

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

**OIL CONSERVATION DIVISION**  
**2040 South Pacheco**  
**Santa Fe, NM 87505**

Form C-104  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

|                                                                                                     |                                                                                        |                                                                  |                                 |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------|
| <sup>1</sup> Operator name and Address<br>EOG RESOURCES, INC.<br>P.O. Box 2267<br>Midland, TX 79702 |                                                                                        | <sup>2</sup> OGRID Number<br>7377                                |                                 |
| Effective 7-1-00                                                                                    |                                                                                        | <sup>3</sup> Reason for Filing Code<br>CHANGE WELL NAME & NUMBER |                                 |
| <sup>4</sup> API Number<br>30-0 25 - 28003                                                          | <sup>5</sup> Pool Name<br>Red Hills (Bone Springs)                                     |                                                                  | <sup>6</sup> Pool Code<br>51020 |
| <sup>7</sup> Property Code<br>26406                                                                 | <sup>8</sup> Property Name<br>Red Hills North Unit (formerly - Javelina 17 Federal #1) |                                                                  | <sup>9</sup> Well Number<br>901 |

**II. <sup>10</sup> Surface Location**

|                    |               |                |             |          |                       |                           |                                      |                        |               |
|--------------------|---------------|----------------|-------------|----------|-----------------------|---------------------------|--------------------------------------|------------------------|---------------|
| UL or lot no.<br>G | Section<br>17 | Township<br>25 | Range<br>34 | Lot. Idn | Feet from the<br>1980 | North/South Line<br>NORTH | Feet from the<br><del>1980</del> 278 | East/West line<br>EAST | County<br>LEA |
|--------------------|---------------|----------------|-------------|----------|-----------------------|---------------------------|--------------------------------------|------------------------|---------------|

**<sup>11</sup> Bottom Hole Location**

|                             |                                     |                                   |                                   |                                    |                                     |                  |               |                |        |
|-----------------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------|---------------|----------------|--------|
| UL or lot no.               | Section                             | Township                          | Range                             | Lot. Idn                           | Feet from the                       | North/South Line | Feet from the | East/West line | County |
| <sup>12</sup> Lse Code<br>F | <sup>13</sup> Producing Method Code | <sup>14</sup> Gas Connection Date | <sup>15</sup> C-129 Permit Number | <sup>16</sup> C-129 Effective Date | <sup>17</sup> C-129 Expiration Date |                  |               |                |        |

**III. Oil and Gas Transporters**

|                                 |                                            |                               |                   |                                                  |
|---------------------------------|--------------------------------------------|-------------------------------|-------------------|--------------------------------------------------|
| <sup>18</sup> Transporter OGRID | <sup>19</sup> Transporter Name and Address | <sup>20</sup> POD             | <sup>21</sup> O/G | <sup>22</sup> POD ULSTR Location and Description |
| 037480                          | EOTT PIPELINE                              | <del>2826305</del><br>2814336 | 0                 | U/L C SECTION 18, T-25-S, R-34-E                 |
| 020809                          | SID RICHARDSON                             | <del>2826310</del><br>2814337 | G                 | SALES METER @ U/L C SECTION 18, T-25-S, R-34-E   |
|                                 |                                            |                               |                   |                                                  |
|                                 |                                            |                               |                   |                                                  |
|                                 |                                            |                               |                   |                                                  |

**IV. Produced Water**

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| <sup>23</sup> POD<br>2826307 | <sup>24</sup> POD ULSTR Location and Description |
|------------------------------|--------------------------------------------------|

**V. Well Completion Data**

|                         |                                    |                         |                            |                            |                           |
|-------------------------|------------------------------------|-------------------------|----------------------------|----------------------------|---------------------------|
| <sup>25</sup> Spud Date | <sup>26</sup> Ready Date           | <sup>27</sup> TD        | <sup>28</sup> PBTD         | <sup>29</sup> Perforations | <sup>30</sup> DHC, DC, MC |
| <sup>31</sup> Hole Sie  | <sup>32</sup> Casing & Tubing Size | <sup>33</sup> Depth Set | <sup>34</sup> Sacks Cement |                            |                           |
|                         |                                    |                         |                            |                            |                           |
|                         |                                    |                         |                            |                            |                           |
|                         |                                    |                         |                            |                            |                           |

