| SUNDEY NOTICES AND REPORTS ON WELLS       NUMMINISH         Do not used this form for proposalis to off if or to reheard an abandoned well. Use form 35603 (APD) for such proposalis.       0. ITladiua, Alloneed TTINe Nac.         Numministic Time Proposalis Configuration on neverse side.       0. ITladiua, Alloneed TTINe Nac.       0. ITladiua, Alloneed TTINe Nac.         Numministic Time Proposalis.       0. ITLadiua, Alloneed TTINe Nac.       0. ITLadiua, Alloneed TTINe Nac.         Numministic Time Proposalis.       0. ITLadiua, Alloneed TTINe Nac.       0. ItLadiua Alloneed TTINe Nac.         Numministic Time Proposalis.       0. ItLadiua, Alloneed TTINe Nac.       0. ItLadiua, Alloneed TTINe Nac.         Numministic Time Proposalis.       0. ItLadiua, Alloneed TTINe Nac.       0. ItLadiua, Alloneed TTINe Nac.         Numministic Time Proposalis.       0. ItLadiua, Nume and Nac.       0. Status Statu   | <form><form><form><form></form></form></form></form>  | Form 3160-5<br>(August 2007) DE<br>Bl   | UNITED STATES<br>PARTMENT OF THE I<br>JREAU OF LAND MANA  | S NTERIOR CONTRACTOR  | D Holobs                                 | FORM<br>OMB N<br>Expires:<br>5. Lease Serial No. | APPROVED<br>O. 1004-0135<br>July 31, 2010 |
|---|---|---|---|---|--|--|---|
| SUBMIT IN TRIPLICATE - Other instructions on reverse side. <ul> <li>I. Topie d'Will</li> <li>Oli Well    Gau Well    Other</li> <li>Sea effordingen and the instructions on reverse side.</li> <li>I. Topie d'Will</li> <li>Oli Well    Gau Well    Other</li> <li>Sea effordingen and the instructions on reverse side.</li> <li>I. Topie d'Will</li> <li>On the instructions on reverse side.</li> <li>I. Topie d'Will</li> <li>On the instructions on reverse side.</li> <li>I. Topie d'Will</li> <li>On the instructions on reverse side.</li> <li>I. Topie d'Will</li> <li>On the instructions on reverse side.</li> <li>I. Topie d'Will</li> <li>I. Address</li> <li>I. CHECK APPROPRIATE BOX(ES) TO INDICATE RECEARCHAPP (CRURP)</li> <li>I. CHECK APPROPRIATE BOX(ES) TO</li></ul>  | <form>         SUBMIT IN TRIPLICATE - Other instructions on reverse side.          <ul> <li>Interpretendent</li> <li>State and "ungertendent set on the set of the s</li></ul></form>                                   | SUNDRY<br>Do not use thi<br>abandoned we  | NOTICES AND REPO<br>s form for proposals to<br>II. Use form 3160-3 (API                           | RTS ON WELLS<br>drill or to re-enter an<br>D) for such proposals.                           | -  | NMNM108977<br>6. If Indian, Allottee of          | r Tribe Name                              |
| 1. Type of Well         B. Well and B. B. B. Well and B.  | 1. Type of Well         9 UN Kill         0 UN Kill   | SUBMIT IN TRI   | PLICATE - Other instruc   | tions on reverse side.  |  | 7. If Unit or CA/Agree                           | ement, Name and/or No                     |
| A value of the control of the c | A variable of the properties of the properi | 1. Type of Well   |   |   |  | 8. Well Name and No.<br>DELLA 29 FED 7           | D1H                                       |
| <form>         1. drame       1. drame of the drame of th</form>               | <form>         1. Addimining       Production (Data Control and Control and</form>                | 2. Name of Operator<br>EOG RESOLIRCES INC   | Contact:<br>E-Mail: stan wagn   | STAN WAGNER   | /  | 9. API Well No. 30-025-43053                     | /   |
| <form>         1. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decarding I       1. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decarding I         1. Start of Weil (Processing Sec. T. Y. M., or Share) Decarding I       I. M. O. &amp; Cardinal Control (Processing Sec. T. Y. M., or Share) Decarding I       1. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decarding I         1. Start of Weil (Processing Sec. T. Y. M., or Share) Decarding I       I. M. O. &amp; Cardinal Control (Processing Sec. T. Y. M., or Share) Decarding I       1. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decarding I       1. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decarding I       I. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decarding I       I. Cardy of Weil (Processing Sec. T. Y. M., or Share) Decard Decar</form>  | <form><form><form><form></form></form></form></form>  | 3a. Address<br>P.O. BOX 2267<br>MIDI AND TX 70702   | L-Mail Start_wagh   | 3b. Phone No. (include area code)<br>Ph: 432-686-3689                                       |  | 10. Field and Pool, or<br>WILDGAT WOL            | Exploratory<br>FCAMP OIL                  |
| <form><form><form><form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form></form></form></form>   | <form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form>   | 4. Location of Well (Footage, Sec., T   | , R., M., or Survey Description   | HOBBSO  | or m                                     | 11. County or Parish,                            | and State Gan                             |
| <form><form><form><form><form><form><form></form></form></form></form></form></form></form>   | <form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form></form>   | Sec 29 T20S R34E SESE 250   | FSL 1270FEL   | JUN 0620  | 16                                       | LEA COUNTY,                                      | NM (7820)                                 |
| TYPE OF SUBMISSION       TYPE OF ACTION <ul> <li>Notice of Intent</li> <li>Akeduze</li> <li>Casing Repair</li> <li>Casing Repair</li> <li>Casing Repair</li> <li>Casing Repair</li> <li>Casing Repair</li> <li>Casing Repair</li> <li>New Construction</li> <li>Recomplete</li> <li>Other</li> <li>Other</li></ul>  | TYPE OF SUBMISSION       TYPE OF ACTION <ul> <li>Notice of Intent</li> <li>Alter Casing</li> <li>Deepen</li> <li>Production (Start/Resume)</li> <li>Water Shuce</li> <li>Casing Repair</li> <li>Deepen</li> <li>Production (Start/Resume)</li> <li>Water Shuce</li> <li>Casing Repair</li> <li>Deve Construction</li> <li>Recomplete</li> <li>Other</li> <li>Diffing Operation</li> </ul> <li>Tamporarily Abandon</li> <li>Diffing Operation</li> <li>Convert to Injection</li> <li>Plug Back</li> <li>Water Disposed</li> <li>The proposed or Completed Operation (learly state all perinert details, including estimated starting date of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers infacts and new vertical depth of all perinert makers in all perinert makers infacts and perintermati</li>  | 12. CHECK APPI  | ROPRIATE BOX(ES) TO   | DINDICATE NA FREEF  | NOTICE, RE                               | PORT, OR OTHE                                    | R DATA                                    |
| Notice of Intent <ul> <li>Acidize</li> <li>Deepen</li> <li>Production (Start/Resume)</li> <li>Water Shurd-</li> <li>Chaing Repair</li> <li>Chaing Repair</li> <li>Chaing Plans</li> <li>Plug and Abandon</li> <li>Temporarily Abandon</li> </ul> <li>The scribe Proposed or Completed Operation (clearly state all perturbed definition (clearly state) and the operator have determined that the site is ready for final inspection.</li> <li>Clear State (clearly state) (clear</li>  | Notice of Intent       Acidize       Deepen       Production (Start/Resume)       Water Shucc         Subsequent Report       Casing Repair       New Construction       Recomplete       Other Diriting Operation         1       Interview Proposed of Completed Operations (Clearly size all perioding size and abandon completed, and the work will be perioding yie and Abandon completed, and or any proposed work and provinent duration duration and the book will be perioding yie and with BLMBLA. Heaping and the of any proposed work and provinent duration duration duration duration and the book will be perioding yie and with BLMBLA. Heaping and the of any proposed work and provinent duration duration duration and the book will be perioding yie and with BLMBLA. Heaping and baseguent reports all be filed duration and the work will be perioding yie and and which all perioding relaminants, have been completed. The analysis and and which Notices shall be filed duration and the book will be added and shall are clean and shall be filed duration and the set on and yie and and which all perioding relaminants and the operator is all be filed duration and the set on and yie and and which all perioding relaminants and the operator is all be filed duration and the set on and for many periodic duration and the set on and the operator is an and endernet to our approved APD for this well to reflect changes in casing design, well number, TVD and our intention to use a multi-bowl wellhead system in the drilling of the well.         14. 1 hereby certify that the foregoing is true and correct.       Electronic Submission #338410 verified by the BLM Well Information System For GOG RESOURCES, MC, sent to the Hobbs Committee of the AFMS for proceessing by KENNET HEENNEK (Kon 0800/12016 0)         Name (Printed/Typed)  | TYPE OF SUBMISSION  |   | TYPE OF   | F ACTION                                 | and the second                                   | 1   |
| Subsequent Report         Alter Casing         Fracture Treat         Relamation         Well Integrit           Subsequent Report         Casing Repair         New Construction         Recomplete         Other           Final Abandonment Notice         Casing Plans         Plug and Abandon         Temporarily Abandon         Diffing Operat           Subsequent Report         Casing Plans         Plug and Abandon         Temporarily Abandon         Diffing Operat           Subsequent Report         Casing Plans         Plug and Abandon         Temporarily Abandon         Diffing Operat           Subsequent Report         Casing Plans         Plug and Abandon         Ret Casing Lepton         Diffing Operat           Subsequent Report         Casing Plans         Plug and Abandon         Ret Casing Lepton         Diffing Operat           Subsequent Report         Casing Plans         Plug and Abandon         Ret Casing Lepton         Diffing Operat           Subsequent Report         Casing Plans         Plug and Abandon         Ret Casing Lepton         Diffing Operat           Subsequent Report         Ret Casing Lepton         Ret Casing Lepton         Ret Casing Lepton         Ret Casing Lepton         Diffing Operat           Ret Casing Lepton         Ret Casing Lepton         Ret Casing Lepton         Ret Casing Lepton   | Subsequent Report       Casing Repir       New Construction       Recomplete       Other Casing Repir         Final Abandonment Notice       Convert to Injection       Plug and Abandon       Temporarily Abandon         To Subsequent Report       Convert to Injection       Plug and Abandon       Temporarily Abandon         To Subsequent Notice       Convert to Injection       Plug Back       Water Disposit         To Subsequent Notice       Convert to Injection       Plug and Abandon       Temporarily Abandon         To Subsequent Notice       The performed or provide the Bood Mader studies during estimated starting date of any verticed abaceguent reports aball be filed with 30 days of fallowing estimated starting date of any verticed abaceguent reports aball be filed with 30 days of fallowing estimated starting date of any verticed abaceguent reports aball be filed with 30 days of fallowing estimated match abandon memory in the onitice on provide the Bood Mader aball be filed with 30 days of fallowing estimated match abandon date on the onitice on provide the Bood Mader aball be filed with 30 days of fallowing estimated match abandon date on the onitice on the onithe onitice on the onitice on the onitice on the onitic  | Notice of Intent  | Acidize   | Deepen  | Production                               | on (Start/Resume)                                | □ Water Shut-Of                           |
| <ul> <li>Casing Repair</li> <li>Casing Repair</li></ul>  | Image:                           | Subsequent Report   | Alter Casing  | Fracture Treat  | Reclama                                  | tion   | □ Well Integrity                          |
