| CONFIDENTIAL CONF                                       | 45 Days<br>attached to this form:<br>the operations unless covered by an existi  | -0137<br>31, 2014<br>be Name<br>Name and No.<br>31, 01 2<br>0.<br>H<br>43, 185<br>atory<br>Upr Bone Spring<br>Survey or Area<br>13. State<br>NM |
|---|--|---|
|   | OMB No. 100-<br>Expires October         5.       Lease Serial No.         NMNM114991         6.       If Indian, Allotee or Tr         8.       Lease Name and Well N         Green Wave 20-17 Fed 31         9.       API Well No.         9.       API Well No. <th>-0137<br/>31, 2014<br/>be Name<br/>Name and No.<br/>31, 01 2<br/>0.<br/>H<br/>43, 185<br/>atory<br/>Upr Bone Spring<br/>Survey or Area<br/>13. State<br/>NM</th> | -0137<br>31, 2014<br>be Name<br>Name and No.<br>31, 01 2<br>0.<br>H<br>43, 185<br>atory<br>Upr Bone Spring<br>Survey or Area<br>13. State<br>NM |
| Image: Centre of the second   | Expires October         5. Lease Serial No.         NMNM114991         6. If Indian, Allotee or Tr         7. If Unit or CA Agreement         8. Lease Name and Well N         9. API Well No.   | sl, 2014<br>be Name<br>Name and No.<br><b>3161</b><br>o.<br>H<br><b>43185</b><br>atory<br>Upr Bone Spring<br>Survey or Area<br>13. State<br>NM  |
| BUREAU OF LAND MANAGEMENT         APPLICATION FOR PERMIT TO DRILL OR REENTER         1a. Type of work:       DRILL       REENTER         1b. Type of Well:       Oil Well       Gas Well       Other       Single Zode       Mu         2. Name of Operator       Devon Energy Production Company, L.P.       (6137)       (6137)         3a. Address       333 West Sheridan Avenue<br>Oklahoma City, OK 73102-5010       3b. Phone No. (include area code)         4. Eocation of Well (Report location clearly and in accondunce with any State requirements.*)       At surface Unit L, Sec 20-T26S-R34E, 2355' FSL 330' FWL       PP: 2140' FNL 330' FWL         4. Eocation of Well (Report location from nearest town or post office*       Approximately 18.6 miles Southwest of Jal, NM.       16. No. of acres in lease         15. Distance from proposed*       See attached map       16. No. of acres in lease       1880 Acres         18. Distance from proposed location*       See attached map       19. Proposed Depth       17,859' MD / 10,200' TVD         18. Distance from proposed location*       See attached map       22. Approximate date work will       4/1/2016         19. Proposed Depth       17,859' MD / 10,200' TVD       24. Attachments       5. Operator cert         19. Elevations (Show whether DF, KDB, RT, GL, etc.)       2355.9' GL       4. Bond to cove ltem 20 above       5. Operator cert <tr< td=""><td>NMNM114991         6. If Indian, Allotee or Tr         8. Lease Name and Well N         9. API Well No.         9. API Well No.         9. API Well No.         10. Field and Pool, or Explor         WC-025 G-06 S263407P;         11. Sec., T. R. M. or Blk. and         SL: Sec 20-T26S-R34E         BL: Sec 17-T26S-R34E         12. County or Parish         Lea         17. Spacing Unit dedicated to this well         240 Acres         20. BLM/BIA Bond No. on file         CO-1104; NBM-000801         tart*         23. Estimated duration         45 Days</td><td>Name and No.<br/>3161 2<br/>0.<br/>H<br/>43185<br/>upr Bone Spring<br/>Survey or Area<br/>13. State<br/>NM</td></tr<> | NMNM114991         6. If Indian, Allotee or Tr         8. Lease Name and Well N         9. API Well No.         9. API Well No.         9. API Well No.         10. Field and Pool, or Explor         WC-025 G-06 S263407P;         11. Sec., T. R. M. or Blk. and         SL: Sec 20-T26S-R34E         BL: Sec 17-T26S-R34E         12. County or Parish         Lea         17. Spacing Unit dedicated to this well         240 Acres         20. BLM/BIA Bond No. on file         CO-1104; NBM-000801         tart*         23. Estimated duration         45 Days  | Name and No.<br>3161 2<br>0.<br>H<br>43185<br>upr Bone Spring<br>Survey or Area<br>13. State<br>NM  |