**VI. Well Test Data**

|                            |                                 |                         |                           |                             |                             |
|----------------------------|---------------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------|
| <sup>35</sup> Date New Oil | <sup>36</sup> Gas Delivery Date | <sup>37</sup> Test Date | <sup>38</sup> Test Length | <sup>39</sup> Tbg. Pressure | <sup>40</sup> Csg. Pressure |
| <sup>41</sup> Choke Size   | <sup>42</sup> Oil               | <sup>43</sup> Water     | <sup>44</sup> Gas         | <sup>45</sup> AOF           | <sup>46</sup> Test Method   |

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Mike Francis*

Printed name:  
MIKE FRANCIS

Title:  
AGENT

Date: 8/22/00

Phone: 915/686-3714

**OIL CONSERVATION DIVISION**

Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS  
DISTRICT I SUPERVISOR

Title:

Approval Date:

<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

Submit in duplicate to  
appropriate district office.  
See Rule 401 & Rule 1122

State of New Mexico  
Energy Minerals and Natural Resources

Form C-122  
Revised October, 1999

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

|                                                                                                                 |  |                      |  |                          |  |                                      |  |                                            |                                          |                    |                 |            |
|-----------------------------------------------------------------------------------------------------------------|--|----------------------|--|--------------------------|--|--------------------------------------|--|--------------------------------------------|------------------------------------------|--------------------|-----------------|------------|
| Operator: E.O.G. Resources, Inc.                                                                                |  |                      |  |                          |  | Lease or Unit Name: Javelina 17 Fed. |  |                                            |                                          |                    |                 |            |
| Type Test:<br><input type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                      |  |                          |  | Test Date: 2-11-00                   |  |                                            | Well No.: 3                              |                    |                 |            |
| Completion Date: 12-1-99                                                                                        |  | Total Depth: 14,080' |  | Plug Back TD: 14,409'    |  | Elevation: 3000'                     |  |                                            | Unit Ltr. - Sec. - TWP - Rge<br>17 25 34 |                    |                 |            |
| Csg. Size: N/A                                                                                                  |  | Wt.:                 |  | D:                       |  | Set At: N/A                          |  | Perforations:<br>From: To:                 |                                          |                    | County: Lea, NM |            |
| Thg. Size: 2 7/8                                                                                                |  | Wt.:                 |  | D: 2.441                 |  | Set At:                              |  | Perforations:<br>From: 13,710' To: 13,832' |                                          |                    | Pool:           |            |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single                                                 |  |                      |  |                          |  | Packer Set At: N/A                   |  |                                            | Formation: Wolfcamp                      |                    |                 |            |
| Producing Thru Tbg.                                                                                             |  | Reservoir Temp. °F:  |  | Mean Annual Temp. °F: 60 |  | Baro. Press - P <sub>1</sub> : 13.2  |  |                                            | Connection: Sales                        |                    |                 |            |
| L: 13,710                                                                                                       |  | H: 13,710            |  | Gg: .747                 |  | %CO <sub>2</sub> : .485              |  | %N <sub>2</sub> : .792                     |                                          | %H <sub>2</sub> S: |                 | Prover:    |
|                                                                                                                 |  |                      |  |                          |  |                                      |  |                                            |                                          | Meter Run: 4.026"  |                 | Taps: Fig. |