| Industry databases           Industry databases             Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases                 Industry databases           Industry databases               Industry databases           Industry databases             Industry databases  | I' find Adandomment Notice               Change raiss              Program A Dandom   | Subsequent Report   | Casing Repair   | New Construction  |  | lete   | Other Drilling Operatio                   |
| 1       Operation of the proposed of Completed Operation Clearly state and the private data stating date of any proposed work and approximate duration there of the proposal is to deepen directionally or recomplete horizontally, give substrates locations and measured are vertical depths of all pertinent markers and zoo to the proposal is to deepen directionally or recomplete horizontally, give substrates locations and measured are vertical depths of all pertinent markers and zoo to the provide the Bod Mode VMA. Required Subsequent Proposal stall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via duration or recompletion and new interval, a Form 3160-4 shall be filed via due operation as easing design, well number, TVD and our intention to use a multi-boow lwellhead system in the drilling of the well.  | 13. Describe Proposed or Completed Operation (clearly state all periodic difficult estimation of the periodic or proceeding of the periodic or provide the Bod No. on file with BLMMAR. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a form 31604 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a form 31604 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a form 31604 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a form 31604 shall be filed with the vertice of the period with the vertice of the period multiple completion or recompletion in a new interval, a form 31604 shall be filed with the vertice of the vertice of the vertice of the period with the vertice of the period with the vertice of the vertice o                           | Final Abandonment Notice  | Change Plans  | Plug and Abandon  | U Tempora                                | irily Abandon                                    |   |
| TVD change from 11260 (16099 MD) TO: 11360 TVD, 16198 MD. (Wolfcamp)       APPROVAL BY STATE         Detailed information attached regarding the casing design and multi-bowl WH system.       Image: Comparison of the system of the syste   | Approved By       Max Proved By         Approved By       Title         Conditions of approval, if any, are attached. Approval of this notice does not warrant or credition attached operations have it a crime for any person knowingly and willfully to make to any department or agency of the United States ary fake, factitions or fraudulent statements or representations as to any matter within its jurisdiction.  | the well.<br>Name Change from Della 29 I  | Fed 601H TO: Della 29 F   | Fed 701H  | SU                                       | BJECT TO LI                                      | KE  |
| 14. 1 hereby certify that the foregoing is true and correct.         14. 1 hereby certify that the foregoing is true and correct.         Electronic Submission #338410 verified by the BLM Well Information System         For EOG RESOURCES, INC., sent to the Hobbs         Committed to AFMSS for processing by KENNETH RENNICK on 06/01/2016 ()         Name (Printed/Typed)         Stignature       (Electronic Submission)         Date       05/05/2016         Tritle Processing to KENNETH RENNICK on 06/01/2016 ()         Name (Printed/Typed)       STAN WAGNER         Date       05/05/2016         Tritle REQULATORY ANALYST         Option       Date         Option       Option         Date       Option         Option       Date         Option       Date         Option       Date         Option       Date         Option       Date         Option       Date   | 14. 1 hereby certify that the foregoing is true and correct.<br>Electronic Submission #338410 verified by the BLM Well Information System<br>For EOG RESOURCES, N.C., sent to the Hobbs<br>Committed to AFMSS for processing by KENNETH RENNICK on 06/01/2016 ()         Name (Printed Typed)       STAN WAGNER         Signature       (Electronic Submission)         Date       05/05/2016         Title REGULATORY ANALYST         Signature       (Electronic Submission)         Date 05/05/2016         Title REGULATORY ANALYST         Odd to be only and the subject lease which would entitle the applicant holes regist in the subject lease which would entitle the applicant to conduct operations thereon.         Title REGULATORY ANALYST         Office Wather the applicant to conduct operations thereon.         Title REGULATORY ANALYST         Office Wather the applicant to conduct operations thereon.         Title REGULATORY ANALYST         Office Wather the applicant to conduct operations thereon.         Title REGULATORY ANALYST         Office Wather the applicant to conduct operations thereon.         Title REGULATORY ANALYST         Office Wather the applicant to conduct operations thereon.         Office Wather the applicant to conduct operations thereon.         The  | TVD change from 11260' (160   | 11360' TO: 11360' TV  | D 16198' MD (Wolfcamp)  | AP                                       | PROVAL BY  | STATE                                     |
| 14. 1 hereby certify that the foregoing is true and correct.<br>Electronic Submission #338410 verified by the BLM Well Information System<br>For EOG RESOURCES, INC., sent to the Hobbs<br>Committed to AFMSS for processing by KENNETH RENNICK on 06/01/2016 ()         Name (Printed/Typed)       STAN WAGNER         Signature       (Electronic Submission)         Date       05/05/2016         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Aud         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entifie the applicant to conduct operations thereon.       Title         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **       Cols   | 14. 1 hereby certify that the foregoing is true and correct.<br>Electronic Submission #338410 verified by the BLM Well Information System<br>FOR EOG RESOURCES, INC., sent to the Hobbs<br>Committed to AFMSS for processing by KENNETH RENNICK on 06/01/2016 ()<br>Name (Printed/Typed) STAN WAGNER         Name (Printed/Typed)       STAN WAGNER         Signature       (Electronic Submission)         Date       05/05/2016         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Main         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant to conduct operations thereon.       Title         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       Title 18 U.S.C. Submittee ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **   | Detailed information attached   | regarding the casing des  | ign and multi-bowl WH system  | n.                                       |  |   |
| Name (Printed/Typed)       STAN WAGNER       Title       REGULATORY ANALYST         Signature       (Electronic Submission)       Date       05/05/2016         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       June       Date       0/2         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Title       Performed June       Date       1/2         The 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       Mate       1/2         ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **       Mate  | Name (Printed/Typed)       STAN WAGNER       Title       REGULATORY ANALYST         Signature       (Electronic Submission)       Date       05/05/2016         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Approved By       Date       0/2/2/2         Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Title       Date       0/2/2/2         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **       Title **   | 14. I hereby certify that the foregoing is  | true and correct.<br>Electronic Submission #<br>For EOG F<br>Committed to AFMSS for               | 338410 verified by the BLM Wel<br>RESOURCES, INC., sent to the<br>processing by KENNETH REN | II Information<br>Hobbs<br>NICK on 06/01 | System<br>1/2016 ()                              |   |
| Signature       Date       05/05/2016         Date       05/05/2016         ITIES SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Itile       Date       0/2         Conditions of approval, if any, are attached. Approval of this notice does not warrant or which would entitle the applicant to conduct operations thereon.       Itile       Date       0/2         Office       Office       Office       Office       Office       Office         The 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       The OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **       The States  | Signature       Date       05/05/2016         DIME 05/05/2016         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Approved By       Date       0/2         Conditions of approval, if any, are attached. Approval of this notice does not warrant or extributed to conduct operations thereon.       Title       Performance       Date       0/2         Conditions of approval, if any, are attached. Approval of this notice does not warrant or extributed to conduct operations thereon.       Title       Performance       Date       0/2         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.       Title 18 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.         * OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **   | Name (Printed/Typed) STAN WA  | GNER  | Title REGUL   | ATORY ANA                                | ALYST  | 1   |
| THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Approved By       Itile       Date   | THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       And And       Title       Particle P  | Signature (Electronic S   | Submission)   | Date 05/05/2  | 016                                      |  |   |
| Approved By Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon Office   | Approved By   |   | THIS SPACE FO   | DR FEDERAL OR STATE   | OFFICE US                                | SE   |   |
| Condutions or approval of any, are anached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable tile to those rights in the subject lease which would entitle the applicant to conduct operations thereon.<br>Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.<br>** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **  | Conditions or approval fit any, are attached. Approval of this holice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Office                                     | Approved By   | len   | Title Part  | a eyen                                   | Engineer   | Date 2                                    |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **   | Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.         ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **   | certify that the applicant holds legal or equivalent would entitle the applicant to condu | d. Approval of this notice does<br>itable title to those rights in the<br>ict operations thereon. | e subject lease Office  | stone =                                  | Lela off   | Tico                                      |
| ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **  | ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **  | Title 18 U.S.C. Section 1001 and Title 43<br>States any false, fictitious or fraudulent   | U.S.C. Section 1212, make it a statements or representations as                                   | crime for any person knowingly and<br>to any matter within its jurisdiction.                | willfully to ma                          | ke to any department or                          | agency of the United                      |
|   |   | ** OPERAT   | OR-SUBMITTED ** O   | PERATOR-SUBMITTED *   | * OPERAT                                 | OR-SUBMITTED                                     | ** KZ                                     |
|   |   |   |   |   |  |  |   |