| APPLICATION FOR PERMIT TO DRILL OR REENTER         1a. Type of work:       DRILL       REENTER         1b. Type of Well:       Oil Well       Gas Well       Other       Single Zone       Mu         2. Name of Operator       Devon Energy Production Company, L.P.       (6137)         3a. Address       333 West Sheridan Avenue<br>Oklahoma City, OK 73102-5010       3b. Phone No. (include area oxide)<br>405-552-6558         4. Location of Well (Report Iocation clearly and in accordance with arry State requirements.*)       At surface Unit L, Sec 20-T26S-R34E, 2355' FSL 330' FWL PP: 2140' FNL 330' FWL<br>At proposed prod. zone Unit D, Sec 17-T26S-R34E, 330' FNL 380' FWL         14. Distance in miles and direction from nearest town or post office*<br>Approximately 18.6 miles Southwest of Jal, NM.       16. No. of acres in lease<br>10cation to nearest<br>Approximately 18.6 miles Southwest of Jal, NM.         15. Distance from proposed*<br>location to nearest fig. unit line, if any)       18.0 Acres       18.0 Acres         18. Distance from proposed location*<br>to nearest well, drilling, completed, See attached map<br>applied for, on this lease, ft.       19. Proposed Depth<br>17,859' MD / 10,200' TVD         21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3355.9' GL       22. Approximate date work will<br>4/1/2016         1. Well plat certified by a registered surveyor.       4. Bond to cover<br>ttem 20 above       5. Operator cert<br>6. Such other si<br>BLM.         23. A Surface Use Plan (if the location is on National Forest System Lands, the<br>SUPO must be filed  | 7. If Unit or CA Agreement         8. Lease Name and Well N         Green Wave 20-17 Fed 31         9. API Well No.         10. Field and Pool, or Explor         WC-025 G-06 S263407P;         11. Sec., T. R. M. or Blk.and         SL: Sec 20-T26S-R34E         BL: Sec 17-T26S-R34E         12. County or Parish         Lea         17. Spacing Unit dedicated to this well         240 Acres         20. BLM/BIA Bond No. on file         CO-1104; NBM-000801         tart*       23. Estimated duration         45 Days   | Name and No.<br>3161 2<br>0.<br>H<br>43185<br>upr Bone Spring<br>Survey or Area<br>13. State<br>NM  |
| 1b. Type of Well:       Oil Well       Gas Well       Other       Single Zore       Mu         2. Name of Operator       Devon Energy Production Company, L.P.       (6137)         3a. Address       333 West Sheridan Avenue<br>Oklahoma City, OK 73102-5010       3b. Phone No. (include area code)<br>405-552-6558         4. Location of Well (Report location clearly and in accordance with any State requirements.*)<br>At surface Unit L, Sec 20-T26S-R34E, 2355' FSL 330' FWL       PP: 2140' FNL 330' FWL<br>At proposed prod. zone Unit D, Sec 17-T26S-R34E, 330' FNL 380' FWL         14. Distance in miles and direction from nearest town or post office*<br>Approximately 18.6 miles Southwest of Jal, NM.       16. No. of acres in lease<br>location to nearest         15. Distance from proposed*<br>location to nearest fig. unit line, if any)       19. Proposed Depth<br>17,859' MD / 10,200' TVD         18. Distance from proposed location*<br>to nearest well, drilling, completed, See attached map<br>applied for, on this lease, ft.       22. Approximate date work will<br>4/1/2016         21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3355.9' GL       22. Approximate date work will<br>4/1/2016         23. A Surface Use Plan (if the location is on National Forest System Lands, the<br>SUPO must be filed with the appropriate Forest Service Office).       4. Bond to cove<br>Item 20 above<br>5. Operator cert<br>6. Such other si<br>BLM.   | 8. Lease Name and Well N         Green Wave 20-17 Fed 31         9. API Well No.         9. API Well No.         10. Field and Pool, or Explor         WC-025 G-06 S263407P;         11. Sec., T. R. M. or Bik.and         SL: Sec 20-T26S-R34E         BL: Sec 17-T26S-R34E         12. County or Parish         Lea         17. Spacing Unit dedicated to this well         240 Acres         20. BLM/BIA Bond No. on file         CO-1104; NBM-000801         tart*         23. Estimated duration         45 Days  | 3 Let 2'<br>H<br>H<br>H<br>Upr Bone Spring<br>Survey or Area<br>13. State<br>NM   |
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| Oklahoma City, OK 73102-5010         405-552-6558         4. Eocation of Well (Report location clearly and in accordance with any State requirements.*)         At surface Unit L, Sec 20-T26S-R34E, 2355' FSL 330' FWL         At surface Unit L, Sec 20-T26S-R34E, 2355' FSL 330' FWL         At surface Unit D, Sec 17-T26S-R34E, 330' FWL         At proposed prod. zone Unit D, Sec 17-T26S-R34E, 330' FWL         At proposed prod. zone Unit D, Sec 17-T26S-R34E, 330' FWL         140 Distance from proposed from nearest town or post office*         Approximately 18.6 miles Southwest of Jal, NM.         16. No. of acres in lease         location to nearest         Sce attached map         property or lease line, ft.         (Also to nearest drig. unit line, if any)         18. Distance from proposed location*         to nearest well, drilling, completed, See attached map         applied for, on this lease, ft.         22 Approximate date work will         24 Approximate date work will         3355.9' GL         4. Attachments         Colspan= 2         A Drilling Plan.         A Surface  | 10. Field and Pool, or Explor         WC-025 G-06 S263407P;         11. Sec., T. R. M. or Blk. and         SL: Sec 20-T26S-R34E         BL: Sec 17-T26S-R34E         12. County or Parish         Lea         17. Spacing Unit dedicated to this well         240 Acres         20. BLM/BIA Bond No. on file         CO-1104; NBM-000801         tart*         23. Estimated duration         45 Days         attached to this form:         the operations unless covered by an existion.   | Upr Bone Spring<br>Survey or Area<br>13. State<br>NM  |
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| At proposed prod. zone       Unit D, Sec 17-T26S-R34E, 330' FNL 380' FWL         14. Distance in miles and direction from nearest town or post office*       Approximately 18.6 miles Southwest of Jal, NM.         15. Distance from proposed*       In the sec of the   | BL: Sec 17-T26S-R34E       12. County or Parish       Lea       17. Spacing Unit dedicated to this well       240 Acres       20. BLM/BIA Bond No. on file       CO-1104; NBM-000801       tart*       23. Estimated duration       45 Days  | NM  |
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| applied for, on this lease, ft.       Decented http:///icease.com/icea  | tart* 23. Estimated duration 45 Days attached to this form: the operations unless covered by an existing.  | ne bond on file (se   |
| 3355.9' GL       4/1/2016         24. Attachments         The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be         1. Well plat certified by a registered surveyor.       4. Bond to cove Item 20 above         2. A Drilling Plan.       4. Bond to cove Item 20 above         3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       5. Operator cert         25. Signature       4. Name (Printed/Typed)  | 45 Days<br>attached to this form:<br>the operations unless covered by an existi  | ne bond on file (se   |
| The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be       1. Well plat certified by a registered surveyor.       4. Bond to cove         1. Well plat certified by a registered surveyor.       4. Bond to cove       1. Uter 20 above         2. A Drilling Plan.       5. Operator certifice).       5. Operator certifice         3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       6. Such other signature         25. Signature       7. If the superstance of  | the operations unless covered by an existi   | ng bond on file (se   |
| 1. Well plat certified by a registered surveyor.       4. Bond to cove Item 20 above         2. A Drilling Plan.       5. Operator certifice         3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       5. Operator certifice         25. Signature       7       1   | the operations unless covered by an existi   | ng bond on file (se   |
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| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).       5. Operator cert.         5. Operator cert.       6. Such other si BLM.         25. Signature       7.   | lication   |   |
| 25. Signature / Name (Printed/Typed)  | e specific information and/or plans as may   | be required by the  |
| Linda Good  | Date   | Vala a  |
| itle Allan Work   | 0  | 13 pors   |
| Regulatory Compliance Specialist           Approved by (Signature)         /s/George MacDoneli         Name (Printed/Typed)   | Date   | APR 19  |
|   |  | APH 19  |
| FIELD MANAGER CA<br>Application approval does not warrant or certify that the applicant holds legal or equitable title to those ri  | RLSBAD FIELD OFFICE  | he applicant to   |
| onditions of annroval if any are attached   | APPROVAL FOR T   |   |
| The NMOCD Gas Capture Plan notice verson knowingly an within its jurisdiction.  | willfully to make to any department or age   | icy of the United   |
| has been posted on the web one atom A copy of the   | - N *(Instructi  | ons on page 2   |
|   |  |   |
| submit accordingly in a timely manner.  |  |   |
| GCP form is included with the notice times. Please<br>Forms section under Unnumbered forms. Please<br>submit accordingly in a timely manner.  | lib  |   |
| 04/2  | /'   |   |
|   |  |   |

