

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*Lease Serial No.  
NMNM15091

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

HOBBS OGD

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

JAN 16 2019

8. Well Name and No.

ROJO 7811 22 FEDERAL COM 14Y

2. Name of Operator

BTA OIL PRODUCERS LLC

Contact: KATY REDDELL

E-Mail: kreddell@btaoil.com

9. API Well No.

3a. Address

104 S PECOS STREET  
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432-682-3753 Ext: 139

10. Field and Pool or Exploratory Area

BOBCAT DRAW; UPPER WOLFCAM

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 22 T25S R33E SESE 220FSL 1220FEL  
32.109386 N Lat, 103.555695 W Lon

11. County or Parish, State

LEA COUNTY, NM

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |                                               |                                                    |                                           |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|                                                      | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       | Drilling Operations                       |
|                                                      | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |                                           |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BTA OIL PRODUCERS, LLC respectfully requests to Skid our original well bore, ROJO 7811 22 FEDERAL COM 14H. API: 30-025-45309. 220 FSL AND 1250 FEL OF SEC. 22; T25S; R33E: 220 FSL.

A NEW PLAT IS ATTACHED.

THERE IS NO CHANGE TO THE DRILLING PLAN.

A NEW DIRECTIONAL PLAN IS ATTACHED.

THERE WILL NOT BE ANY NEW DISTURBANCE TO THE SURFACE AND PAD.

4/19/2018: Engineering review completed by M Hague

OK Per Bud Balla 12-17-2018

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #447937 verified by the BLM Well Information System  
For BTA OIL PRODUCERS LLC, sent to the Hobbs  
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/18/2018 ()

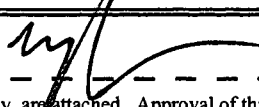
Name (Printed/Typed) KATY REDDELL

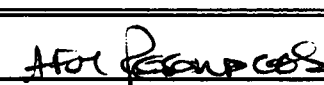
Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/17/2018

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By   
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 20 Dec 2018  
Office UNMFO2000 CARLSBAD

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.

(Instructions on page 2)

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



DISTRICT I  
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., Santa Fe, NM 87505  
Phone: (505) 476-3464 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|               |                          |                           |
|---------------|--------------------------|---------------------------|
| API Number    | Pool Code                | Pool Name                 |
|               |                          | BOBCAT DRAW/UPPER WORKING |
| Property Code | Property Name            | Well Number               |
|               | ROJO 7811 22 FEDERAL COM | 14Y                       |
| OGRID No.     | Operator Name            | Elevation                 |
| 260297        | BTA OIL PRODUCERS, LLC   | 3345'                     |

| Surface Location |         |          |       |         |               |                  |               |                |        |
|------------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot No.    | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| P                | 22      | 25-S     | 33-E  |         | 220           | SOUTH            | 1220          | EAST           | LEA    |

| Bottom Hole Location If Different From Surface |         |                 |                    |           |               |                  |               |                |        |
|------------------------------------------------|---------|-----------------|--------------------|-----------|---------------|------------------|---------------|----------------|--------|
| UL or lot No.                                  | Section | Township        | Range              | Lot Idn   | Feet from the | North/South line | Feet from the | East/West line | County |
| A                                              | 22      | 25-S            | 33-E               |           | 50            | NORTH            | 330           | EAST           | LEA    |
| Dedicated Acres                                |         | Joint or Infill | Consolidation Code | Order No. |               |                  |               |                |        |
| 1600                                           |         |                 |                    |           |               |                  |               |                |        |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>BOTTOM HOLE LOCATION</b><br/>NAD 27 NME<br/>Y= 409358.2 N<br/>X= 741808.6 E<br/>LAT.=32.123033' N<br/>LONG.=103.552258' W</p> <p><b>LAST TAKE POINT</b><br/>NAD 27 NME<br/>Y= 409078.3 N<br/>X= 741810.7 E<br/>LAT.=32.122263' N<br/>LONG.=103.552258' W</p> <p><b>CORNER COORDINATES TABLE</b><br/>NAD 27 NME<br/>A - Y= 409401.4 N, X= 740813.4 E<br/>B - Y= 409410.5 N, X= 742138.1 E<br/>C - Y= 404121.2 N, X= 740851.6 E<br/>D - Y= 404130.0 N, X= 742177.9 E</p> <p><b>CORNER COORDINATES TABLE</b><br/>NAD 83 NME<br/>A - Y= 409459.2 N, X= 781999.4 E<br/>B - Y= 409468.3 N, X= 783324.2 E<br/>C - Y= 404179.0 N, X= 782037.9 E<br/>D - Y= 404187.7 N, X= 783364.2 E</p> <p><b>FIRST TAKE POINT</b><br/>NAD 27 NME<br/>Y= 404457.7 N<br/>X= 741845.5 E<br/>LAT.=32.109562' N<br/>LONG.=103.552253' W</p> <p><b>GEODETIC COORDINATES</b><br/>NAD 27 NME<br/>SURFACE LOCATION<br/>Y= 404341.9 N<br/>X= 740956.5 E<br/>LAT.=32.109261' N<br/>LONG.=103.555127' W</p> | <p><b>BOTTOM HOLE LOCATION</b><br/>NAD 83 NME<br/>Y= 409416.1 N<br/>X= 782994.6 E<br/>LAT.=32.123157' N<br/>LONG.=103.552730' W</p> <p><b>LAST TAKE POINT</b><br/>NAD 83 NME<br/>Y= 409136.1 N<br/>X= 782996.8 E<br/>LAT.=32.122388' N<br/>LONG.=103.552729' W</p> <p><b>FIRST TAKE POINT</b><br/>NAD 83 NME<br/>Y= 404515.4 N<br/>X= 783031.8 E<br/>LAT.=32.109686' N<br/>LONG.=103.552724' W</p> <p><b>GEODETIC COORDINATES</b><br/>NAD 83 NME<br/>SURFACE LOCATION<br/>Y= 404399.6 N<br/>X= 782142.8 E<br/>LAT.=32.109386' N<br/>LONG.=103.555598' W</p> | <p>GRID AZ.=82°34'35"<br/>HORIZ. DIST.=896.7'</p> <p>PROJECT AREA<br/>PRODUCING AREA</p> <p>GRID AZ.=359°33'55"<br/>HORIZ. DIST.=4901.7'</p> <p>S.L. 220<br/>F.T.P. 330</p> | <p><b>OPERATOR CERTIFICATION</b><br/>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Kathy Reddell</i> Date: 12/4/18<br/>Printed Name: KATHY REDDELL<br/>E-mail Address: kreddelle@btacil.com</p> <p><b>SURVEYOR CERTIFICATION</b><br/>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JANUARY 20, 2017<br/>Date of Survey<br/>Signature: <i>Robert J. Eidson</i> Professional Surveyor:<br/>3239<br/>Certification Number: 3239<br/>ACK Rel.W.O.:17.13.0493 JWSC W.O. 18 11 1232</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