# NOI Sundry - Della 29 Fed 701H & 602H

Rennick, Kenneth <krennick@blm.gov> To: Stan Wagner <Stan\_Wagner@eogresources.com> Cc: Edward Fernandez <efernand@blm.gov> Wed, Jun 1, 2016 at 10:27 AM

Hello Again Mr. Stan Wagner,

I am reviewing the Della 29 Fed 602H, and it seems that the directional survey slightly changes from the original APD. The sundry has the measured depth of the bottom hole being 16,093, which is different from the original 16,024 of the APD.

So if you may send in an updated directional survey for the 602H that will be greatly appreciated.

Also I assume that the 7-5/8th intermediate casing will be kept fluid filled for both the 701H and 602H since I am seeing the similar collapse situation as with the Hawk wells.

Thank You in Advance!!

Kenny Rennick [Quoted text hidden]

Kenneth Rennick

Petroleum Engineer Bureau of Land Management Carlsbad Field Office (575) 234-5964 krennick@blm.gov



# NOI Sundry - Della 29 Fed 701H & 602H

**Stan Wagner** <Stan\_Wagner@eogresources.com> To: "Rennick, Kenneth" <krennick@blm.gov> Wed, Jun 1, 2016 at 12:17 PM

Yes on the casing.

From: Rennick, Kenneth [mailto:krennick@blm.gov]
Sent: Wednesday, June 01, 2016 11:28 AM
To: Stan Wagner
Cc: Edward Fernandez
Subject: Re: NOI Sundry - Della 29 Fed 701H & 602H

\*\* External email. Use caution.\*\*

[Quoted text hidden]

## 1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

# 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| Rustler                          | 1,600'  |
|----------------------------------|---------|
| Top of Salt                      | 1,984'  |
| Base of Salt / Top Anhydrite     | 3,500'  |
| Base Anhydrite                   | 3,736'  |
| Yates                            | 3,736'  |
| Capitan                          | 4,060'  |
| Cherry Canyon                    | 5,550'  |
| Brushy Canyon                    | 7,100'  |
| Bone Spring Lime                 | 8,610'  |
| 1 <sup>st</sup> Bone Spring Sand | 9,809'  |
| 2 <sup>nd</sup> Bone Spring Lime | 10,033' |
| 2 <sup>nd</sup> Bone Spring Sand | 10,239' |
| 3rd Bone Spring Carb             | 10,699' |
| 3rd Bone Spring Sand             | 10,982' |
| Wolfcamp                         | 11,300' |
| TD                               | 11,360' |

# 3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

| Upper Permian Sands              | 0-400'  | Fresh Water |
|----------------------------------|---------|-------------|
| Cherry Canyon                    | 5,550'  | Oil         |
| Brushy Canyon                    | 7,030'  | Oil         |
| Bone Spring Lime                 | 8,610'  | Oil         |
| 1st Bone Spring Sand             | 9,809'  | Oil         |
| 2 <sup>nd</sup> Bone Spring Lime | 10,033' | Oil         |
| 2 <sup>nd</sup> Bone Spring Sand | 10,239' | Oil         |
| 3rd Bone Spring Carb             | 10,699' | Oil         |
| 3rd Bone Spring Sand             | 10,982  | Oil         |
| Wolfcamp                         | 11,300' | Oil         |

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 10.75" casing at 1,625' and circulating cement back to surface.

