                                |                         | 687     | 610.5   | 610.5   | 534     | 534     | 534     |   |   |   |    |
| 7    | T <sub>r</sub>                                   |                         | 1.96    | 1.74    | 1.74    | 1.53    | 1.53    | 1.53    |   |   |   |    |
| 8    | Z                                                |                         | 1.248   | 1.187   | 1.184   | 1.106   | 1.100   | 1.100   |   |   |   |    |
| 9    | P/Z                                              | 4-8                     | 6506.3  | 6176.3  | 6169.9  | 5869.3  | 5844.4  | 5846.0  |   |   |   |    |
| 10   | P/TZ                                             | 9-6                     | 94706   | 101170  | 1011065 | 109912  | 109450  | 109476  |   |   |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000                        | (10 <sup>2</sup> /1000) |         |         |         |         |         |         |   |   |   |    |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup> |                         |         |         |         |         |         |         |   |   |   |    |
| 13   |                                                  | I1 + I2                 |         |         |         |         |         |         |   |   |   |    |
| 14   | I <sub>n</sub>                                   | I0-I3                   | 105.589 | 98.845  | 98.947  | 90.982  | 91.369  | 91.344  |   |   |   |    |
| 15   | M = P <sub>n</sub> - P <sub>n-1</sub>            |                         |         | 789     | 815     | 814     | 876     | 875     |   |   |   |    |
| 16   | N = I <sub>n</sub> + I <sub>n-1</sub>            |                         |         | 204.435 | 204.536 | 189.928 | 190.316 | 190.290 |   |   |   |    |
| 17   | M x N                                            | I5 x I6                 |         |         | 166621  |         |         | 166433  |   |   |   |    |
| 18   | Σ (M x N)                                        | Σ I7                    |         |         | 166455  |         |         |         |   |   |   |    |

P<sub>w</sub> = 6434.1

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# WORK SHEET FOR STAINLESS STEEL CALCULATION

(SUBSURFACE) P<sub>1</sub> (SURFACE) P<sub>2</sub> (P<sub>c</sub> & P<sub>w</sub>)

Form 5-125E  
Adopted 1-1-65

COMPANY Stone Petroleum Lease Javelina Basin WELL NO. Unit #2 DATE 3/26/84

LOCATION: Unit 16 Section 16 Township 25S Range 34E

L 15256 H 15256 LH 1000 Gma 5822 %CO<sub>2</sub> 341 %N<sub>2</sub> 265 %H<sub>2</sub>S  
 \* d 2506 F<sub>r</sub> 009796 Q<sub>m</sub> 0 M<sub>2</sub>clid (L/H) (F<sub>r</sub>Q<sub>m</sub>)<sup>2</sup> 0 P<sub>cr</sub> 672 T<sub>cr</sub> 350

Effective Diameter of Flow String

| LINE | ITEM                                             | SOURCE    | 1       | 2       | 3       | 4       | 5       | 6       | 7 | 8 | 9 | 10 |
|------|--------------------------------------------------|-----------|---------|---------|---------|---------|---------|---------|---|---|---|----|
| 1    | H                                                |           | 15256   | 7628    |         | 0       |         |         |   |   |   |    |
| 2    | GH                                               |           | 8882    | 4441    |         | 0       |         |         |   |   |   |    |
| 3    | 37.5GH                                           |           | 333076  | 166538  |         | 0       |         |         |   |   |   |    |
| 4    | P <sub>c</sub> or P <sub>n</sub>                 |           | 7288.5  | 6544.3  | 6512.1  | 5747.5  | 5684.4  | 5686.5  |   |   |   |    |
| 5    | P <sub>r</sub>                                   |           | 10.85   | 9.74    | 9.70    | 8.55    | 8.46    | 8.46    |   |   |   |    |
| 6    | T                                                |           | 687     | 610.5   | 610.5   | 534     | 534     | 534     |   |   |   |    |
| 7    | T <sub>r</sub>                                   |           | 1.96    | 1.74    | 1.74    | 1.53    | 1.53    | 1.53    |   |   |   |    |
| 8    | Z                                                |           | 1.187   | 1.115   | 1.113   | 1.028   | 1.022   | 1.022   |   |   |   |    |
| 9    | P/Z                                              | 4-8       | 6140.3  | 5869.3  | 5855.5  | 5591.0  | 5562.1  | 5564.1  |   |   |   |    |
| 10   | P/TZ                                             | 9-6       | 8.9378  | 9.6139  | 9.5913  | 10.4700 | 10.4159 | 10.4197 |   |   |   |    |
| 11   | (P/TZ) <sup>2</sup> /1000                        | 10-2/1000 |         |         |         |         |         |         |   |   |   |    |
| 12   | L/H(F <sub>r</sub> Q <sub>m</sub> ) <sup>2</sup> |           |         |         |         |         |         |         |   |   |   |    |
| 13   |                                                  | 11+12     |         |         |         |         |         |         |   |   |   |    |
| 14   | I <sub>n</sub>                                   | 10-13     | 111,884 | 104,016 | 104,262 | 95,511  | 96,007  | 95,972  |   |   |   |    |
| 15   | M=P <sub>n</sub> -P <sub>n-1</sub>               |           |         | 744     | 771     | 770     | 833     | 831     |   |   |   |    |
| 16   | N=I <sub>n</sub> +I <sub>n-1</sub>               |           |         | 215,900 | 216,146 | 199,773 | 200,269 | 200,234 |   |   |   |    |
| 17   | M x N                                            | 15x16     |         |         | 166,727 |         |         | 166,320 |   |   |   |    |
| 18   | Σ (M x N)                                        | Σ17       |         |         | 166,349 |         |         |         |   |   |   |    |