|                                                                                                                                                                                                                                                                |  |                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                                                                   |  | 5. Lease Serial No.<br>NMNM015091                                         |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                                                                                                                                |  | 6. If Indian, Allottee or Tribe Name                                      |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone                                                                                                   |  | 7. If Unit or CA Agreement, Name and No.                                  |
| 2. Name of Operator<br>BTA Oil Producers, LLC                                                                                                                                                                                                                  |  | 8. Lease Name and Well No.<br>ROJO 7811 FEDERAL COM #14Y                  |
| 3a. Address<br>104 S. Pecos Midland, TX. 79701                                                                                                                                                                                                                 |  | 9. API Well No.                                                           |
| 3b. Phone No. (include area code)<br>432-682-3753                                                                                                                                                                                                              |  | 10. Field and Pool, or Exploratory<br>BOBCAT DRAW ; UPPER WOLFCAMP        |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface SESE / 220 FSL / 1220 FEL / LAT 32.109261 / LONG -103.555127<br>At proposed prod. zone NENE / 50 FNL / 330 FEL / LAT 32.123033 / LONG -103.552258 |  | 11. Sec., T. R. M. or Blk. and Survey or Area<br>SEC 22/ T25S/ R33E / NMP |
| 14. Distance in miles and direction from nearest town or post office*<br>21                                                                                                                                                                                    |  | 12. County or Parish<br>LEA                                               |
| 15. Distance from proposed* location to nearest property or lease line, ft.<br>(Also to nearest drg. unit line, if any) 50                                                                                                                                     |  | 13. State<br>NM                                                           |
| 16. No. of acres in lease<br>840                                                                                                                                                                                                                               |  | 17. Spacing Unit dedicated to this well<br>160                            |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1231                                                                                                                                                |  | 20. BLM/BIA Bond No. in file<br>NMB000849                                 |
| 19. Proposed Depth<br>12408 feet / 17434 feet                                                                                                                                                                                                                  |  | 21. Estimated duration<br>45 days                                         |
| 22. Approximate date work will start*<br>05/01/2019                                                                                                                                                                                                            |  | 23. Estimated duration<br>45 days                                         |
| 24. Attachments                                                                                                                                                                                                                                                |  |                                                                           |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |                                                                                                                                               |                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor                                                                                               | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2. A Drilling Plan                                                                                                                            | 5. Operator certification                                                                      |
| 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 site specific information and/or plans as may be requested by the BLM            |

|                             |                                      |                     |
|-----------------------------|--------------------------------------|---------------------|
| 25. Signature<br>           | Name (Printed/Typed)<br>Katy Reddell | Date<br>12/17/2018  |
| Title<br>REGULATORY ANALYST |                                      |                     |
| Approved by (Signature)<br> | Name (Printed/Typed)<br>Ty Allen     | Date<br>20 DEC 2018 |
| Title<br>MANAGER            | Office<br>MCP2000 CARLSBAD           |                     |

Application approval 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

Conditions of approval, if any, are attached.

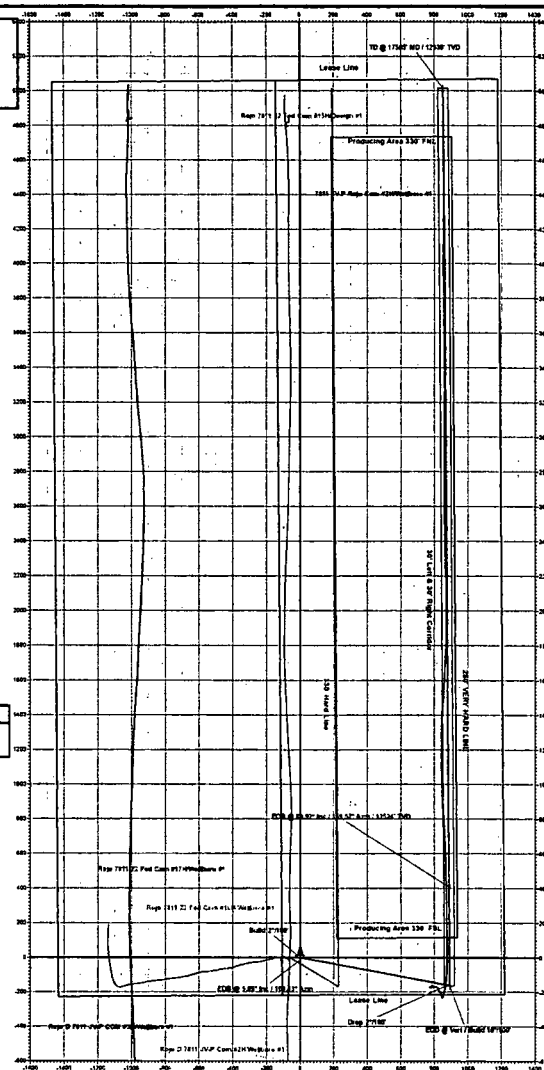
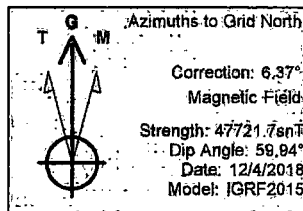
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Rojo 7811 22 Fed Com #14Y  
Lea County, NM (NAD 83)  
Q181\*\*\* & WT-18\*\*\*\*  
Design #1