# 4. CASING PROGRAM - NEW See CON

| Hole<br>Size | Interval         | Csg<br>OD | Weight | Grade   | Conn     | DF <sub>min</sub><br>Collapse | DF <sub>min</sub><br>Burst | DF <sub>min</sub><br>Tension |
|--------------|------------------|-----------|--------|---------|----------|-------------------------------|----------------------------|------------------------------|
| 14.75"       | 0-1,625'         | 10.75"    | 40.5#  | J55     | STC      | 1.125                         | 1.25                       | 1.60                         |
| 9.875"       | 0-8,000'         | 7.625"    | 29.7#  | HCP-110 | LTC      | 1.125                         | 1.25                       | 1.60                         |
| 8.75"        | 8,000' - 10,900' | 7.625"    | 29.7#  | HCP-110 | Ultra FJ | 1.125                         | 1.25                       | 1.60                         |
| 6.75"        | 0'-16,198'       | 5.5"      | 23#    | HCP-110 | ULT SFII | 1.125                         | 1.25                       | 1.60                         |

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

# **Cementing Program:**

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|   | Depth             | No.<br>Sacks | Wt.<br>ppg | Yld<br>Ft <sup>3</sup> /ft | Mix<br>Water<br>Gal/sk | Slurry Description  |
|---|-------------------|--------------|------------|----------------------------|------------------------|---|
|   | 10-3/4"<br>1,625  | 700          | 13.5       | 1.73                       | 9.13                   | Class C + 4.0% Bentonite + $0.6\%$ CD- $32 + 0.5\%$ CaCl <sub>2</sub> + $0.25$<br>lb/sk Cello-Flake (TOC @ Surface) |
|   |                   | 300          | 14.8       | 1.34                       | 6.34                   | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%<br>Sodium Metasilicate   |
|   | 7-5/8"            | 780          | 9.0        | 2.86                       | 11.14                  | D195 LiteFill (Beads) + 0.50% Retarder + D046 Antifoam  |
|   | 10,900'           | 525          | 13.5       | 1.55                       | 7.47                   | 50:50 Class H:Poz + 0.10% D065 + 0.20% D112 + 10% D154<br>+ 2.0% D174 + 0.40% D800                                  |
| 4 | 5-1/2"<br>16,198' | 575          | 14.1       | 1.26                       | 5.80                   | Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17  |

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

Production Casing Cement should tie-back to Cover at least 50 feet above Capitan Reet, approximately 4,000

# 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/250 psig and the annular preventer to 5000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 5000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

# 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

| Depth             | Туре        | Weight (ppg) | Viscosity | Water Loss |
|-------------------|-------------|--------------|-----------|------------|
| 0 - 1,625'        | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,625' - 10,900'  | Brine       | 8.8-10.0     | 28-34     | N/c        |
| 10,837' - 16,198' | Oil Base    | 10.0-11.5    | 58-68     | 3 - 6      |
| Lateral           |             |              |           |            |

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

## 8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL Will be run in cased hole during completions phase of operations.

# 9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 170 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 6793 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

#### **10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:**

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

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# 11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Prior to running the intermediate casing, the rams will be changed out to accommodate the 7-5/8" casing. The bonnet seals will be tested to 1500 psi. After installing the intermediate casing the casing rams will be removed and replaced with variable bore rams. The remaining BOPE will not be retested after installing the intermediate casing.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

Wellhead drawing Attached.

# Della 29 Fed #701H

250' FSL 1270' FEL Section 29 T-20-S, R-34-E Lea County, New Mexico Proposed Wellbore Revised 5/4/16 API: 30-025-43053

KB: 3,744' GL: 3,714'



District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax. (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Sante Fe, NM 87505

Phone. (505) 476-3460 Fax (505) 476-3462

160.00

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Sante Fe, NM 87505 FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

|                               |                                    | W                | ELL LO           | CATION    | AND ACR                             | EAGE DEDIC.               | ATION PLAT          |                        |                    |
|-------------------------------|------------------------------------|------------------|------------------|-----------|-------------------------------------|---------------------------|---------------------|------------------------|--------------------|
| 30-0                          | <sup>1</sup> API Number<br>)25-430 | 53               | 9                | Pool Code | , 1                                 | Wildcat Wolf              | Camp Oil 2          | 03429 P; 0             | NOLFCAMO           |
| <sup>4</sup> Property<br>3159 | Code<br>162                        |                  |                  | /         | <sup>SProperty N</sup><br>DELLA 29  | ame<br>9 FED              |                     | °we<br>#               | ell Number<br>701H |
| <sup>7</sup> ogrid<br>7377    | No.                                |                  |                  | EO        | <sup>8</sup> Operator N<br>G RESOUR | ame<br>CES, INC.          |                     | °1<br>3                | Elevation<br>8714' |
|                               |                                    |                  |                  |           | <sup>10</sup> Surface Lo            | ocation                   |                     |                        |                    |
| UL or lot no.<br>P            | Section<br>29                      | Township<br>20-S | Range<br>34–E    | Lot Idn   | Feet from the 250'                  | North/South line<br>SOUTH | Feet from the 1270' | East/West line<br>EAST | County<br>LEA      |
| UL or lot no.<br>A            | Section<br>29                      | Township<br>20–S | Range<br>34–E    | Lot Idn   | Feet from the 230'                  | North/South line          | Feet from the 330'  | East/West line<br>EAST | County<br>LEA      |
| 12 Dedicated Acres            | 13 Joint or                        |                  | nsolidation Code | 15 Order  | r No                                |                           |                     |                        |                    |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





AMENDED PROPOSED DOS



# **EOG Resources - Midland**

Lea County, NM (NAD 27 NME) Della 29 Fed #701H

OH

Plan: Plan #0.4

# **Standard Planning Report**

04 May, 2016

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| Oeog | resources |

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# EOG Resources, Inc. Planning Report