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# SUGGESTED FIELD DATA SHEET (Not Required To File)

3/26/84

Test

☒ Initial

☐ Annual

☐ Special

Test Date

Lease No. or Serial No.

Corey Stone PET

Connection

AIR

Allottee

Field SOUTH PITCH Fork Run MORROW

Reservoir

Location

3343.4 GL.

Unit

Completion Date

3/23/84

Total Depth

15,800

Plug Back TD

15,735

Elevation

Form or Lease Name

TAULINA BASIN

Cas. Size

5 1/2

WT.

23

PIID

Set At

15,800

Perforations: From

To

15,016 15,436

Well No.

UNL 2

Tool. Size

2 7/8

WT.

7.90

Set At

13,190

Perforations: From

To

OPEN ENDED

Sec.

16

Twp.-sec.

25-3

Range

34-E

Type Completion (Describe)

SINGLE

Packer Set At

13,070

County or Parish

LEA

Formation

T89

Reservoir Temp. F

Mean Annual Temp. F

60°

Baro. Press. - P<sub>a</sub>

13.2

State

N. Mex.

H

G<sub>g</sub>

% CO<sub>2</sub>

% N<sub>2</sub>

% H<sub>2</sub>S

Prover

Meter Run

2.900

FLg

| DATE          | ELAP. TIME | Wellhead Working Pressure |            |         | METER OR PROVER |       |         |         | REMARKS                                                      |
|---------------|------------|---------------------------|------------|---------|-----------------|-------|---------|---------|--------------------------------------------------------------|
|               |            | Tbg. Psig.                | Cas. Psig. | Temp. F | Pressure Psig.  | Diff. | Temp. F | Orifice |                                                              |
| Time: Reading | Hrs.       |                           |            |         |                 |       |         |         | (Include liquid production data: Type-A.P.I. Gravity-Amount) |
| 6:10          | 1.0        | 7550                      | PKR        | 62°     |                 |       |         |         | SHUT-IN PRE-HEAT BATH                                        |
| 7:00          | 1.0        | 7550                      | PKR        |         |                 |       |         |         | TURN TO SEA @ 7:00, START TEST                               |
| 7:15          | 1.5        | 7178                      | PKR        | 62°     | 550             | 10"   | 93°     | 1.750   |                                                              |
| 7:30          | 1.30       | 7173                      | PKR        | 62°     | 550             | 11"   | 94°     | 1.750   | 4.5/64 CHOKE                                                 |
| 7:45          | 1.45       | 7173                      | PKR        | 62°     | 550             | 11"   | 94°     | 1.750   | END RATE I - NO FLOW - 1.575 MMCF/D                          |
|               |            |                           |            |         |                 |       |         |         | START RATE II                                                |
| 8:00          | 1.0        | 6935                      | PKR        | 62°     | 550             | 21"   | 93°     | 1.750   |                                                              |
| 8:15          | 1.15       | 6905                      | PKR        | 62°     | 550             | 20"   | 94°     | 1.750   | CONDENSATE LG SURFACE 1.50                                   |
| 8:30          | 1.30       | 6905                      | PKR        | 62°     | 550             | 20"   | 93°     | 1.750   | 4.5/64 CHOKE                                                 |
|               |            |                           |            |         |                 |       |         |         | END RATE II - 2.130 MMCF/D - 2.5 BBL COND                    |
|               |            |                           |            |         |                 |       |         |         | START RATE III                                               |
| 8:45          | 1.45       | 6430                      | PKR        | 62°     | 560             | 44"   | 93°     | 1.750   |                                                              |
| 9:00          | 2.0        | 6405                      | PKR        | 62°     | 560             | 40"   | 92°     | 1.750   | 7.2/64 CHOKE                                                 |
| 9:15          | 2.15       | 6405                      | PKR        | 62°     | 560             | 39"   | 93°     | 1.750   | END RATE III 3.000 MMCF/D 2.5 BBL COND                       |
|               |            |                           |            |         |                 |       |         |         | START RATE IV                                                |
| 9:30          | 2.30       | 5675                      | PKR        | 62°     | 560             | 76"   | 84°     | 1.750   |                                                              |
| 9:45          | 2.45       | 5690                      | PKR        | 62°     | 560             | 62"   | 82°     | 1.750   | TRASH IN CHOKE @ 9:45                                        |
| 10:00         | 3.0        | 5647                      | PKR        | 62°     | 560             | 68"   | 80°     | 1.750   | 9/64 CHOKE                                                   |
| 10:15         | 3.15       | 5647                      | PKR        | 62°     | 560             | 68"   | 81°     | 1.750   | END RATE IV - 3.990 MMCF/D 2.5 BBL COND                      |
|               |            |                           |            |         |                 |       |         |         | TOTAL FLOW 1.75 BBL COND.                                    |
|               |            |                           |            |         |                 |       |         |         | S.G. 47.7 @ 60°                                              |
|               |            |                           |            |         |                 |       |         |         | NO WATER                                                     |