| FLOW DATA |                  |   |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration Of Flow |
|-----------|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| No.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                  |   |              |                 |                      |          | 1485            | 60       | N/A             | N/A      |                  |
| 1.        | 4"               | x | 1.250        | 70.3            | N/A                  | 45       | 1375            | 60       | N/A             | N/A      | 1 Hr.            |
| 2.        | 4"               | x | 1.250        | 76.4            | N/A                  | 33       | 1195            | 60       | N/A             | N/A      | 1 Hr.            |
| 3.        | 4"               | x | 1.250        | 75.6            | N/A                  | 34       | 1050            | 60       | N/A             | N/A      | 1 Hr.            |
| 4.        | 4"               | x | 1.250        | 77.2            | N/A                  | 35       | 875             | 60       | N/A             | N/A      | 1 Hr.            |
| 5.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                               |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-------------------------------|----------------------|
| No.                       | COEFFICIENT (24 HOUR) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, F pv. | Rate of Flow Q, Mcfd |
| 1.                        | Gas by Total Flow     | N/A              | N/A                     | N/A                   | N/A               | N/A                           | 981                  |
| 2.                        | Gas by Total Flow     | N/A              | N/A                     | N/A                   | N/A               | N/A                           | 2,585                |
| 3.                        | Gas by Total Flow     | N/A              | N/A                     | N/A                   | N/A               | N/A                           | 5,548                |
| 4.                        | Gas by Total Flow     | N/A              | N/A                     | N/A                   | N/A               | N/A                           | 8,235                |
| 5.                        | Gas by Total Flow     | N/A              | N/A                     | N/A                   | N/A               | N/A                           |                      |

| No. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z   | Gas Liquid Hydrocarbon Ratio                      | Super Compress. Factor, F pv. | Rate of Flow Q, Mcfd |
|-----|----------------|----------|----------------|-----|---------------------------------------------------|-------------------------------|----------------------|
| 1.  | N/A            | N/A      | N/A            | N/A | 9.420                                             | N/A                           | Mcf/bbl.             |
| 2.  | N/A            | N/A      | N/A            | N/A | A. P. I. Gravity of Liquid Hydrocarbons 49.0 @ 60 | N/A                           | Deg.                 |
| 3.  | N/A            | N/A      | N/A            | N/A | Specific Gravity Separator Gas .747               | XXXXXXXXXX                    |                      |
| 4.  | N/A            | N/A      | N/A            | N/A | Specific Gravity Flowing Fluid XXXXXX             | Gmix= 1.050                   |                      |
| 5.  |                |          |                |     | Critical Pressure 667                             | P.S.I.A. 655                  | P.S.I.A.             |
|     |                |          |                |     | Critical Temperature 405                          | R. 507                        | R                    |

| No. | P <sub>1</sub> <sup>2</sup> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|
| 1.  |                             | 1388.7         | 1928.4                      | 316.2                                                     |
| 2.  |                             | 1209.5         | 1462.8                      | 781.8                                                     |
| 3.  |                             | 1065.2         | 1134.7                      | 1109.9                                                    |
| 4.  |                             | 891.3          | 794.4                       | 1450.2                                                    |
| 5.  |                             |                |                             |                                                           |

(1)  $P_c^2 = 2.022$

$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.124$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.501$

|                    |                     |                         |                 |
|--------------------|---------------------|-------------------------|-----------------|
| Absolute Open Flow | 1,124 Mcfd @ 15.025 | Angle of Slope θ: 60.04 | Slope, n: .5764 |
|--------------------|---------------------|-------------------------|-----------------|