| Database:<br>Company:<br>Project:<br>Site:<br>Well:<br>Wellbore: | EDM 50<br>EOG Re<br>Lea Cou<br>Della 29<br>#701H<br>OH | 00.1 Single User (<br>sources - Midland<br>nty, NM (NAD 27<br>Fed | Db<br>I<br>NME)   |               | Local Co-o<br>TVD Refer<br>MD Refere<br>North Refe<br>Survey Ca  | ordinate Refer<br>ence:<br>nce:<br>erence:<br>Iculation Met | rence:<br>hod:       | Well #701H<br>KB = 25 @ 3739.<br>KB = 25 @ 3739.<br>Grid<br>Minimum Curvatu | Ousft<br>Ousft<br>Ire |                        |
|--|--|---|-------------------|---------------|--|---|----------------------|---|-----------------------|------------------------|
| Design:  | Plan #0.   | 4   |                   |               |  |   | and statistical line | Martine Part Contractor   |                       |                        |
| Project  | Lea Cour   | ty, NM (NAD 27 M  | MME)              |               |  |   |                      |   |                       |                        |
| Map System:<br>Geo Datum:<br>Map Zone:                           | US State F<br>NAD 1927<br>New Mexic                    | Plane 1927 (Exact<br>(NADCON CONU<br>to East 3001                 | solution)<br>IS)  | 5             | System Dat   | um:   | М                    | ean Sea Level   |                       |                        |
| Site   | Della 29   | Fed   |                   |               | 1997 - 19 |   |                      |   |                       |                        |
| Site Position:   |  |   | Northing:         |               | 560,   | 053.00 usft   | Latitude:            |   |                       | 32° 32' 14.721 N       |
| From:  | Map  |   | Easting:          |               | 732,   | 943.00 usft   | Longitude:           |   |                       | 103° 34' 38.852 W      |
| Position Uncertainty:  |  | 0.0 usf   | Slot Radiu        | us:           |  | 13-3/16 "   | Grid Converg         | gence:  |                       | 0.41 °                 |
| Well   | #701H  |   |                   |               |  |   |                      |   |                       |                        |
| Well Position  | +N/-S  | 0.0 us  | ft Northi         | ing:          |  | 560,053.00  | ) usft Lat           | titude:   |                       | 32° 32' 14.721 N       |
|  | +E/-W  | 0.0 us  | ft Eastin         | ig:           |  | 732.943.00  | ) usft Lo            | ngitude:  |                       | 103° 34' 38.852 W      |
| Position Uncertainty   |  | 0.0 us  | ft Wellhe         | ead Elevation |  | 0.0   | ) usft Gr            | ound Level:   |                       | 3,714.0 usft           |
| Magnetics  | Mode   | IGRF2015  | Sample Da         | ate<br>7/2016 | Declina<br>(°)   | <b>tion</b><br>7.08   | Dip                  | Angle<br>(*)<br>60.36   | Field St<br>(n        | rength<br>T)<br>48,216 |
| Design   | Plan #0.4  |   |                   |               |  |   | 1945 - 1945 - 194    | 1917 CONSTRUCTION   | enter a mandair       | 12.52 A. 29            |
| Audit Notes:   |  |   |                   |               |  |   |                      |   |                       |                        |
| Version:   |  |   | Phase:            | PLA           | N  | Tie   | e On Depth:          | C   | 0.0                   |                        |
| Vertical Section:  |  | Depth   | From (TVD)        |               | +N/-S  | +E  | E/-W                 | Dire  | ction                 |                        |
|  |  |   | (usft)            |               | (usft)   | (u  | isft)                | (   | 59                    |                        |
|  |  |   | 0.0               |               | 0.0  |   | 0.0                  | 10  | .56                   |                        |
| Plan Sections  | The second state                                       |   | som strict Market |               |  | Superior Metalation   |                      |   |                       |                        |
| Measured   |  | Ver   | tical             |               |  | Dogleg  | Build                | Turn  |                       |                        |
| Depth Inclin<br>(usft)   | nation /   | Azimuth De  | epth -<br>isft) ( | N/-S          | +E/-W<br>(usft)  | Rate<br>(°/100usft)   | Rate<br>(°/100usft)  | Rate<br>(°/100usft)   | TFO<br>(°)            | Target                 |
|  | 0.00   | 0.00  | 0.0               | 0.0           | 0.0  | 0.00  | 0.00                 | 0.00  | 0.00                  | and the second second  |
| 0.0  | 0.00   | 0.00  | 4 500 0           | 0.0           | 0.0  | 0.00  | 0.00                 | 0.00  | 0.00                  |                        |
| 4,500.0  | 0.00   | 0.00  | 4,500.0           | 0.0           | 0.0  | 0.00  | 0.00                 | 0.00  | 102.15                |                        |
| 5,355.0  | 8.55   | 103.15  | 0,351.8           | -14.5         | 62.0   | 1.00  | 1.00                 | 0.00  | 103.15                |                        |
| 10,837.3   | 8.55   | 103.15 1  | 0,773.2           | -200.0        | 855.7  | 0.00  | 0.00                 | 0.00  | 102.40                |                        |
| 11.757.4   | 90.00  | 359.52 1  | 1,360.0           | 373.4         | 936.6  | 10.00   | 8.85                 | -11.26  | -103.49               |                        |

16,198.2

90.00 359.52 11.360.0

4,814.0

899.0

0.00

0.00

0.00

0.00 PBHL(Della 29 Fed #



Planning Report

Database: Company: Project: Site: Well:

Wellbore:

Design:

EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME) Della 29 Fed #701H OH Plan #0.4

#### Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well #701H KB = 25 @ 3739.0usft KB = 25 @ 3739.0usft Grid Minimum Curvature

| Measure | bed    |       |         | Vertical |        |        | Vertical | Dogleg      | Build       | Turn        |
|---------|--------|-------|---------|----------|--------|--------|----------|-------------|-------------|-------------|
| Depth   | Inclin | ation | Azimuth | Depth    | +N/-S  | +E/-W  | Section  | Rate        | Rate        | Rate        |
| (usft)  | ('     | °)    | (°)     | (usft)   | (usft) | (usft) | (usft)   | (°/100usft) | (°/100usft) | (°/100usft) |
|         | 0.0    | 0.00  | 0.00    | 0.0      | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 10      | 0.0    | 0.00  | 0.00    | 100.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 20      | 0.0    | 0.00  | 0.00    | 200.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 30      | 0.0    | 0.00  | 0.00    | 300.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 40      | 0.00   | 0.00  | 0.00    | 400.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 50      | 0.00   | 0.00  | 0.00    | 500.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 60      | 0.0    | 0.00  | 0.00    | 600.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 70      | 0.0    | 0.00  | 0.00    | 700.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 80      | 0.0    | 0.00  | 0.00    | 800.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 90      | 0.0    | 0.00  | 0.00    | 900.0    | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1.00    | 0.0    | 0.00  | 0.00    | 1 000 0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1.10    | 0.0    | 0.00  | 0.00    | 1 100 0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,10    | 0.0    | 0.00  | 0.00    | 1 200 0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,20    | 0.0    | 0.00  | 0.00    | 1,200.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,30    | 00.0   | 0.00  | 0.00    | 1,300.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,40    | 0.0    | 0.00  | 0.00    | 1,400.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,50    | 0.0    | 0.00  | 0.00    | 1,500.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,60    | 0.0    | 0.00  | 0.00    | 1,600.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,70    | 0.0    | 0.00  | 0.00    | 1,700.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,80    | 0.0    | 0.00  | 0.00    | 1,800.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,90    | 0.0    | 0.00  | 0.00    | 1,900.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2,00    | 0.0    | 0.00  | 0.00    | 2,000.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2.10    | 0.0    | 0.00  | 0.00    | 2,100.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2.20    | 0.0    | 0.00  | 0.00    | 2.200.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2 30    | 0.0    | 0.00  | 0.00    | 2,300.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2.40    | 0.0    | 0.00  | 0.00    | 2,400.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2.50    | 0.00   | 0.00  | 0.00    | 2 500.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2.60    | 0.0    | 0.00  | 0.00    | 2,600.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2,00    | 0.0    | 0.00  | 0.00    | 2,000.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2,10    | 0.0    | 0.00  | 0.00    | 2,800.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2,00    | 0.0    | 0.00  | 0.00    | 2,000.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 2,00    |        | 0.00  | 0.00    | 2,000.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,00    | 00.0   | 0.00  | 0.00    | 3,000.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,10    | 00.0   | 0.00  | 0.00    | 3,100.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,20    | 0.0    | 0.00  | 0.00    | 3,200.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,30    | 0.0    | 0.00  | 0.00    | 3,300.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,40    | 0.0    | 0.00  | 0.00    | 3,400.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,50    | 0.0    | 0.00  | 0.00    | 3,500.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,60    | 0.0    | 0.00  | 0.00    | 3,600.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,70    | 0.0    | 0.00  | 0.00    | 3,700.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,80    | 0.0    | 0.00  | 0.00    | 3,800.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 3,90    | 0.0    | 0.00  | 0.00    | 3,900.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 4 00    | 0.00   | 0.00  | 0.00    | 4.000.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 4 10    | 0.0    | 0.00  | 0.00    | 4 100 0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 4 20    | 0.0    | 0.00  | 0.00    | 4 200 0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 4.30    | 0.0    | 0.00  | 0.00    | 4 300 0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 4.40    | 0.0    | 0.00  | 0.00    | 4,400.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 1,10    |        | 0.00  | 0.00    | 1.500.0  |        |        | 0.0      | 0.00        | 0.00        | 0.00        |
| 4,50    | 0.0    | 0.00  | 0.00    | 4,500.0  | 0.0    | 0.0    | 0.0      | 0.00        | 0.00        | 0.00        |
| 4,60    | 0.0    | 1.00  | 103.15  | 4,600.0  | -0.2   | 0.8    | 0.0      | 1.00        | 1.00        | 0.00        |
| 4,70    | 0.0    | 2.00  | 103.15  | 4,700.0  | -0.8   | 3.4    | -0.2     | 1.00        | 1.00        | 0.00        |
| 4,80    | 0.0    | 3.00  | 103.15  | 4,799.9  | -1.8   | 7.6    | -0.4     | 1.00        | 1.00        | 0.00        |
| 4,90    | 0.0    | 4.00  | 103.15  | 4,899.7  | -3.2   | 13.6   | -0.6     | 1.00        | 1.00        | 0.00        |
| 5,00    | 0.0    | 5.00  | 103.15  | 4,999.4  | -5.0   | 21.2   | -1.0     | 1.00        | 1.00        | 0.00        |
| 5,10    | 0.0    | 6.00  | 103.15  | 5,098.9  | -7.1   | 30.6   | -1.4     | 1.00        | 1.00        | 0.00        |
| 5.20    | 0.0    | 7.00  | 103.15  | 5,198.3  | -9.7   | 41.6   | -1.9     | 1.00        | 1.00        | 0.00        |
| 5,30    | 0.0    | 8.00  | 103.15  | 5,297.4  | -12.7  | 54.3   | -2.5     | 1.00        | 1.00        | 0.00        |