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JARREL WELL TESTING, INC.

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HOBBS, NEW MEXICO 88240

|                   |  |                                  |  |                                                                                   |  |                                                                                  |  |                                     |  |
|-------------------|--|----------------------------------|--|-----------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|--|-------------------------------------|--|
| CUSTOMER          |  | WELL NAME OR NUMBER              |  | TEST UNIT DESCRIPTION                                                             |  | DATE (DAY, MO., YR.)                                                             |  | PAGE OF                             |  |
| STONE PET.        |  | JAEVELINA BASIN Unit 1           |  | 1 mm BTU/lb. 3 Phase Sep                                                          |  | 22/3/89                                                                          |  | 1 6                                 |  |
| INTERVAL TESTED   |  | FIELD                            |  | FORMATION                                                                         |  | STATIC PRESSURE TAKEN                                                            |  |                                     |  |
| 15,076' & 15,436' |  | MAQUERA RANCH                    |  | Moreau                                                                            |  | <input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |  |                                     |  |
|                   |  | BHP SURVEY DEPTH (FT.)           |  | GAS PRODUCED TO                                                                   |  | GAS METER RUN                                                                    |  | DIFF. RANGE (INS. H <sub>2</sub> O) |  |
|                   |  | NONE                             |  | (FT.) <input type="checkbox"/> PIPELINE <input checked="" type="checkbox"/> FLARE |  | 2,900 (INS.)                                                                     |  | 0-100'                              |  |
|                   |  | WELLHEAD DATA                    |  | FLOW CONTROL                                                                      |  | GAS METERING                                                                     |  |                                     |  |
|                   |  | TUBING PRESS. (PSIG)             |  | HEATER CHOKE (64th IN)                                                            |  | ORIFICE SIZE (INS)                                                               |  | STATIC PRESS. (PSIG)                |  |
|                   |  | TEMP. (°F)                       |  |                                                                                   |  |                                                                                  |  | DIFF. PRESS. (IN H <sub>2</sub> O)  |  |
|                   |  | CASING PRESS. (PSIG)             |  |                                                                                   |  |                                                                                  |  | TEMP. (°F)                          |  |
|                   |  | WATER                            |  |                                                                                   |  |                                                                                  |  | CONDENSATE                          |  |
|                   |  | MCF/DAY                          |  |                                                                                   |  |                                                                                  |  | REMARKS                             |  |
|                   |  | TIME                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | DAY                              |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 24 HOUR                          |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | CLOCK                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | FLOW OR SHUT-IN DURATION (HOURS) |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 13/22                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 11:20                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 0                                |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 5639                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 11:30                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 10                               |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 4650                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | PKR                              |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 11:30                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 11                               |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:45                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:00                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:00                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:00                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:00                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:15                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 11:50                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1000                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:30                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1:10                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1000                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 12:45                            |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1:25                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1450                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1:00                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1:40                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1200                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1:15                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1100                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1:30                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:10                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1000                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:25                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 950                              |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:00                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:40                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1050                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:15                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1100                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:30                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 3:10                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1250                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 2:45                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1350                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 3:00                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1150                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 3:30                             |  |                                                                                   |  |                                                                                  |  |                                     |  |
|                   |  | 1000                             |  |                                                                                   |  |                                                                                  |  |                                     |  |