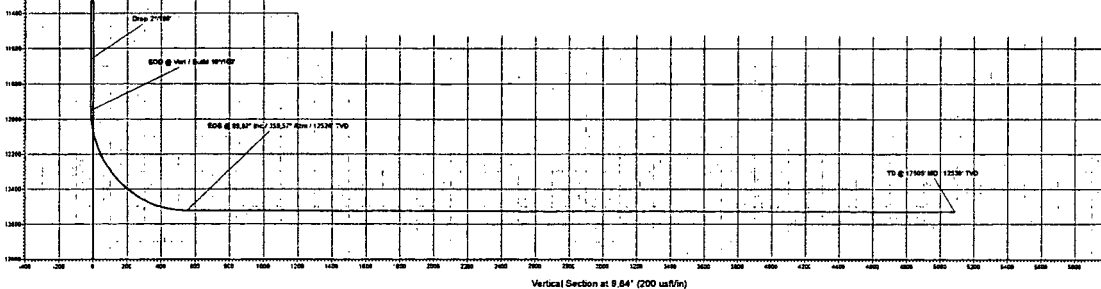
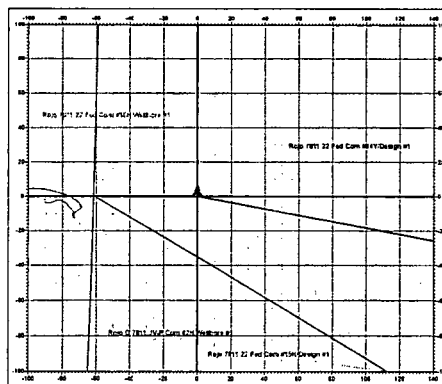


Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

| WELL DETAILS |      | Rejo T611 22 Pw Cam #14Y |           |                   |
|--------------|------|--------------------------|-----------|-------------------|
| 3365.0       |      |                          |           |                   |
| +N-6         | +E-W | Northing                 | Easting   | Latitude          |
| 0.0          | 0.5  | 404390.50                | 782142.84 | 32° 5' 33.788 N   |
|              |      |                          |           | 102° 33' 10.152 W |



| ANNOTATIONS |        |        |         |        |       |       |           |      |                             |
|-------------|--------|--------|---------|--------|-------|-------|-----------|------|-----------------------------|
| MD          | In c   | Azi    | TVD     | +W/L   | +E/W  | Vsect | Departure |      |                             |
| 2830.0      | 0.00   | 0.00   | 2830.0  | 0.0    | 0.0   | 0.0   | 0.00      | Bu01 | 2710'                       |
| 6.88        | 100.43 | 1122.8 | -2.7    | 14.1   | 0.0   | 0.0   | 0.00      | 0.00 | Inc 1/100.43 Azm            |
| 11703.8     | 6.88   | 100.43 | 11665.8 | -181.4 | 878.4 | -12.4 | 89.1      | Drop | 2710'                       |
| 11998.8     | 0.00   | 0.00   | 11998.8 | -164.1 | 878.1 | -12.4 | 90.6      | 1D   | Well 1 Bu01 1910'           |
| 17086.1     | 00.92  | 287.57 | 17053.0 | -438.1 | 608.8 | 820.9 | 0.00      | 0.00 | Inc 1/100.92 Azm/1252.6 TVD |
| 17804.6     | 00.92  | 287.57 | 17823.0 | -601.6 | 851.8 | 805.3 | 608.8     | TD   | 1780' MD / 1253' TVD        |



Vertical Section at 9.64' (200 usf/in)



# **BTA Oil Producers, LLC**

**Lea County, NM (NAD 83)**

**Sec 22, T25-S, R33-E**

**Rojo 7811 22 Fed Com #14Y**

**Wellbore #1**

**Plan: Design #1**

## **QES Well Planning Report**

**04 December, 2018**





## Well Planning Report



|           |                           |                              |                                    |
|-----------|---------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Rojo 7811 22 Fed Com #14Y     |
| Company:  | BTA Oil Producers, LLC    | TVD Reference:               | WELL @ 3370.0usft (Patterson #566) |
| Project:  | Lea County, NM (NAD 83)   | MD Reference:                | WELL @ 3370.0usft (Patterson #566) |
| Site:     | Sec 22, T25-S, R33-E      | North Reference:             | Grid                               |
| Well:     | Rojo 7811 22 Fed Com #14Y | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1               |                              |                                    |
| Design:   | Design #1                 |                              |                                    |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project     | Lea County, NM (NAD 83)   |               |                |
| Map System: | US State Plane 1983       | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | New Mexico Eastern Zone   |               |                |