5/4/2016 2:25:18PM

COMPASS 5000.1 Build 78



Planning Report

Database: Company: Project: Site: Well: Wellbore:

Design:

EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME) Della 29 Fed #701H OH Plan #0.4

#### Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method; Well #701H KB = 25 @ 3739.0usft KB = 25 @ 3739.0usft Grid Minimum Curvature

| Measured<br>Depth | Inclination | Azimuth | Vertical<br>Depth | +N/-S  | +E/-W  | Vertical<br>Section | Dogleg<br>Rate | Build<br>Rate | Turn<br>Rate |
|-------------------|-------------|---------|-------------------|--------|--------|---------------------|----------------|---------------|--------------|
| (usft)            | (°)         | (°)     | (usft)            | (usft) | (usft) | (usft)              | (°/100usft)    | (°/100usft)   | (°/100usft)  |
| 5,355.0           | 8.55        | 103.15  | 5,351.8           | -14.5  | 62.0   | -2.9                | 1.00           | 1.00          | 0.00         |
| 5,400.0           | 8.55        | 103.15  | 5,396.3           | -16.0  | 68.5   | -3.2                | 0.00           | 0.00          | 0.00         |
| 5,500,0           | 8,55        | 103,15  | 5,495.2           | -19.4  | 83.0   | -3.8                | 0.00           | 0.00          | 0.00         |
| 5,600,0           | 8,55        | 103.15  | 5,594.1           | -22.8  | 97.5   | -4.5                | 0.00           | 0.00          | 0.00         |
| 5,700.0           | 8.55        | 103.15  | 5,693,0           | -26.2  | 112.0  | -5.2                | 0.00           | 0.00          | 0.00         |
| 5,800.0           | 8.55        | 103.15  | 5,791.9           | -29.5  | 126.4  | -5.8                | 0.00           | 0.00          | 0.00         |
| 5,900.0           | 8.55        | 103.15  | 5,890.8           | -32.9  | 140.9  | -6.5                | 0.00           | 0.00          | 0.00         |
| 6,000.0           | 8.55        | 103.15  | 5,989.7           | -36.3  | 155.4  | -7.2                | 0.00           | 0.00          | 0.00         |
| 6,100.0           | 8.55        | 103.15  | 6,088.6           | -39.7  | 169.9  | -7.8                | 0.00           | 0.00          | 0.00         |
| 6,200.0           | 8.55        | 103.15  | 6,187.4           | -43.1  | 184.3  | -8.5                | 0.00           | 0.00          | 0.00         |
| 6,300.0           | 8.55        | 103.15  | 6,286.3           | -46.5  | 198.8  | -9.2                | 0.00           | 0.00          | 0.00         |
| 6,400.0           | 8.55        | 103.15  | 6,385.2           | -49.8  | 213.3  | -9.8                | 0.00           | 0.00          | 0.00         |
| 6,500.0           | 8.55        | 103,15  | 6,484,1           | -53.2  | 227.8  | -10.5               | 0.00           | 0.00          | 0.00         |
| 6,600.0           | 8.55        | 103.15  | 6,583.0           | -56.6  | 242.2  | -11.2               | 0.00           | 0.00          | 0.00         |
| 6,700,0           | 8.55        | 103.15  | 6,681,9           | -60.0  | 256.7  | -11.8               | 0.00           | 0.00          | 0.00         |
| 6,800.0           | 8.55        | 103.15  | 6,780.8           | -63.4  | 271.2  | -12.5               | 0.00           | 0.00          | 0.00         |
| 6,900.0           | 8.55        | 103,15  | 6.879.7           | -66.8  | 285.7  | -13.2               | 0.00           | 0.00          | 0.00         |
| 7 000 0           | 8.55        | 103 15  | 6 978.5           | -70.1  | 300.1  | -13.8               | 0.00           | 0.00          | 0.00         |
| 7 100 0           | 8.55        | 103.15  | 7.077.4           | -73.5  | 314.6  | -14.5               | 0.00           | 0.00          | 0.00         |
| 7 200 0           | 8.55        | 103.15  | 7,176,3           | -76.9  | 329.1  | -15.2               | 0.00           | 0.00          | 0.00         |
| 7,300.0           | 8.55        | 103.15  | 7,275.2           | -80.3  | 343.6  | -15.9               | 0.00           | 0.00          | 0.00         |
| 7 400 0           | 8 55        | 103 15  | 7 374 1           | -83.7  | 358.1  | -16.5               | 0.00           | 0.00          | 0.00         |
| 7 500 0           | 8.55        | 103 15  | 7 473 0           | -87.1  | 372.5  | -17.2               | 0.00           | 0.00          | 0.00         |
| 7 600 0           | 8.55        | 103 15  | 7 571 9           | -90.4  | 387.0  | -17.9               | 0.00           | 0.00          | 0.00         |
| 7 700 0           | 8.55        | 103.15  | 7 670.8           | -93.8  | 401.5  | -18.5               | 0.00           | 0.00          | 0.00         |
| 7,800.0           | 8.55        | 103.15  | 7,769.7           | -97.2  | 416.0  | -19.2               | 0.00           | 0.00          | 0.00         |
| 7 900 0           | 8.55        | 103 15  | 7.868.5           | -100.6 | 430.4  | -19.9               | 0.00           | 0.00          | 0.00         |
| 8 000 0           | 8.55        | 103 15  | 7 967 4           | -104.0 | 444 9  | -20.5               | 0.00           | 0.00          | 0.00         |
| 8 100 0           | 8.55        | 103 15  | 8 066 3           | -107.4 | 459.4  | -21.2               | 0.00           | 0.00          | 0.00         |
| 8 200 0           | 8.55        | 103 15  | 8 165 2           | -110 7 | 473.9  | -21.9               | 0.00           | 0.00          | 0.00         |
| 8,300.0           | 8.55        | 103.15  | 8,264.1           | -114.1 | 488.3  | -22.5               | 0.00           | 0.00          | 0.00         |
| 8 400 0           | 8 55        | 103 15  | 8 363 0           | -117.5 | 502.8  | -23.2               | 0.00           | 0.00          | 0.00         |
| 8,500,0           | 8 55        | 103.15  | 8 461 9           | -120.9 | 517.3  | -23.9               | 0.00           | 0.00          | 0.00         |
| 8 600 0           | 8 55        | 103.15  | 8 560 8           | -124 3 | 531.8  | -24.5               | 0.00           | 0.00          | 0.00         |
| 8 700 0           | 8.55        | 103 15  | 8 659 7           | -127.6 | 546.3  | -25.2               | 0.00           | 0.00          | 0.00         |
| 8,800.0           | 8.55        | 103.15  | 8,758.5           | -131.0 | 560.7  | -25.9               | 0.00           | 0.00          | 0.00         |
| 8 900 0           | 8 55        | 103.15  | 8.857.4           | -134.4 | 575.2  | -26.5               | 0.00           | 0.00          | 0.00         |
| 9,000,0           | 8.55        | 103.15  | 8,956,3           | -137.8 | 589.7  | -27.2               | 0.00           | 0.00          | 0.00         |
| 9 100 0           | 8.55        | 103.15  | 9.055.2           | -141.2 | 604.2  | -27.9               | 0.00           | 0.00          | 0.00         |
| 9 200 0           | 8.55        | 103 15  | 9 154 1           | -144.6 | 618.6  | -28.5               | 0.00           | 0.00          | 0.00         |
| 9,300.0           | 8.55        | 103.15  | 9,253.0           | -147.9 | 633.1  | -29.2               | 0.00           | 0.00          | 0.00         |
| 9 400.0           | 8.55        | 103.15  | 9.351.9           | -151.3 | 647.6  | -29.9               | 0.00           | 0.00          | 0.00         |
| 9,500.0           | 8.55        | 103.15  | 9,450,8           | -154.7 | 662.1  | -30.5               | 0.00           | 0.00          | 0.00         |
| 9 600 0           | 8.55        | 103.15  | 9 549.7           | -158.1 | 676.5  | -31.2               | 0.00           | 0.00          | 0.00         |
| 9 700.0           | 8.55        | 103.15  | 9.648.5           | -161.5 | 691.0  | -31.9               | 0.00           | 0.00          | 0.00         |
| 9 800 0           | 8 55        | 103.15  | 9.747.4           | -164.9 | 705.5  | -32.5               | 0.00           | 0.00          | 0.00         |
| 9 900 0           | 8 55        | 103 15  | 9,846.3           | -168.2 | 720.0  | -33.2               | 0.00           | 0.00          | 0.00         |
| 10,000,0          | 8 55        | 103 15  | 9,945,2           | -171.6 | 734.5  | -33.9               | 0.00           | 0.00          | 0.00         |
| 10 100 0          | 8 55        | 103 15  | 10 044 1          | -175.0 | 748 9  | -34 6               | 0.00           | 0.00          | 0.00         |
| 10,100.0          | 8.55        | 103.15  | 10 143 0          | -178.4 | 763.4  | -35.2               | 0.00           | 0.00          | 0.00         |
| 10.300.0          | 8.55        | 103.15  | 10,241.9          | -181.8 | 777.9  | -35.9               | 0.00           | 0.00          | 0.00         |
| 10,400.0          | 8.55        | 103.15  | 10,340.8          | -185.2 | 792.4  | -36.6               | 0.00           | 0.00          | 0.00         |
| 10,500.0          | 8.55        | 103.15  | 10,439.7          | -188.5 | 806.8  | -37.2               | 0.00           | 0.00          | 0.00         |
| 10,600.0          | 8.55        | 103.15  | 10,538.5          | -191.9 | 821.3  | -37.9               | 0.00           | 0.00          | 0.00         |