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|                 |  |                    |  |                     |  |                        |  |                       |  |                         |  |                       |  |            |  |
|-----------------|--|--------------------|--|---------------------|--|------------------------|--|-----------------------|--|-------------------------|--|-----------------------|--|------------|--|
| CUSTOMER        |  | STONE PET.         |  | WELL NAME OR NUMBER |  | JAVELINA BASIN Unit #2 |  | TEST UNIT DESCRIPTION |  | 1 mm BTU/He 3 Phase Sep |  | DATE (CAL. NO., YR.)  |  | PAGE OF    |  |
| INTERVAL TESTED |  | 15,076' to 15,436' |  | (FT.)               |  | NONE                   |  | GAS PRODUCED TO       |  | MORROW                  |  | STATIC PRESSURE TAKEN |  |            |  |
| TIME            |  | WELLHEAD DATA      |  | FLOW CONTROL        |  | GAS METERING           |  | FORMATION             |  | 0-100'                  |  | UPSTREAM              |  | DOWNSTREAM |  |
| DAY             |  | TUBING             |  | CASING              |  | HEATER                 |  | ORIFICE               |  | STATIC                  |  | DIFF                  |  | TEMP.      |  |
| 24 HOUR         |  | PRESS.             |  | PRESS.              |  | CHOKE                  |  | SIZE                  |  | PRESS.                  |  | (IN)                  |  | (°F)       |  |
| CLOCK           |  | (PSIG)             |  | (PSIG)              |  | (64th IN)              |  | (INS)                 |  | (PSIG)                  |  | (H <sub>2</sub> O)    |  |            |  |
| (HOURS)         |  |                    |  |                     |  |                        |  |                       |  |                         |  |                       |  |            |  |
| 1               |  | 4:00               |  | 1000                |  | PKR                    |  | 16                    |  |                         |  | 1 @ 5.5               |  |            |  |
| 2               |  | 5:00               |  | 1000                |  | PKR                    |  | 16                    |  |                         |  | 1 @ 6.5               |  |            |  |
| 3               |  | 6:00               |  | 1000                |  | PKR                    |  | 16                    |  |                         |  | 1 @ 7.5               |  |            |  |
| 4               |  | 7:00               |  | 5500                |  | PKR                    |  | 16                    |  |                         |  | 1 @ 9.5               |  |            |  |
| 5               |  |                    |  |                     |  |                        |  |                       |  |                         |  |                       |  |            |  |
| 6               |  |                    |  |                     |  |                        |  |                       |  |                         |  |                       |  |            |  |
| 7               |  | 8:30               |  | 8620                |  | 63°                    |  | PKR                   |  |                         |  |                       |  |            |  |
| 8               |  | 9:40               |  | 8620                |  | 63°                    |  | PKR                   |  |                         |  |                       |  |            |  |
| 9               |  | 9:45               |  | 8190                |  | 63°                    |  | 5                     |  | 1500                    |  | 500                   |  | 33" 94°    |  |
| 10              |  | 10:00              |  | 8150                |  | 63°                    |  | 5                     |  | 1500                    |  | 500                   |  | 33" 99°    |  |
| 11              |  | 10:15              |  | 8160                |  | 63°                    |  | 5                     |  | 1500                    |  | 520                   |  | 30" 101°   |  |
| 12              |  | 10:30              |  | 8150                |  | 63°                    |  | 5                     |  | 1500                    |  | 530                   |  | 31" 104°   |  |
| 13              |  | 10:45              |  | 8150                |  | 63°                    |  | 5                     |  | 1500                    |  | 530                   |  | 31" 104°   |  |
| 14              |  | 11:00              |  | 8105                |  | 63°                    |  | 5                     |  | 1500                    |  | 525                   |  | 32" 104°   |  |
| 15              |  | 11:30              |  | 8105                |  | 63°                    |  | 5                     |  | 1500                    |  | 525                   |  | 32" 105°   |  |
| 16              |  | 12:00              |  | 8143                |  | 63°                    |  | 5                     |  | 1500                    |  | 525                   |  | 33" 106°   |  |
| 17              |  | 1:00               |  | 8176                |  | 63°                    |  | 5                     |  | 1500                    |  | 525                   |  | 36" 104°   |  |
| 18              |  | 2:00               |  | 8130                |  | 63°                    |  | 5                     |  | 1500                    |  | 525                   |  | 36" 105°   |  |