|                       |                      |                   |                   |
|-----------------------|----------------------|-------------------|-------------------|
| Site                  | Sec 22, T25-S, R33-E |                   |                   |
| Site Position:        |                      | Northing:         | 409,243.40 usft   |
| From:                 | Map                  | Easting:          | 781,148.30 usft   |
| Position Uncertainty: | 0.0 usft             | Slot Radius:      | 13-3/16 "         |
|                       |                      | Latitude:         | 32° 7' 21.790 N   |
|                       |                      | Longitude:        | 103° 33' 31.310 W |
|                       |                      | Grid Convergence: | 0.41 °            |

|                      |                           |                     |               |
|----------------------|---------------------------|---------------------|---------------|
| Well                 | Rojo 7811 22 Fed Com #14Y |                     |               |
| Well Position        | +N/-S                     | -4,843.8 usft       | Northing:     |
|                      | +E/-W                     | 994.5 usft          | Easting:      |
| Position Uncertainty | 0.0 usft                  | Wellhead Elevation: | Ground Level: |
|                      |                           |                     | 3,345.0 usft  |

|           |             |             |                 |
|-----------|-------------|-------------|-----------------|
| Wellbore  | Wellbore #1 |             |                 |
| Magnetics | Model Name  | Sample Date | Declination     |
|           |             |             | (°)             |
|           | IGRF2015    | 12/4/2018   | 6.78            |
|           |             |             | Dip Angle       |
|           |             |             | (°)             |
|           |             |             | 59.94           |
|           |             |             | Field Strength  |
|           |             |             | (nT)            |
|           |             |             | 47,721.72705822 |

|                   |                  |        |               |
|-------------------|------------------|--------|---------------|
| Design            | Design #1        |        |               |
| Audit Notes:      |                  |        |               |
| Version:          | Phase:           | PLAN   | Tie On Depth: |
|                   |                  |        | 0.0           |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W         |
|                   | (usft)           | (usft) | (usft)        |
|                   | 0.0              | 0.0    | 0.0           |
|                   |                  |        | Direction     |
|                   |                  |        | (°)           |
|                   |                  |        | 9.64          |

| Plan Sections |             |         |          |         |        |             |             |             |        |                    |
|---------------|-------------|---------|----------|---------|--------|-------------|-------------|-------------|--------|--------------------|
| Measured      | Inclination | Azimuth | Vertical | +N/-S   | +E/-W  | Dogleg      | Build       | Turn        | TFO    | Target             |
| Depth         | (°)         | (°)     | Depth    | (usft)  | (usft) | Rate        | Rate        | Rate        | (°)    |                    |
| (usft)        |             |         | (usft)   |         |        | (°/100usft) | (°/100usft) | (°/100usft) |        |                    |
| 0.0           | 0.00        | 0.00    | 0.0      | 0.0     | 0.0    | 0.00        | 0.00        | 0.00        | 0.00   |                    |
| 2,830.0       | 0.00        | 0.00    | 2,830.0  | 0.0     | 0.0    | 0.00        | 0.00        | 0.00        | 0.00   |                    |
| 3,123.0       | 5.86        | 100.43  | 3,122.5  | -2.7    | 14.7   | 2.00        | 2.00        | 0.00        | 100.43 |                    |
| 11,703.8      | 5.86        | 100.43  | 11,658.5 | -161.4  | 876.4  | 0.00        | 0.00        | 0.00        | 0.00   |                    |
| 11,996.9      | 0.00        | 0.01    | 11,951.0 | -164.1  | 891.1  | 2.00        | -2.00       | 0.00        | 180.00 | VP Rojo 7811 22 Fe |
| 12,896.1      | 89.92       | 359.57  | 12,524.0 | 408.1   | 886.8  | 10.00       | 10.00       | -0.05       | 359.57 |                    |
| 17,504.6      | 89.92       | 359.57  | 12,530.0 | 5,016.5 | 851.8  | 0.00        | 0.00        | 0.00        | 0.00   | PBHL Rojo 7811 22  |



## Well Planning Report



Database: EDM 5000.1 Single User Db  
 Company: BTA Oil Producers, LLC  
 Project: Lea County, NM (NAD 83)  
 Site: Sec 22, T25-S, R33-E  
 Well: Rojo 7811 22 Fed Com #14Y  
 Wellbore: Wellbore #1  
 Design: Design #1