5/4/2016 2:25:18PM

COMPASS 5000.1 Build 78



#### Planning Report

Database: Company: Project:

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Site:

Well:

Wellbore:

Planned Survey

Design:

EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME) Della 29 Fed #701H OH Plan #0.4

#### Local Co-ordinate Reference: TVD Reference: **MD Reference:** North Reference: Survey Calculation Method:

Well #701H KB = 25 @ 3739.0usft KB = 25 @ 3739.0usft Grid Minimum Curvature

Vertical Vertical Build Measured Dogleg Turn Depth Depth Section Rate Rate Rate Inclination Azimuth +N/-S +E/-W (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (\*) (usft) (usft) 10,700.0 8.55 103.15 10,637.4 -195.3 835.8 -38.6 0.00 0.00 0.00 10,800.0 8.55 103.15 10,736.3 -198.7 850.3 -39.2 0.00 0.00 0.00 10,837.3 8.55 103.15 10,773.2 -200.0 855.7 -39.5 0.00 0.00 0.00 10,850.0 8.34 94.60 10,785.8 -200.2 857 5 -39.4 10.00 -1.61 -67.25 10,900,0 62.24 10.835.2 -198.6 864.7 -36.5 -64.72 9.33 10.00 1.98 10.950.0 12.42 41 07 10.884.3 -1927 871.8 -29.4 10.00 6.17 -42.34 11,000.0 29.14 10,932.7 -182.4 878.8 -18.0 10.00 -23.85 16.46 8.09 10,980.1 11,050.0 20.92 21.99 -168.0 885.6 -2.5 10.00 8.90 -14.31 11,100.0 25.57 17.30 11,026.0 -149.4 892.2 10.00 9.30 -9.38 16.9 11.150.0 30.32 13.98 11.070.2 -126.8 898.4 40.3 10.00 9.51 -6.63 11,200.0 35.14 11.50 11, 112, 2 -100.5 904.4 67.3 10.00 9.63 -4.97 11,250.0 39.99 9.54 11.151.9 -70 5 909 9 97.7 10.00 9.71 -3.90 11 300 0 44.88 7.95 11 188 8 -37.2 915.0 131.4 10.00 977 -3 18 11,350.0 49.78 6.61 11,222.6 -0.7 919.6 168.1 10.00 9.80 -2.68 11,400.0 54.69 5.45 11,253.2 38.6 923.8 207.5 10.00 9.83 -2.32 11,450.0 59.62 4.43 11,280,4 80.4 927.4 249.3 10.00 9.85 -2.05 11,500.0 64 55 3.50 11 303 8 124 5 930.4 293.2 10.00 9.87 -1 85 11,550.0 69.49 2.65 11.323.3 170.4 932.9 338.8 10.00 9.88 -1.71 217 9 11,600.0 74 43 1 85 11 338 7 934 8 385.8 10 00 9 88 -1 60 11,650.0 79.38 1.09 11.350.1 266.6 936.0 433.9 10.00 9.89 -1.52 11,700.0 84.32 0.35 11,357.2 316.1 936.6 482.7 10.00 9.89 -1.48 11,750.0 89.27 359.62 11.360.0 366.0 936.6 531.7 9.89 10.00 -1.45 90.00 359.52 11,360.0 373.4 538.9 10.00 11,757.4 936.6 9.89 -1.45 11.800.0 90.00 359.52 11,360.0 416.0 936.2 580.8 0.00 0.00 0.00 90.00 359 52 11,360.0 516 0 935 3 678 9 0.00 0.00 11,900.0 0.00 12,000.0 90.00 359.52 11.360.0 616.0 934.5 777.1 0.00 0.00 0.00 11.360.0 716.0 875.2 12,100.0 90.00 359.52 933.7 0.00 0.00 0.00 12,200.0 90.00 359.52 11,360.0 816.0 932.8 973.3 0.00 0.00 0.00 1.071.5 12,300.0 90.00 359.52 11,360.0 916.0 932.0 0.00 0.00 0.00 359.52 11.360.0 0.00 0.00 12,400.0 90.00 1.016.0 931.1 1.169.6 0.00 359,52 12 500.0 90.00 11,360.0 1,116.0 930 3 1.267.8 0.00 0.00 0.00 12,600.0 90.00 359.52 11,360.0 1,216.0 929.4 1,365.9 0.00 0.00 0.00 12,700.0 90.00 359 52 11 360 0 1 316 0 928 6 1 464 1 0.00 0.00 0.00 12.800.0 90.00 359.52 11.360.0 1,416.0 927.7 1,562.2 0.00 0.00 0.00 12,900.0 90.00 359.52 11.360.0 1,515.9 926.9 1,660.3 0.00 0.00 0.00 13,000.0 90.00 359.52 11.360.0 1,615.9 926.0 1.758.5 0.00 0.00 0.00 13,100.0 90.00 359.52 11,360.0 1,715.9 925 2 1 856.6 0.00 0.00 0.00 13,200.0 90.00 359.52 11,360.0 1,815.9 924.4 1.954.8 0.00 0.00 0.00 2.052.9 0.00 13.300.0 90.00 359.52 11.360.0 1,915.9 923.5 0.00 0.00 13,400.0 0.00 90.00 359 52 20159 922.7 2.151.0 0.00 11 360.0 0.00 13,500.0 90.00 359.52 11,360.0 2.115.9 921.8 2,249.2 0.00 0.00 0.00 13,600.0 90.00 359.52 11,360.0 2,215.9 2,347.3 0.00 0.00 0.00 921.0 920.1 11,360.0 2 315.9 0.00 0.00 0.00 13,700.0 90.00 359 52 2 445.5 13,800.0 90.00 359.52 11,360.0 2,415.9 919.3 2,543.6 0.00 0.00 0.00 90.00 359.52 11.360.0 2,515.9 918.4 2,641.8 0.00 0.00 0.00 13,900.0 27399 0.00 14,000.0 90 00 359 52 11.360.0 2,615.9 917 6 0.00 0.00 14,100.0 90.00 359.52 11,360.0 2.715.9 916.7 2,838.0 0.00 0.00 0.00 90.00 28159 2 936 2 0.00 0.00 0.00 14.200.0 359 52 11,360.0 915 9 90.00 2,915.9 3,034.3 0.00 0.00 0.00 14.300.0 359.52 11.360.0 915.1 14,400.0 90.00 359.52 11,360.0 3.015.9 914.2 3,132.5 0.00 0.00 0.00 14,500.0 90.00 359.52 11,360.0 3,115,9 913.4 3 230 6 0.00 0.00 0.00 14,600.0 90.00 359.52 11,360.0 3.215.9 912.5 3.328.8 0.00 0.00 0.00 14,700.0 90.00 359.52 11,360.0 3.315.9 911.7 3,426.9 0.00 0.00 0.00 14,800.0 910.8 3.525.0 90.00 359.52 11.360.0 3,415.9 0.00 0.00 0.00