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## 1. Geologic Formations

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| TVD of target | 10,200' | Pilot hole depth              | N/A |
|---------------|---------|-------------------------------|-----|
| MD at TD:     | 17,859' | Deepest expected fresh water: |     |

## Basin

£

| Depth (TVD)<br>from KB | Water/Mineral<br>Bearing/ Target<br>Zone?   |  |
|------------------------|---|--|
| 733                    |   |  |
| 1,163                  | 4   |  |
| 5,289                  |   |  |
| 5,324                  |   |  |
| 6,405                  |   |  |
| 7,953                  |   |  |
| 9,374                  |   |  |
| 9,620                  |   |  |
| 9,640                  |   |  |
| 9,920                  |   |  |
| 10,167                 |   |  |
|                        |   |  |
|                        |   |  |
|                        |   |  |
|                        |   |  |
|                        |   |  |
|                        |   |  |
|                        |   |  |
|                        | from KB<br>733<br>1,163<br>5,289<br>5,324<br>6,405<br>7,953<br>9,374<br>9,620<br>9,640<br>9,920 | from KB         Bearing/ Target<br>Zone?           733         Zone?           1,163 |

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

# 2. Casing Program

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|           | 2019-04-0-04-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0- |              | for which the man designed of the | AN LOS HAVE THE MELTING AND AND A | a na antiana ana ana ana ana ana ana ana ana | The amount matters takes | Participation and the Transformer | The second state and the second state of the s | electronic of a sound a substantia |
|-----------|---|--------------|-----------------------------------|-----------------------------------|--|--------------------------|-----------------------------------|--|------------------------------------|
| Hole Size | e Casing                                    | g Interval 🧃 | Csg.                              | Weight                            | Grade  | Conn                     | SF                                | SF Burst   |                                    |
|           | From  | To           | Size                              | (lbs)                             | Sec. Sec.                                    |                          | Collapse                          |  | Tensior                            |
| 17.5"     | 0   | -800'820'    | 13.375"                           | 48                                | H-40   | STC                      | 2.12                              | 4.77   | 14.54                              |
| 12.25"    | 0   | 4,300'       | .9.625"                           | 40                                | J-55   | BTC                      | 1.15                              | 3.43   | 4.69                               |
| 12.25"    | 4,300'                                      | -5,400,530   | 9.625"                            | 40                                | HCK-55                                       | BTC                      | 1.57                              | 4.63   | 6.07                               |
| 8.75"     | 0   | 17,859'      | 5.5"                              | 17                                | P-110  | BTC                      | 1.54                              | 2.19   | 3.09                               |
|           |   | · ·          |                                   | BLM Min                           | imum Safet                                   | y Factor                 | 1.125                             | 1.00   | 1.6 Dry                            |
|           |   |              |                                   |                                   |  | -                        |                                   |  | 1.8 Wet                            |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