EST. GAS VOLUME 1.500 mmscfd

Shut-in to thaw chicken

Shut-in, PRE-HEAT BATH

TURN to Sep. on 5/64 @ 9:40

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|                                            |                          |                                                                                                |            |                                                                       |                        |                                                                                                           |                      |                                     |            |       |            |          |                              |
|--------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|------------|-------|------------|----------|------------------------------|
| CUSTOMER<br><b>Stone Pex</b>               |                          | WELL NAME OR NUMBER<br><b>JAVELINA BASIN Unit #2</b>                                           |            | TEST UNIT DESCRIPTION<br><b>1 mm BDU/He 3 Phase Sep.</b>              |                        | DATE (MO., DAY, YR.)<br><b>23/3/84</b>                                                                    |                      | PAGE OF<br><b>3</b>                 |            |       |            |          |                              |
| INTERVAL TESTED<br><b>15976' to 15436'</b> |                          | FIELD<br><b>MADERA RANCH</b>                                                                   |            | FORMATION<br><b>Moberow</b>                                           |                        | STATIC PRESSURE TAKEN<br><input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |                      |                                     |            |       |            |          |                              |
| BHP SURVEY DEPTH (FT.)<br><b>None</b>      |                          | GAS PRODUCED TO<br>PIPELINE <input checked="" type="checkbox"/> FLARE <input type="checkbox"/> |            | GAS METER RUN<br>DIFF. RANGE (INS. H <sub>2</sub> O)<br><b>0-100"</b> |                        |                                                                                                           |                      |                                     |            |       |            |          |                              |
| TIME                                       |                          | WELLHEAD DATA                                                                                  |            | FLOW CONTROL                                                          |                        | GAS METERING                                                                                              |                      | REMARKS                             |            |       |            |          |                              |
| DAY                                        | FLOW OR SHUT IN DURATION | TUBING PRESS. (PSIG)                                                                           | TEMP. (°F) | CASING PRESS. (PSIG)                                                  | HEATER CHOKE (64th IN) | ORIFICE SIZE (INS)                                                                                        | STATIC PRESS. (PSIG) | DIFF. PRESS. (IN. H <sub>2</sub> O) | TEMP. (°F) | WATER | CONDENSATE | MMCF/DAY |                              |
| 24 HOUR CLOCK                              |                          |                                                                                                |            |                                                                       |                        |                                                                                                           |                      |                                     |            |       |            |          |                              |
| 13/23                                      | 5:20                     | 8093                                                                                           | 63°        | PKR                                                                   | 5                      | 1500                                                                                                      | 525                  | 36"                                 | 104        |       | 25 @ 25    | 2.010    | Well Making Small Cond.      |
| 3:00                                       | 6:20                     | 8105                                                                                           | 63°        | PKR                                                                   | 5                      | 1500                                                                                                      | 520                  | 36"                                 | 105°       |       | 25 @ .5    | 2.012    |                              |
| 4:00                                       | 7:30                     | 8093                                                                                           | 63°        | PKR                                                                   | 5                      | 1500                                                                                                      | 520                  | 36"                                 | 105°       |       | 25 @ .75   | 2.012    |                              |
| 5:00                                       | 8:20                     | 8110                                                                                           | 63°        | PKR                                                                   | 5                      | 1500                                                                                                      | 520                  | 36"                                 | 106°       |       | 25 @ 1.0   | 2.012    |                              |
| 6:00                                       | 9:20                     | 8105                                                                                           | 63°        | PKR                                                                   | 5                      | 1500                                                                                                      | 520                  | 36"                                 | 105°       |       | 25 @ 1.25  | 2.012    | Change PLATE to 1.750 @ 7:00 |
| 7:00                                       | 10:20                    | 7380                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 37"                                 | 104°       |       | 25 @ 1.50  | 2.830    | Bump CHOKE to 7/64 @ 7:00    |
| 8:00                                       | 11:20                    | 7310                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 37"                                 | 105°       |       | 25 @ 1.75  | 2.830    |                              |
| 9:00                                       | 12:20                    | 7330                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 37"                                 | 103°       |       | 25 @ 2.0   | 2.830    |                              |
| 10:00                                      | 13:20                    | 7340                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 540                  | 42"                                 | 106°       |       | 25 @ 2.25  | 2.910    |                              |
| 11:00                                      | 14:20                    | 7347                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 38"                                 | 105°       |       | 25 @ 2.5   | 2.860    |                              |
| 12:00                                      | 15:20                    | 7330                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 570                  | 38"                                 | 106°       |       | 25 @ 2.75  | 2.900    |                              |
| 1:00                                       | 16:20                    | 7335                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 540                  | 38"                                 | 104°       |       | 25 @ 3.0   | 2.900    |                              |
| 2:00                                       | 17:20                    | 7348                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 540                  | 38"                                 | 103°       |       | 25 @ 3.25  | 2.900    |                              |
| 3:00                                       | 18:20                    | 7380                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 540                  | 37"                                 | 104°       |       | 25 @ 3.5   | 2.790    |                              |
| 4:00                                       | 19:20                    | 7383                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 37'                                 | 104°       |       | 25 @ 3.75  | 2.830    |                              |
| 5:00                                       | 20:20                    | 7370                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 36"                                 | 102°       |       | 25 @ 4.0   | 2.800    |                              |
| 6:00                                       | 21:20                    | 7380                                                                                           | 63°        | PKR                                                                   | 6                      | 1750                                                                                                      | 550                  | 35'                                 | 103°       |       | 25 @ 4.25  | 2.775    |                              |