Local Co-ordinate Reference: Well Rojo 7811 22 Fed Com #14Y  
 TVD Reference: WELL @ 3370.0usft (Patterson #566)  
 MD Reference: WELL @ 3370.0usft (Patterson #566)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.0                                  | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                                | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                                | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                                | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                                | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                                | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                                | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                                | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                                | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                                | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                              | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                              | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                              | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                              | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                              | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                              | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                              | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                              | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                              | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                              | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                              | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                              | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                              | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                              | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                              | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                              | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                              | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                              | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                              | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Build 2°/100'</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,830.0                              | 0.00            | 0.00        | 2,830.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                              | 1.40            | 100.43      | 2,900.0               | -0.2         | 0.8          | 0.0                     | 2.00                    | 2.00                   | 0.00                  |
| 3,000.0                              | 3.40            | 100.43      | 2,999.9               | -0.9         | 5.0          | -0.1                    | 2.00                    | 2.00                   | 0.00                  |
| 3,100.0                              | 5.40            | 100.43      | 3,099.6               | -2.3         | 12.5         | -0.2                    | 2.00                    | 2.00                   | 0.00                  |
| <b>EOB @ 5.86° Inc / 100.43° Azm</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,123.0                              | 5.86            | 100.43      | 3,122.5               | -2.7         | 14.7         | -0.2                    | 2.00                    | 2.00                   | 0.00                  |
| 3,200.0                              | 5.86            | 100.43      | 3,199.1               | -4.1         | 22.5         | -0.3                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                              | 5.86            | 100.43      | 3,298.6               | -6.0         | 32.5         | -0.5                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                              | 5.86            | 100.43      | 3,398.0               | -7.8         | 42.5         | -0.6                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0                              | 5.86            | 100.43      | 3,497.5               | -9.7         | 52.6         | -0.7                    | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                              | 5.86            | 100.43      | 3,597.0               | -11.5        | 62.6         | -0.9                    | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                              | 5.86            | 100.43      | 3,696.5               | -13.4        | 72.7         | -1.0                    | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                              | 5.86            | 100.43      | 3,796.0               | -15.2        | 82.7         | -1.2                    | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                              | 5.86            | 100.43      | 3,895.4               | -17.1        | 92.7         | -1.3                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                              | 5.86            | 100.43      | 3,994.9               | -18.9        | 102.8        | -1.5                    | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                              | 5.86            | 100.43      | 4,094.4               | -20.8        | 112.8        | -1.6                    | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                              | 5.86            | 100.43      | 4,193.9               | -22.6        | 122.9        | -1.7                    | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                              | 5.86            | 100.43      | 4,293.3               | -24.5        | 132.9        | -1.9                    | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                              | 5.86            | 100.43      | 4,392.8               | -26.3        | 143.0        | -2.0                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                              | 5.86            | 100.43      | 4,492.3               | -28.2        | 153.0        | -2.2                    | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                              | 5.86            | 100.43      | 4,591.8               | -30.0        | 163.0        | -2.3                    | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                              | 5.86            | 100.43      | 4,691.2               | -31.9        | 173.1        | -2.4                    | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                              | 5.86            | 100.43      | 4,790.7               | -33.7        | 183.1        | -2.6                    | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                              | 5.86            | 100.43      | 4,890.2               | -35.6        | 193.2        | -2.7                    | 0.00                    | 0.00                   | 0.00                  |



## Well Planning Report



|           |                           |                              |                                    |
|-----------|---------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Rojo 7811 22 Fed Com #14Y     |
| Company:  | BTA Oil Producers, LLC    | TVD Reference:               | WELL @ 3370.0usft (Patterson #566) |
| Project:  | Lea County, NM (NAD 83)   | MD Reference:                | WELL @ 3370.0usft (Patterson #566) |
| Site:     | Sec 22, T25-S, R33-E      | North Reference:             | Grid                               |
| Well:     | Rojo 7811 22 Fed Com #14Y | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1               |                              |                                    |
| Design:   | Design #1                 |                              |                                    |

## Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,000.0               | 5.86            | 100.43      | 4,989.7               | -37.4        | 203.2        | -2.9                    | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 5.86            | 100.43      | 5,089.2               | -39.3        | 213.3        | -3.0                    | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 5.86            | 100.43      | 5,188.6               | -41.1        | 223.3        | -3.2                    | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 5.86            | 100.43      | 5,288.1               | -43.0        | 233.3        | -3.3                    | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 5.86            | 100.43      | 5,387.6               | -44.8        | 243.4        | -3.4                    | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 5.86            | 100.43      | 5,487.1               | -46.7        | 253.4        | -3.6                    | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 5.86            | 100.43      | 5,586.5               | -48.5        | 263.5        | -3.7                    | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 5.86            | 100.43      | 5,686.0               | -50.4        | 273.5        | -3.9                    | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 5.86            | 100.43      | 5,785.5               | -52.2        | 283.5        | -4.0                    | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 5.86            | 100.43      | 5,885.0               | -54.1        | 293.6        | -4.1                    | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 5.86            | 100.43      | 5,984.5               | -55.9        | 303.6        | -4.3                    | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 5.86            | 100.43      | 6,083.9               | -57.7        | 313.7        | -4.4                    | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 5.86            | 100.43      | 6,183.4               | -59.6        | 323.7        | -4.6                    | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 5.86            | 100.43      | 6,282.9               | -61.4        | 333.8        | -4.7                    | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 5.86            | 100.43      | 6,382.4               | -63.3        | 343.8        | -4.9                    | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 5.86            | 100.43      | 6,481.8               | -65.1        | 353.8        | -5.0                    | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 5.86            | 100.43      | 6,581.3               | -67.0        | 363.9        | -5.1                    | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 5.86            | 100.43      | 6,680.8               | -68.8        | 373.9        | -5.3                    | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 5.86            | 100.43      | 6,780.3               | -70.7        | 384.0        | -5.4                    | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 5.86            | 100.43      | 6,879.7               | -72.5        | 394.0        | -5.6                    | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 5.86            | 100.43      | 6,979.2               | -74.4        | 404.0        | -5.7                    | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 5.86            | 100.43      | 7,078.7               | -76.2        | 414.1        | -5.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 5.86            | 100.43      | 7,178.2               | -78.1        | 424.1        | -6.0                    | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 5.86            | 100.43      | 7,277.7               | -79.9        | 434.2        | -6.1                    | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 5.86            | 100.43      | 7,377.1               | -81.8        | 444.2        | -6.3                    | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 5.86            | 100.43      | 7,476.6               | -83.6        | 454.3        | -6.4                    | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 5.86            | 100.43      | 7,576.1               | -85.5        | 464.3        | -6.6                    | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0               | 5.86            | 100.43      | 7,675.6               | -87.3        | 474.3        | -6.7                    | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0               | 5.86            | 100.43      | 7,775.0               | -89.2        | 484.4        | -6.8                    | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0               | 5.86            | 100.43      | 7,874.5               | -91.0        | 494.4        | -7.0                    | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0               | 5.86            | 100.43      | 7,974.0               | -92.9        | 504.5        | -7.1                    | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0               | 5.86            | 100.43      | 8,073.5               | -94.7        | 514.5        | -7.3                    | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0               | 5.86            | 100.43      | 8,173.0               | -96.6        | 524.5        | -7.4                    | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0               | 5.86            | 100.43      | 8,272.4               | -98.4        | 534.6        | -7.5                    | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0               | 5.86            | 100.43      | 8,371.9               | -100.3       | 544.6        | -7.7                    | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0               | 5.86            | 100.43      | 8,471.4               | -102.1       | 554.7        | -7.8                    | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0               | 5.86            | 100.43      | 8,570.9               | -104.0       | 564.7        | -8.0                    | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0               | 5.86            | 100.43      | 8,670.3               | -105.8       | 574.8        | -8.1                    | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0               | 5.86            | 100.43      | 8,769.8               | -107.7       | 584.8        | -8.3                    | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0               | 5.86            | 100.43      | 8,869.3               | -109.5       | 594.8        | -8.4                    | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0               | 5.86            | 100.43      | 8,968.8               | -111.4       | 604.9        | -8.5                    | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0               | 5.86            | 100.43      | 9,068.3               | -113.2       | 614.9        | -8.7                    | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0               | 5.86            | 100.43      | 9,167.7               | -115.1       | 625.0        | -8.8                    | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0               | 5.86            | 100.43      | 9,267.2               | -116.9       | 635.0        | -9.0                    | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0               | 5.86            | 100.43      | 9,366.7               | -118.8       | 645.1        | -9.1                    | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0               | 5.86            | 100.43      | 9,466.2               | -120.6       | 655.1        | -9.2                    | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0               | 5.86            | 100.43      | 9,565.6               | -122.5       | 665.1        | -9.4                    | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 5.86            | 100.43      | 9,665.1               | -124.3       | 675.2        | -9.5                    | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 5.86            | 100.43      | 9,764.6               | -126.2       | 685.2        | -9.7                    | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 5.86            | 100.43      | 9,864.1               | -128.0       | 695.3        | -9.8                    | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 5.86            | 100.43      | 9,963.5               | -129.9       | 705.3        | -10.0                   | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 5.86            | 100.43      | 10,063.0              | -131.7       | 715.3        | -10.1                   | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 5.86            | 100.43      | 10,162.5              | -133.6       | 725.4        | -10.2                   | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 5.86            | 100.43      | 10,262.0              | -135.4       | 735.4        | -10.4                   | 0.00                    | 0.00                   | 0.00                  |