|  | Y or N             |
|--|--------------------|
| Is casing new? If used, attach certification as required in Onshore Order #1                                   | Y                  |
| Does casing meet API specifications? If no, attach casing specification sheet.                                 | Y                  |
| Is premium or uncommon casing planned? If yes attach casing specification sheet.                               | N                  |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide                            | Y                  |
| justification (loading assumptions, casing design criteria).   |                    |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching                          | Y                  |
| the collapse pressure rating of the casing?  |                    |
| Charles and the second strate and second and |                    |
| Is well located within Capitan Reef?   | N                  |
| If yes, does production casing cement tie back a minimum of 50' above the Reef?                                |                    |
| Is well within the designated 4 string boundary.   |                    |
|  | CAPACIFIC RUN COLL |
| Is well located in SOPA but not in R-111-P?  | N                  |
| If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back                |                    |
| 500' into previous casing?   |                    |
|  |                    |
| Is well located in R-111-P and SOPA?   | N                  |
| If yes, are the first three strings cemented to surface?   |                    |
| Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?   |                    |
|  |                    |
| Is well located in high Cave/Karst?  | N                  |
| If yes, are there two strings cemented to surface?   |                    |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?                         |                    |
|  |                    |
| Is well located in critical Cave/Karst?  | N                  |
| If yes, are there three strings cemented to surface?   |                    |

#### 3. Cementing Program

| Casing             | # Sks | <b>Wt</b> | H <sub>2</sub> O | YId   | <b>500#</b>         | Slurry Description  |
|--------------------|-------|-----------|------------------|-------|---------------------|---|
|                    |       | lb/       | gal/sk           | ,ft3/ | Comp.               | an a  |
|                    |       | , gal     |                  | sack  | Strength<br>(hours) |   |
| 13-3/8"<br>Surface | 860   | 14.8      | 6.32             | 1.33  | 6                   | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake  |
| 9-5/8"<br>Inter.   | 1220  | 12.9      | 9.81             | 1.85  | 14                  | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC<br>Bentonite + 5% BWOW Sodium Chloride + 0.125<br>Ibs/sack Poly-E-Flake                                |
|                    | 430   | 14.8      | 6.32             | 1.33  | 6                   | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake  |
|                    | 340   | 11.9      | 12.89            | 2.31  | n/a                 | 1 <sup>st</sup> Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10%<br>BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC<br>HR-601 + 0.5lb/sk D-Air 5000       |
| 5-1/2"<br>Prod.    | 330   | 12.5      | 10.86            | 1.96  | 30                  | 2 <sup>nd</sup> Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6%<br>BWOC Bentonite + 0.25% BWOC HR-601 + 0.125<br>Ibs/sack Poly-E-Flake                     |
|                    | 2160  | 14.5      | 5.31             | 1.2   | 25                  | Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5%<br>bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC<br>HR-601 + 2% bwoc Bentonite                            |
|                    | 590   | 11.9      | 12,.89           | 2.31  | n/a                 | 1 <sup>st</sup> Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) +<br>10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3%<br>BWOC HR-601 + 0.5lb/sk D-Air 5000 |
| 5-1/2"<br>Prod.    | 2160  | 14.5      | 5.31             | 1.2   | 25                  | 1 <sup>st</sup> Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) +<br>0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2%<br>BWOC HR-601 + 2% bwoc Bentonite      |
| Two                |       |           |                  |       | D\                  | / Tool = 5450ft   |
| Stage              | 20    | 11        | 14.81            | 2.55  | 22                  | 2 <sup>nd</sup> Stage Lead: Tuned Light <sup>®</sup> Cement + 0.125 lb/sk<br>Pol-E-Flake  |
|                    | 30    | 14.8      | 6.32             | 1.33  | 6                   | 2 <sup>nd</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-<br>Flake  |