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HOBBS, NEW MEXICO 88240

|                                              |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
|----------------------------------------------|--------------------------|------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------|---------------------|-------|---------------------|--|
| CUSTOMER<br><b>STONE PET.</b>                |                          | WELL NAME OR NUMBER<br><b>JAVELINA BASIN Unit #2</b> |            | FIELD<br><b>MADERA RANCH</b>                                                                            |                        | TEST UNIT DESCRIPTION<br><b>1 mm BTU/hr 3 Phase Sep</b>                           |                      | DATE<br>(DAY, MO., YR.)<br><b>23/3/84</b>                                                                 | PAGE OF<br><b>4</b> |       |                     |  |
| INTERVAL TESTED<br><b>15,076' to 15,436'</b> |                          | RHP SOURCE DEPTH<br>(FT.)<br><b>NONE</b>             |            | GAS PRODUCED TO<br>(FT.)<br><input checked="" type="checkbox"/> PIPELINE <input type="checkbox"/> FLARE |                        | GAS METER RUN (DIFF. RANGE (INS. H <sub>2</sub> O))<br><b>2,900 (INS.) 0-100'</b> |                      | STATIC PRESSURE TAKEN<br><input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |                     |       |                     |  |
| TIME                                         |                          | WELLHEAD DATA                                        |            | FLOW CONTROL                                                                                            |                        | GAS METERING                                                                      |                      | REMARKS                                                                                                   |                     |       |                     |  |
| DAY                                          | FLOW OR SHUT-IN DURATION | TUBING PRESS. (PSIG)                                 | TEMP. (°F) | CASING PRESS. (PSIG)                                                                                    | HEATER CHOKE (64th IN) | ORIFICE SIZE (INS)                                                                | STATIC PRESS. (PSIG) | DIFF. PRESS. (IN. H <sub>2</sub> O)                                                                       | TEMP. (°F)          | WATER | CONDENSATE MMCF/DAY |  |
| 24 HOUR CLOCK                                | (HOURS)                  |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 13/23                                        | 8:00                     | 7380                                                 | 63°        | PKR                                                                                                     | 6                      | 1.750                                                                             | 540                  | 34"                                                                                                       | 103°                |       | 25 @ 4.5            |  |
| 2                                            |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 9:00                                         | 23:20                    | 7363                                                 | 63°        | PKR                                                                                                     | 6                      | 1.750                                                                             | 540                  | 34"                                                                                                       | 101°                |       | 25 @ 4.75           |  |
| 3                                            |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 10:00                                        | 24:20                    | 7360                                                 | 63°        | PKR                                                                                                     | 6                      | 1.750                                                                             | 540                  | 34"                                                                                                       | 100°                |       | 25 @ 5.0            |  |
| 4                                            |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 11:00                                        | 25:20                    | 7365                                                 | 63°        | PKR                                                                                                     | 6                      | 1.750                                                                             | 540                  | 34"                                                                                                       | 103°                |       | 25 @ 5.25           |  |
| Middle                                       |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 13/24                                        | 5:00                     | 8235                                                 |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 7                                            |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 5:15                                         | 0                        | 8235                                                 |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 8                                            |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 6:00                                         | 0                        | 8235                                                 |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 9                                            |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 6:15                                         | 15                       | 7050                                                 | 63°        | PKR                                                                                                     | 9                      | 1.750                                                                             | 540                  | 92"                                                                                                       | 101°                |       | 4,300               |  |
| 10                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 6:30                                         | 30                       | 6635                                                 | 63°        | PKR                                                                                                     | 9                      | 1.750                                                                             | 590                  | 89"                                                                                                       | 103°                |       | 4,200               |  |
| 11                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 6:45                                         | 45                       | 6560                                                 | 63°        | PKR                                                                                                     | 9                      | 1.750                                                                             | 530                  | 77"                                                                                                       | 103°                |       | 3,975               |  |
| 12                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 7:00                                         | 1.0                      | 6534                                                 | 63°        | PKR                                                                                                     | 9                      | 1.750                                                                             | 530                  | 76"                                                                                                       | 101°                |       | 25 @ 25             |  |
| 13                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 7:30                                         | 1.30                     | 6543                                                 | 63°        | PKR                                                                                                     | 9                      | 1.750                                                                             | 540                  | 74"                                                                                                       | 100°                |       | 3,940               |  |
| 14                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 8:00                                         | 2.0                      | 6645                                                 | 63°        | PKR                                                                                                     | 9                      | 1.750                                                                             | 540                  | 69"                                                                                                       | 102°                |       | 25 @ 5              |  |
| 15                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 9:00                                         | 3.0                      | 6560                                                 | 63°        | PKR                                                                                                     | 10                     | 1.750                                                                             | 540                  | 72"                                                                                                       | 103°                |       | 25 @ 75             |  |
| 16                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 10:00                                        | 4.0                      | 6625                                                 | 63°        | PKR                                                                                                     | 10                     | 1.750                                                                             | 540                  | 65"                                                                                                       | 102°                |       | 5 @ 125             |  |
| 17                                           |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |
| 11:00                                        | 5.0                      | 6580                                                 | 63°        | PKR                                                                                                     | 10                     | 1.750                                                                             | 550                  | 65"                                                                                                       | 103                 |       | 5 @ 1.25            |  |
|                                              |                          |                                                      |            |                                                                                                         |                        |                                                                                   |                      |                                                                                                           |                     |       |                     |  |