## Well Planning Report



Database: EDM 5000.1 Single User Db  
 Company: BTA Oil Producers, LLC  
 Project: Lea County, NM (NAD 83)  
 Site: Sec 22, T25-S, R33-E  
 Well: Rojo 7811 22 Fed Com #14Y  
 Wellbore: Wellbore #1  
 Design: Design #1

Local Co-ordinate Reference: Well Rojo 7811 22 Fed Com #14Y  
 TVD Reference: WELL @ 3370.0usft (Patterson #566)  
 MD Reference: WELL @ 3370.0usft (Patterson #566)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)                              | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|----------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,400.0                                           | 5.86            | 100.43      | 10,361.5              | -137.2       | 745.5        | -10.5                   | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0                                           | 5.86            | 100.43      | 10,460.9              | -139.1       | 755.5        | -10.7                   | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                                           | 5.86            | 100.43      | 10,560.4              | -140.9       | 765.6        | -10.8                   | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                                           | 5.86            | 100.43      | 10,659.9              | -142.8       | 775.6        | -10.9                   | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                                           | 5.86            | 100.43      | 10,759.4              | -144.6       | 785.6        | -11.1                   | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                                           | 5.86            | 100.43      | 10,858.8              | -146.5       | 795.7        | -11.2                   | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                                           | 5.86            | 100.43      | 10,958.3              | -148.3       | 805.7        | -11.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                                           | 5.86            | 100.43      | 11,057.8              | -150.2       | 815.8        | -11.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                                           | 5.86            | 100.43      | 11,157.3              | -152.0       | 825.8        | -11.7                   | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                                           | 5.86            | 100.43      | 11,256.8              | -153.9       | 835.8        | -11.8                   | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                                           | 5.86            | 100.43      | 11,356.2              | -155.7       | 845.9        | -11.9                   | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                                           | 5.86            | 100.43      | 11,455.7              | -157.6       | 855.9        | -12.1                   | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                                           | 5.86            | 100.43      | 11,555.2              | -159.4       | 866.0        | -12.2                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop 2°/100'</b>                                |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,703.8                                           | 5.86            | 100.43      | 11,658.5              | -161.4       | 876.4        | -12.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                                           | 3.94            | 100.43      | 11,754.3              | -162.8       | 884.5        | -12.5                   | 2.00                    | -2.00                  | 0.00                  |
| 11,900.0                                           | 1.94            | 100.43      | 11,854.1              | -163.8       | 889.5        | -12.6                   | 2.00                    | -2.00                  | 0.00                  |
| <b>EOD @ Vert / Build 10°/100'</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,996.9                                           | 0.00            | 0.01        | 11,951.0              | -164.1       | 891.1        | -12.6                   | 2.00                    | -2.00                  | 0.00                  |
| 12,000.0                                           | 0.31            | 359.57      | 11,954.1              | -164.1       | 891.1        | -12.6                   | 10.00                   | 10.00                  | 0.00                  |
| 12,050.0                                           | 5.31            | 359.57      | 12,004.1              | -161.6       | 891.1        | -10.1                   | 10.00                   | 10.00                  | 0.00                  |
| 12,100.0                                           | 10.31           | 359.57      | 12,053.6              | -154.8       | 891.1        | -3.5                    | 10.00                   | 10.00                  | 0.00                  |
| 12,150.0                                           | 15.31           | 359.57      | 12,102.3              | -143.7       | 891.0        | 7.5                     | 10.00                   | 10.00                  | 0.00                  |
| 12,200.0                                           | 20.31           | 359.57      | 12,149.9              | -128.4       | 890.9        | 22.5                    | 10.00                   | 10.00                  | 0.00                  |
| 12,250.0                                           | 25.31           | 359.57      | 12,196.0              | -109.1       | 890.7        | 41.6                    | 10.00                   | 10.00                  | 0.00                  |
| 12,300.0                                           | 30.31           | 359.57      | 12,240.2              | -85.7        | 890.5        | 64.6                    | 10.00                   | 10.00                  | 0.00                  |
| 12,350.0                                           | 35.31           | 359.57      | 12,282.2              | -58.6        | 890.3        | 91.2                    | 10.00                   | 10.00                  | 0.00                  |
| 12,400.0                                           | 40.31           | 359.57      | 12,321.7              | -28.0        | 890.1        | 121.4                   | 10.00                   | 10.00                  | 0.00                  |
| 12,450.0                                           | 45.31           | 359.57      | 12,358.3              | 6.0          | 889.8        | 154.8                   | 10.00                   | 10.00                  | 0.00                  |
| 12,500.0                                           | 50.31           | 359.57      | 12,391.9              | 43.0         | 889.6        | 191.3                   | 10.00                   | 10.00                  | 0.00                  |
| 12,550.0                                           | 55.31           | 359.57      | 12,422.1              | 82.8         | 889.3        | 230.5                   | 10.00                   | 10.00                  | 0.00                  |
| 12,600.0                                           | 60.31           | 359.57      | 12,448.8              | 125.1        | 888.9        | 272.2                   | 10.00                   | 10.00                  | 0.00                  |
| 12,650.0                                           | 65.31           | 359.57      | 12,471.6              | 169.6        | 888.6        | 315.9                   | 10.00                   | 10.00                  | 0.00                  |
| 12,700.0                                           | 70.31           | 359.57      | 12,490.5              | 215.9        | 888.2        | 361.5                   | 10.00                   | 10.00                  | 0.00                  |
| 12,750.0                                           | 75.31           | 359.57      | 12,505.2              | 263.6        | 887.9        | 408.5                   | 10.00                   | 10.00                  | 0.00                  |
| 12,800.0                                           | 80.31           | 359.57      | 12,515.8              | 312.5        | 887.5        | 456.6                   | 10.00                   | 10.00                  | 0.00                  |
| 12,850.0                                           | 85.31           | 359.57      | 12,522.0              | 362.1        | 887.1        | 505.5                   | 10.00                   | 10.00                  | 0.00                  |
| <b>EOB @ 89.92° Inc / 359.57° Azm / 12524' TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,896.1                                           | 89.92           | 359.57      | 12,524.0              | 408.1        | 886.8        | 550.8                   | 10.00                   | 10.00                  | 0.00                  |
| 12,900.0                                           | 89.92           | 359.57      | 12,524.0              | 412.0        | 886.8        | 554.6                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                                           | 89.92           | 359.57      | 12,524.1              | 512.0        | 886.0        | 653.1                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                                           | 89.92           | 359.57      | 12,524.2              | 612.0        | 885.2        | 751.6                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                                           | 89.92           | 359.57      | 12,524.4              | 712.0        | 884.5        | 850.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                                           | 89.92           | 359.57      | 12,524.5              | 812.0        | 883.7        | 948.5                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                                           | 89.92           | 359.57      | 12,524.6              | 912.0        | 883.0        | 1,046.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                                           | 89.92           | 359.57      | 12,524.7              | 1,012.0      | 882.2        | 1,145.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                                           | 89.92           | 359.57      | 12,524.9              | 1,112.0      | 881.4        | 1,243.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                                           | 89.92           | 359.57      | 12,525.0              | 1,212.0      | 880.7        | 1,342.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                                           | 89.92           | 359.57      | 12,525.1              | 1,312.0      | 879.9        | 1,440.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                                           | 89.92           | 359.57      | 12,525.3              | 1,412.0      | 879.2        | 1,539.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                                           | 89.92           | 359.57      | 12,525.4              | 1,512.0      | 878.4        | 1,637.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                                           | 89.92           | 359.57      | 12,525.5              | 1,612.0      | 877.6        | 1,736.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                                           | 89.92           | 359.57      | 12,525.7              | 1,712.0      | 876.9        | 1,834.6                 | 0.00                    | 0.00                   | 0.00                  |



## Well Planning Report



Database: EDM 5000.1 Single User Db  
 Company: BTA Oil Producers, LLC  
 Project: Lea County, NM (NAD 83)  
 Site: Sec 22, T25-S, R33-E  
 Well: Rojo 7811 22 Fed Com #14Y  
 Wellbore: Wellbore #1  
 Design: Design #1