Remarks: Total Fluid 11.2 BBLS 49.0 API GR

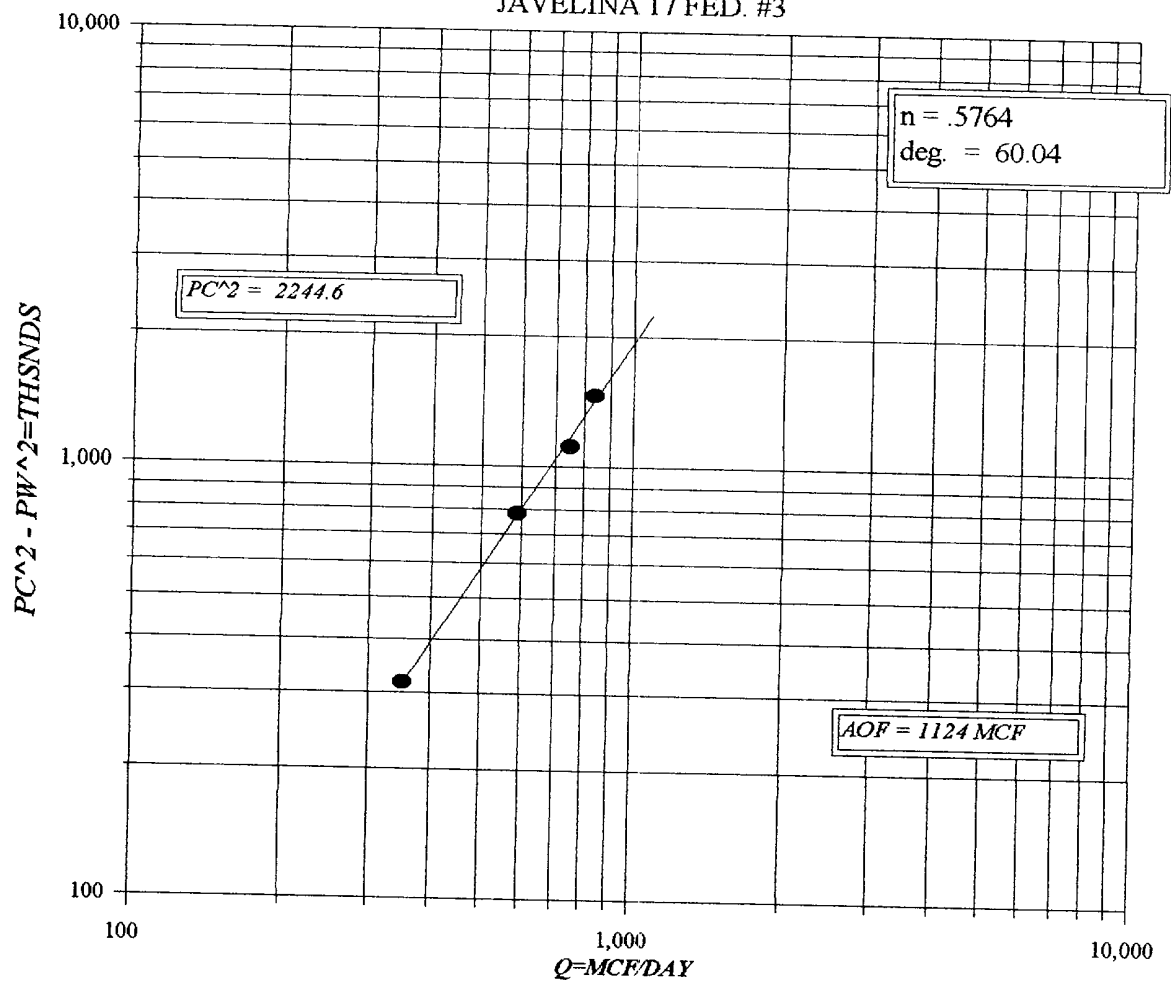
  

|                                               |                                                                    |                                                                      |                                                                   |
|-----------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Approved By Division<br><i>Chris Williams</i> | Conducted By:<br>Production Testing Services, Inc.<br>505-391-8703 | Calculated By:<br>Bob Murray, Independent Consultant<br>505-395-2349 | Checked By:<br>Bob Murray, Independent Consultant<br>505-395-2349 |
|-----------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|

DISTRICT 1 SUPERVISOR  
MAR 19 2000

# E.O.G. RESOURCES

JAVELINA 17 FED. #3



**505-391-8703**

## Absolute Open Flow Field Data Sheet