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

| Casing String                             | TOC   | 🥼 🕺 Excess |
|---|---|------------|
| 13-3/8" Surface                           | 0'  | 100%       |
| 9-5/8" Intermediate                       | 0'  | 75%        |
| 5-1/2" Production Casing                  | 5200'   | 25%        |
| 5-1/2" Production Casing Two Stage Option | 1 <sup>st</sup> Stage = 5450' / 2 <sup>nd</sup> Stage = 5200' | 25%        |
|   | 5100  |            |

See COA

## 4. Pressure Control Equipment

| N A sc | variance is requested for the use of a diverter on the surface casing. | See attached for |
|--------|--|------------------|

| BOP installed<br>and tested<br>before drilling<br>which hole? | Size?   | Min.<br>Required<br>WP      | Ţ          | vpe       |     | Tested to:              |  |
|---|---------|-----------------------------|------------|-----------|-----|-------------------------|--|
|   |         |                             |            | nular     | X   | 50% of working pressure |  |
|   |         |                             | Blind      | Blind Ram |     |                         |  |
| 12-1/4"   | 13-5/8" | 3M                          | Pipe       | Ram       |     | 3M                      |  |
|   |         |                             | Doub       | le Ram    | x   | 5141                    |  |
|   |         |                             | Other*     |           |     |                         |  |
|   |         |                             | Annular    |           | x   | 50% testing pressure    |  |
|   |         |                             | Blind      | l Ram     |     |                         |  |
| 8-3/4"  | 12 5/02 | 3M Pipe Ram<br>Double Ram x | 23.4       | Pipe      | Ram |                         |  |
| 8-3/4   | 13-5/8" |                             | 3M         |           |     |                         |  |
|   |         |                             | Other<br>* |           |     |                         |  |
|   |         |                             |            |           |     |                         |  |
|   |         |                             |            |           |     |                         |  |
|   |         |                             |            |           |     |                         |  |
|   |         |                             |            |           |     |                         |  |
|   |         |                             |            |           |     |                         |  |

\*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

| Y | Formation integrity test will be performed per Onshore Order #2.  |
|---|---|
|   | On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in |
|   | accordance with Onshore Oil and Gas Order #2 III.B.1.i.   |
|   | A variance is requested for the use of a flexible choke line from the BOP to Choke  |

Y A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. .

minimal turns.

|   | Y Are anchors required by manufacturer?  |
|---|--|
| Y | A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.   |
| A | <ul> <li>Devon proposes the option of using a multi-bowl wellhead assembly. This assembly will only 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 3000 (3M) psi.</li> <li>Wellhead will be installed by vendor's representatives.</li> <li>If the welding is performed by a third party, the vendor's representative will</li> </ul>   |
|   | monitor the temperature to verify that it does not exceed the maximum temperature of the seal.   |
|   | <ul> <li>Vendor representative will install the test plug for the initial BOP test.</li> <li>Vendor will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.</li> </ul>  |
|   | <ul> <li>If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.</li> <li>Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.</li> </ul>  |
|   | • Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.  |
|   | After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead. |
|   | The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.   |
|   | Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with   |

See attached schematic.



## 5. Mud Program

| -De   | pth          | Туре            | Weight (ppg) | Viscosity | Water Loss |
|-------|--------------|-----------------|--------------|-----------|------------|
| From  | То           |                 |              |           |            |
| 0     | 800 820'     | FW Gel          | 8.6-8.8      | 28-34     | N/C        |
| 800   | 5,400' 5300' | Saturated Brine | 10.0-10.2    | 28-34     | N/C        |
| 5,400 | 17,859'      | Cut Brine       | 8.5-9.3      | 28-34     | N/C        |

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

| What will be used to monitor the loss or gain | PVT/Pason/Visual Monitoring |
|---|-----------------------------|
| of fluid?                                     |                             |