Local Co-ordinate Reference: Well Rojo 7811 22 Fed Com #14Y  
 TVD Reference: WELL @ 3370.0usft (Patterson #566)  
 MD Reference: WELL @ 3370.0usft (Patterson #566)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)       | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 14,300.0                    | 89.92           | 359.57      | 12,525.8              | 1,812.0      | 876.1        | 1,933.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                    | 89.92           | 359.57      | 12,525.9              | 1,912.0      | 875.4        | 2,031.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                    | 89.92           | 359.57      | 12,526.1              | 2,012.0      | 874.6        | 2,130.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                    | 89.92           | 359.57      | 12,526.2              | 2,112.0      | 873.8        | 2,228.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0                    | 89.92           | 359.57      | 12,526.3              | 2,212.0      | 873.1        | 2,326.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0                    | 89.92           | 359.57      | 12,526.5              | 2,312.0      | 872.3        | 2,425.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0                    | 89.92           | 359.57      | 12,526.6              | 2,411.9      | 871.6        | 2,523.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0                    | 89.92           | 359.57      | 12,526.7              | 2,511.9      | 870.8        | 2,622.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0                    | 89.92           | 359.57      | 12,526.8              | 2,611.9      | 870.1        | 2,720.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0                    | 89.92           | 359.57      | 12,527.0              | 2,711.9      | 869.3        | 2,819.2                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0                    | 89.92           | 359.57      | 12,527.1              | 2,811.9      | 868.5        | 2,917.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0                    | 89.92           | 359.57      | 12,527.2              | 2,911.9      | 867.8        | 3,016.1                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0                    | 89.92           | 359.57      | 12,527.4              | 3,011.9      | 867.0        | 3,114.6                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0                    | 89.92           | 359.57      | 12,527.5              | 3,111.9      | 866.3        | 3,213.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0                    | 89.92           | 359.57      | 12,527.6              | 3,211.9      | 865.5        | 3,311.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0                    | 89.92           | 359.57      | 12,527.8              | 3,311.9      | 864.7        | 3,409.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0                    | 89.92           | 359.57      | 12,527.9              | 3,411.9      | 864.0        | 3,508.4                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0                    | 89.92           | 359.57      | 12,528.0              | 3,511.9      | 863.2        | 3,606.9                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0                    | 89.92           | 359.57      | 12,528.2              | 3,611.9      | 862.5        | 3,705.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0                    | 89.92           | 359.57      | 12,528.3              | 3,711.9      | 861.7        | 3,803.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0                    | 89.92           | 359.57      | 12,528.4              | 3,811.9      | 860.9        | 3,902.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0                    | 89.92           | 359.57      | 12,528.6              | 3,911.9      | 860.2        | 4,000.7                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0                    | 89.92           | 359.57      | 12,528.7              | 4,011.9      | 859.4        | 4,099.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0                    | 89.92           | 359.57      | 12,528.8              | 4,111.9      | 858.7        | 4,197.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0                    | 89.92           | 359.57      | 12,528.9              | 4,211.9      | 857.9        | 4,296.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0                    | 89.92           | 359.57      | 12,529.1              | 4,311.9      | 857.1        | 4,394.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0                    | 89.92           | 359.57      | 12,529.2              | 4,411.9      | 856.4        | 4,493.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0                    | 89.92           | 359.57      | 12,529.3              | 4,511.9      | 855.6        | 4,591.5                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0                    | 89.92           | 359.57      | 12,529.5              | 4,611.9      | 854.9        | 4,689.9                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0                    | 89.92           | 359.57      | 12,529.6              | 4,711.9      | 854.1        | 4,788.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0                    | 89.92           | 359.57      | 12,529.7              | 4,811.9      | 853.4        | 4,886.8                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0                    | 89.92           | 359.57      | 12,529.9              | 4,911.9      | 852.6        | 4,985.3                 | 0.00                    | 0.00                   | 0.00                  |
| TD @ 17505' MD / 12530' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 17,504.6                    | 89.92           | 359.57      | 12,530.0              | 5,016.5      | 851.8        | 5,088.3                 | 0.00                    | 0.00                   | 0.00                  |

## Design Targets

| Target Name               | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude        |
|---------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|------------------|
| - hit/miss target         |               |              |            |              |              |                 |                |                 |                  |
| - Shape                   |               |              |            |              |              |                 |                |                 |                  |
| VP Rojo 7811 22 Fed       | 0.00          | 0.00         | 11,951.0   | -164.1       | 891.1        | 404,235.53      | 783,033.92     | 32° 6' 32.101 N | 103° 33' 9.806 W |
| - plan hits target center |               |              |            |              |              |                 |                |                 |                  |
| - Point                   |               |              |            |              |              |                 |                |                 |                  |
| PBHL Rojo 7811 22 F       | 0.00          | 0.00         | 12,530.0   | 5,016.5      | 851.8        | 409,416.10      | 782,994.60     | 32° 7' 23.367 N | 103° 33' 9.827 W |
| - plan hits target center |               |              |            |              |              |                 |                |                 |                  |
| - Point                   |               |              |            |              |              |                 |                |                 |                  |



# Well Planning Report



|           |                           |                              |                                    |
|-----------|---------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Rojo 7811 22 Fed Com #14Y     |
| Company:  | BTA Oil Producers, LLC    | TVD Reference:               | WELL @ 3370.0usft (Patterson #566) |
| Project:  | Lea County, NM (NAD 83)   | MD Reference:                | WELL @ 3370.0usft (Patterson #566) |
| Site:     | Sec 22, T25-S, R33-E      | North Reference:             | Grid                               |
| Well:     | Rojo 7811 22 Fed Com #14Y | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1               |                              |                                    |
| Design:   | Design #1                 |                              |                                    |

## Plan Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                     |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                             |
| 2,830.0                     | 2,830.0                     | 0.0               | 0.0             | Build 2°/100'                               |
| 3,123.0                     | 3,122.5                     | -2.7              | 14.7            | EOB @ 5.86° Inc / 100.43° Azm               |
| 11,703.8                    | 11,658.5                    | -161.4            | 876.4           | Drop 2°/100'                                |
| 11,996.9                    | 11,951.0                    | -164.1            | 891.1           | EOD @ Vert / Build 10°/100'                 |
| 12,896.1                    | 12,524.0                    | 408.1             | 886.8           | EOB @ 89.92° Inc / 359.57° Azm / 12524' TVD |
| 17,504.6                    | 12,530.0                    | 5,016.5           | 851.8           | TD @ 17505' MD / 12530' TVD                 |