shut-in @ 11:00 For Bump-Up

Well Shut-in 6 hrs. @ 5:00

Shut-in Pre-Heat Bath @ 5:15

Turn to Sep @ 6:00 on 9/64

Fluid to Surface @ 6:20

Bump Choke to 10/64 @ 8:00

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|----------------------------------------------|--------------------------|------------------------------------------------------|------------|----------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|------------|-------|------------|---------|----------------------------|
| CUSTOMER<br><b>STONE PET.</b>                |                          | WELL NAME OR NUMBER<br><b>JADELINA BASIN Unit #2</b> |            | TEST UNIT DESCRIPTION<br><b>1 mm BTU/Hr. 3 PHASE SEP</b> |                        | DATE<br>(DAY, MO., YR.)<br><b>24/3/84</b>                                                                 | PAGE OF<br><b>5</b>  |                                     |            |       |            |         |                            |
| INTERVAL TESTED<br><b>15,076' to 15,436'</b> |                          | BHP SURVEY DEPTH<br>(FT.)<br><b>NONE</b>             |            | GAS PRODUCED TO<br>SIZE<br>FLARE<br><b>2,900 (INS)</b>   |                        | STATIC PRESSURE TAKEN<br><input type="checkbox"/> UPSTREAM <input checked="" type="checkbox"/> DOWNSTREAM |                      |                                     |            |       |            |         |                            |
| TIME                                         |                          | WELLHEAD DATA                                        |            | FLOW CONTROL                                             |                        | GAS METERING                                                                                              |                      |                                     |            |       |            |         |                            |
| DAY                                          | FLOW OR SHUT-IN DURATION | TUBING PRESS. (PSIG)                                 | TEMP. (°F) | CASING PRESS. (PSIG)                                     | HEATER CHOKE (64th IN) | ORIFICE SIZE (INS)                                                                                        | STATIC PRESS. (PSIG) | DIFF. PRESS. (IN. H <sub>2</sub> O) | TEMP. (°F) | WATER | CONDENSATE | MCF/DAY | REMARKS                    |
| 24 HOUR CLOCK                                | (HOURS)                  | (PSIG)                                               | (°F)       | (PSIG)                                                   |                        | (INS)                                                                                                     |                      | (IN. H <sub>2</sub> O)              | (°F)       |       |            |         |                            |
| 13/24                                        | 6.0                      | 6013                                                 | 63°        | PKR                                                      | 10                     | 1.750                                                                                                     | 550                  | 66"                                 | 104°       |       | .5 @ 2.25  | 3900    | Well Sugging WATER & Mud   |
| 12:00                                        | 7.0                      | 6049                                                 | 63°        | PKR                                                      | 10                     | 1.750                                                                                                     | 550                  | 74"                                 | 103°       |       | .5 @ 2.75  | 4085    | @ 12:30                    |
| 3/24                                         | 8.0                      | 6220                                                 | 63°        | PKR                                                      | 10                     | 1.750                                                                                                     | 550                  | 75"                                 | 104°       |       | .5 @ 3.25  | 4100    | Cut Choke to 9.5/64 @ 2:00 |
| 1:00                                         | 9.0                      | 6295                                                 | 63°        | PKR                                                      | 9.5                    | 1.750                                                                                                     | 560                  | 78"                                 | 103°       |       | .25 @ 3.5  | 4200    | Cut Choke to 9/64 @ 3:00   |
| 2:00                                         | 10.0                     | 6410                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 68"                                 | 102°       |       | .25 @ 3.75 | 3930    |                            |
| 3:00                                         | 11.0                     | 6350                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 98°        |       | .25 @ 4.0  | 3980    |                            |
| 4:00                                         | 12.0                     | 6310                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 96°        |       | .25 @ 4.25 | 3980    | Specific Gravity 477 @ 60° |
| 5:00                                         | 13.0                     | 6290                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 96°        |       | .25 @ 4.5  | 3980    |                            |
| 6:00                                         | 14.0                     | 6260                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 95°        |       | .25 @ 4.75 | 3980    |                            |
| 7:00                                         | 15.0                     | 6268                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 96°        |       | .25 @ 5.0  | 3980    |                            |
| 8:00                                         | 16.0                     | 6223                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 540                  | 69"                                 | 96°        |       | .25 @ 5.25 | 3875    |                            |
| 9:00                                         | 17.0                     | 6210                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 540                  | 69"                                 | 95°        |       | .25 @ 5.5  | 3875    |                            |
| 10:00                                        | 18.0                     | 6226                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 540                  | 69"                                 | 95°        |       | .25 @ 5.75 | 3875    |                            |
| 11:00                                        | 19.0                     | 6280                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 540                  | 69"                                 | 96°        |       | .25 @ 6.0  | 3875    |                            |
| 12:00                                        | 20.0                     | 6190                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 94°        |       | .25 @ 6.25 | 3980    |                            |
| 1:00                                         | 21.0                     | 6150                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 91°        |       | .25 @ 6.5  | 3980    |                            |
| 2:00                                         | 22.0                     | 6160                                                 | 63°        | PKR                                                      | 9                      | 1.750                                                                                                     | 550                  | 70"                                 | 95°        |       | .25 @ 6.75 | 3980    |                            |