## 6. Logging and Testing Procedures

| Logging, Coring and Testing: |  |  |  |
|------------------------------|--|--|--|
| X                            | Will run GR/CNL fromTD to surface (horizontal well - vertical portion of hole). Stated |  |  |
|                              | logs run will be in the Completion Report and submitted to the BLM.                    |  |  |
|                              | No Logs are planned based on well control or offset log information.                   |  |  |
|                              | Drill stem test? If yes, explain   |  |  |
|                              | Coring? If yes, explain  |  |  |

| Add | litional logs planned | i Interval              |
|-----|-----------------------|-------------------------|
|     | Resistivity           | Int. shoe to KOP        |
|     | Density               | Int. shoe to KOP        |
| X   | CBL                   | Production casing       |
| Χ   | Mud log               | Intermediate shoe to TD |
|     | PEX                   |                         |

#### Devon Energy, Green Wave 20-17 Fed 31H

## 7. Drilling Conditions

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| Condition                  | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 4932 psi                     |
| Abnormal Temperature       | No                           |

Mitigation measure for abnormal conditions: Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. IfH2S is detected in concentrations greater than 100 ppm, the operator will comply with theprovisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measuredvalues and formations will be provided to the BLM.NH2S is presentYH2S Plan attached

## 8. Other facets of operation

Is this a walking operation? No. Will be pre-setting casing? No.

Attachments

<u>x</u> Directional Plan Other, describe

| •  |  |  |  |  |  |
|--|--|--|--|--|--|
| devon  | 10419       10110       31H       9250         10419       10110       31H       65750         21H       -       -       -       -         987/1       -       -       -       -       -         987/1       -       -       -       -       -       -         987/1       -       -       -       -       -       -       -         9750       -       -       -       -       -       -       -       -         9750       - <td< th=""><th>Created By: Brady Deaver<br/>Date:Date:Date: 10:03, July 08 2015<br/>Approved:Date:Date:</th></td<>  | Created By: Brady Deaver<br>Date:Date:Date: 10:03, July 08 2015<br>Approved:Date:Date: |  |  |  |
| PROJECT DETAILS: Lea County, NM (NAD-83)<br>Geodetic System: US State Plane 1993<br>Datum: North American Datum 1983<br>Ellipsoid: GRS 1980<br>Zone: New Mexico Eastern Zone   | SIGN TARGET DETAILS       Northing       Easting       22,15,134       100,229,57,166 W         SECTION DETAILS       SECTION DETAILS       100,229,57,166 W       100,229,57,166 W         SECTION DETAILS       SECTION DETAILS       100,229,57,166 W       100,229,57,166 W         SECTION DETAILS       SECTION DETAILS       Nondation       100,229,57,164 W         SECTION DETAILS       SECTION DETAILS       Nondation       100,229,57,164 W         SECTION DETAILS       SECTION DETAILS       Nondation       100,200,000,000,000,000,000,000,000,000,   | East Davis, Conroe, Texas 77301<br>le: 936/756-7577, Fax 936/756-7595                  |  |  |  |
| T G M Azimuths to Grid North<br>True North: 0.14°<br>Magnetic North: 6.77°<br>Magnetic Field<br>Strength: 48106.8snT<br>Dip Angle: 59.97°<br>Date: 7/8/2015<br>Model: BGGM2015 | PE-17F 31H)<br>20-17F 31H)<br>20-17F 31H)<br>20-17F 31H)<br>20-17F 31H)<br>20-17F 31H)<br>20-17F 31H)<br>20-17F 31H)<br>20-100<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>20 | 2010 East Davis, (<br>Phone: 936/756-75  |  |  |  |
| DEVON ENERGY<br>Project: Lea County, NM (NAD-83)<br>Site: Green Wave 20-17 Fed<br>Well: 31H<br>Wellbore: OH<br>Design: Plan #1   | Bell Canyon<br>Lamar - Nudge<br>Bell Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy-Canyon<br>Brushy Brushy<br>Brushy Brushy<br>Brushy Brushy<br>Brushy   | Drilling Systems, Inc.   |  |  |  |

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