COMPASS 5000 1 Build 78



Planning Report

Database: . Company: 0 Project: Site: . Well:

Wellbore:

Planned Survey

Design:

EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME) Della 29 Fed #701H OH

Plan #0.4

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well #701H KB = 25 @ 3739.0usft KB = 25 @ 3739.0usft Grid Minimum Curvature

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 14,900.0                    | 90.00              | 359.52         | 11,360.0                    | 3,515.9         | 910.0           | 3,623.2                       | 0.00                          | 0.00                         | 0.00                        |
| 15,000.0                    | 90.00              | 359.52         | 11,360.0                    | 3,615.9         | 909.1           | 3,721.3                       | 0.00                          | 0.00                         | 0.00                        |
| 15,100.0                    | 90.00              | 359.52         | 11,360.0                    | 3,715.9         | 908.3           | 3,819.5                       | 0.00                          | 0.00                         | 0.00                        |
| 15,200.0                    | 90.00              | 359.52         | 11,360.0                    | 3,815.9         | 907.4           | 3,917.6                       | 0.00                          | 0.00                         | 0.00                        |
| 15,300.0                    | 90.00              | 359.52         | 11,360.0                    | 3,915.9         | 906.6           | 4,015.7                       | 0.00                          | 0.00                         | 0.00                        |
| 15,400.0                    | 90.00              | 359.52         | 11,360.0                    | 4,015.9         | 905.7           | 4,113.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,500.0                    | 90.00              | 359.52         | 11,360.0                    | 4,115.9         | 904.9           | 4,212.0                       | 0.00                          | 0.00                         | 0.00                        |
| 15,600.0                    | 90.00              | 359.52         | 11,360.0                    | 4.215.9         | 904.1           | 4,310.2                       | 0.00                          | 0.00                         | 0.00                        |
| 15,700.0                    | 90.00              | 359.52         | 11,360.0                    | 4,315.8         | 903.2           | 4,408.3                       | 0.00                          | 0.00                         | 0.00                        |
| 15,800.0                    | 90.00              | 359.52         | 11,360.0                    | 4,415.8         | 902.4           | 4,506.5                       | 0.00                          | 0.00                         | 0.00                        |
| 15,900.0                    | 90.00              | 359.52         | 11,360.0                    | 4,515.8         | 901.5           | 4,604.6                       | 0.00                          | 0.00                         | 0.00                        |
| 16,000.0                    | 90.00              | 359.52         | 11,360.0                    | 4,615.8         | 900.7           | 4,702.7                       | 0.00                          | 0.00                         | 0.00                        |
| 16,100.0                    | 90.00              | 359.52         | 11,360.0                    | 4,715.8         | 899.8           | 4,800.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,198.2                    | 90.00              | 359.52         | 11,360.0                    | 4,814.0         | 899.0           | 4,897.2                       | 0.00                          | 0.00                         | 0.00                        |

#### Design Targets

| Target Name<br>- hit/miss target<br>- Shape                              | Dip Angle<br>(°)       | Dip Dir.<br>(°)       | TVD<br>(usft)            | +N/-S<br>(usft)      | +E/-W<br>(usft)           | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude         |
|--|------------------------|-----------------------|--------------------------|----------------------|---------------------------|--------------------|-------------------|------------------|-------------------|
| PBHL(Della 29 Fed #70 <sup>-</sup><br>- plan hits target cent<br>- Point | 0.00<br>ter            | 0.01                  | 11,360.0                 | 4,814.0              | 899.0                     | 564,867.00         | 733,842.00        | 32° 33' 2.292 N  | 103° 34' 27.950 W |
| FTP(Della 29 Fed #701)   | 0.00<br>center by 69.0 | 0.00<br>Jusft at 1149 | 11,360.0<br>1.1usft MD ( | 84.0<br>11299.9 TVD. | 939.0<br>116.5 N. 929.9 E | 560,137.00         | 733,882.00        | 32° 32' 15.486 N | 103° 34' 27.876 W |

- Point

# Della 29 Fed 701H 30-025-43053 EOG Resources, Inc Surface Location: Sec. 29, T. 20S, R. 34E Conditions of Approval

# See below for the updated Conditions of Approval for the Drilling Section.

# DRILLING

# A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated at 2500 feet drilling depth. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

#### Wait on cement (WOC) for Potash Areas:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

## **Risks:**

Possibility of Water Flows in the Capitan Reef, in the Salado and in the Artesia Group. Possibility of Lost Circulation in the Rustler, in the Capitan Reef, in the Red Beds, in the Delaware and in the Artesia Group.

- The 10 3/4 inch surface casing shall be set at approximately 1625 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 10 3/4 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

# **Special Capitan Reef requirements:**

If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- a. Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- b. Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

The intermediate casing shall be kept fluid filled to avoid approaching the minimum collapse pressure rating of the casing.

2. The minimum required fill of cement behind the 7 5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 7 5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Variance is granted for centralizers in the production interval per the drilling program.

3. The minimum required fill of cement behind the 5 1/2 inch production casing is:

# Cement should tie-back to cover casing 50 feet above Capitan Reef, which shall be approximately at a depth of 4000 feet. Operator shall provide method of verification. <u>Proposed cement calculates to negative 33% to</u> <u>achieve this goal - Additional cement shall be required.</u>

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

# C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly (BOPE/BOPE) will be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.
  - c. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - d. Manufacturer representative shall install the test plug for the initial and all BOP testing.
  - e. Prior to running the intermediated casing, the rams will be changed out to accommodate the 7-5/8 inch casing. After installing the intermediate casing the casing rams will be removed and replaced with variable bore rams.

4. Operator has broken a seal on the BOP stack therefore per Onshore Oil and Gas Order No. 2 <u>the entire BOP stack shall be tested prior to drilling out the intermediated casing</u>.

- a. A solid steel body pack-off will be utilized after running & cementing the intermediate casing. After installation of the pack-off and lower flange will be pressure tested to 5000 psi.
- b. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

# D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

# E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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