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|--------------------|--|------------------------|--|-----------------|--|--------------------------|--|-------------------------------------|--|---------------------------|--|
| CUSTOMER           |  | WELL NAME OR NUMBER    |  | FIELD           |  | TEST UNIT DESCRIPTION    |  | DATE                                |  | PAGE                      |  |
| SLOVE PER.         |  | JAVELINA BASIN Unit #2 |  | MADERA RANCH    |  | 1 mm BTU/hr 3 Phase SEP. |  | 25/3/84                             |  | 6                         |  |
| INTERVAL TESTED    |  | BHP SURVEY DEPTH       |  | GAS PRODUCED TO |  | GAS METER RUN            |  | DIFF. RANGE (INS. H <sub>2</sub> O) |  | STATIC PRESSURE TAKEN     |  |
| 15,076' to 15,436' |  | None                   |  | (FT.)           |  | PIPELINE                 |  | FLARE                               |  | UPSTREAM                  |  |
| TIME               |  | WELLHEAD DATA          |  | FLOW CONTROL    |  | GAS METERING             |  | WATER                               |  | CONDENSATE                |  |
| DAY                |  | TUBING PRESS.          |  | HEATER CHOKE    |  | ORIFICE SIZE             |  | STATIC PRESS.                       |  | MCF/DAY                   |  |
| 24 HOUR            |  | TEMP.                  |  | (64th IN)       |  | (INS)                    |  | (PSIG)                              |  | 6.75                      |  |
| CLOCK              |  | (°F)                   |  |                 |  | (INS)                    |  | (H <sub>2</sub> O)                  |  | 25 @ 70                   |  |
| 13/25              |  | 63°                    |  | 9               |  | 1.750                    |  | 70°                                 |  | 3.980                     |  |
| 5:00               |  | 63°                    |  |                 |  |                          |  |                                     |  | Shut-in @ 5:00 For 24 Hr. |  |
| 2                  |  |                        |  |                 |  |                          |  |                                     |  | Build-Up                  |  |
| 3                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 4                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 5                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 6                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 7                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 8                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 9                  |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 10                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 11                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 12                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 13                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 14                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 15                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 16                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |
| 17                 |  |                        |  |                 |  |                          |  |                                     |  |                           |  |

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