

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM 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.**

AUG 17 2018

SUBMIT IN TRIPLICATE - Other instructions on page 2

|                                                                                                                                                     |                                                                |                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                    |                                                                | 5. Lease Serial No.<br>NMNM100335                                    |
| 2. Name of Operator<br>BTA OIL PRODUCERS LLC                                                                                                        |                                                                | 6. If Indian, Allottee or Tribe Name                                 |
| Contact: KATY REDDELL<br>E-Mail: kreddell@btaoil.com                                                                                                |                                                                | 7. If Unit or CA/Agreement, Name and/or No.                          |
| 3a. Address<br>104 S. PECOS<br>MIDLAND, TX 79701                                                                                                    | 3b. Phone No. (include area code)<br>Ph: 432-557-2869 Ext: 139 | 8. Well Name and No.<br>OGDEN 20509 32-29 FED COM 7H                 |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 32 T23S R28E NWSW 2440FSL 330FWL<br>32.260941 N Lat, 104.117104 W Lon |                                                                | 9. API Well No.<br>30-015-44341-00-X1                                |
|                                                                                                                                                     |                                                                | 10. Field and Pool or Exploratory Area<br>PURPLE SAGE-WOLFCAMP (GAS) |
|                                                                                                                                                     |                                                                | 11. County or Parish, State<br>EDDY COUNTY, NM                       |

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

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                     |
|-------------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize                   |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Deepen                    |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Hydraulic Fracturing      |
|                                                       | <input type="checkbox"/> Production (Start/Resume) |
|                                                       | <input type="checkbox"/> Reclamation               |
|                                                       | <input type="checkbox"/> Water Shut-Off            |
|                                                       | <input type="checkbox"/> Well Integrity            |
|                                                       | <input checked="" type="checkbox"/> Other          |
|                                                       | Change to Original A                               |
|                                                       | PD                                                 |
|                                                       | <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 recompletion 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 REQUEST THE FOLLOWING CHANGES TO THE ORIGINAL APD AS APPROVED.

ORIGINAL: 8.75" HOLE: 7" SET @ 9,477'MD; TVD: 9373'  
CHANGE TO: 8.75" HOLE: 7" SET @ 10,507'MD; TVD: 10,480'ORIGINAL: 6.125" HOLE: 4.5" SET @ 8,850'-17,142'MD; TVD: 8850'-9,450'  
CHANGE TO: 6.125" HOLE: 4.5" SET @ 9,900'-18,172'MD; TVD: 9,900'-10,480'

NO CHANGE TO CEMENT.

APPROVED

AUG 15 2018

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

Electronic Submission #427175 verified by the BLM Well Information System  
For BTA OIL PRODUCERS LLC, sent to the Carlsbad Field Office  
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/13/2018 (18PP2187SE)

|                                   |                          |
|-----------------------------------|--------------------------|
| Name (Printed/Typed) KATY REDDELL | Title REGULATORY ANALYST |
| Signature (Electronic Submission) | Date 07/13/2018          |

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

|                                                                                                                                                                                                                                                           |                                 |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Approved By <u>/s/ Zola Stevens</u>                                                                                                                                                                                                                       | Title <u>Petroleum Engineer</u> | Date <u>8-15-18</u> |
| 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 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)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

RW 8-23-18

# **BTA Oil Producers, LLC**

Eddy County, NM (NAD 83)

Ogden

Ogden #07H

Wellbore #1

Plan: Permit

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AUG 17 2018

DISTRICT II-ARTESIA O.C.D.

## **Standard Planning Report**

11 July, 2018

# BTA Planning Report

**Database:** EDM 5000.1 Single User Db  
**Company:** BTA Oil Producers, LLC  
**Project:** Eddy County, NM (NAD 83)  
**Site:** Ogden  
**Well:** Ogden #07H  
**Wellbore:** Wellbore #1  
**Design:** Permit

**Local Co-ordinate Reference:** Well Ogden #07H  
**TVD Reference:** WELL @ 3108.0usft (Original Well Elev)  
**MD Reference:** WELL @ 3108.0usft (Original Well Elev)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

|                    |                           |                             |              |
|--------------------|---------------------------|-----------------------------|--------------|
| <b>Project</b>     | Eddy County, NM (NAD 83)  |                             |              |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b>        | Ground Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                             |              |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   | Using geodetic scale factor |              |

|                              |          |                     |                 |                          |                  |
|------------------------------|----------|---------------------|-----------------|--------------------------|------------------|
| <b>Site</b>                  | Ogden    |                     |                 |                          |                  |
| <b>Site Position:</b>        |          | <b>Northing:</b>    | 458,731.15 usft | <b>Latitude:</b>         | 32° 15' 39.390 N |
| <b>From:</b>                 | Map      | <b>Easting:</b>     | 608,206.70 usft | <b>Longitude:</b>        | 104° 7' 1.212 W  |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.12 °           |

|                             |              |            |                            |                 |                                   |
|-----------------------------|--------------|------------|----------------------------|-----------------|-----------------------------------|
| <b>Well</b>                 | Ogden #07H   |            |                            |                 |                                   |
| <b>Well Position</b>        | <b>+N/-S</b> | -0.1 usft  | <b>Northing:</b>           | 458,731.05 usft | <b>Latitude:</b> 32° 15' 39.390 N |
|                             | <b>+E/-W</b> | -29.9 usft | <b>Easting:</b>            | 608,176.80 usft | <b>Longitude:</b> 104° 7' 1.560 W |
| <b>Position Uncertainty</b> |              | 0.0 usft   | <b>Wellhead Elevation:</b> | 0.0 usft        | <b>Ground Level:</b> 3,108.0 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF200510        | 12/31/2009         | 8.00                   | 60.18                | 48,756                     |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <b>Design</b>            | Permit                         |                     |                     |                      |     |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |     |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           |                     | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                            | 0.0                 | 0.0                 | 359.98               |     |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |               |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target        |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 9,907.0               | 0.00            | 0.00        | 9,907.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 10,807.0              | 90.00           | 359.98      | 10,480.0              | 573.0        | -0.2         | 10.00                   | 10.00                  | 0.00                  | 359.98  |               |
| 18,172.2              | 90.00           | 359.98      | 10,480.0              | 7,938.1      | -2.1         | 0.00                    | 0.00                   | 0.00                  | 0.00    | Ogden #7H BHL |

# BTA

## Planning Report

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**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 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                        |
| 2,900.0                     | 0.00               | 0.00           | 2,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,000.0                     | 0.00               | 0.00           | 3,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,100.0                     | 0.00               | 0.00           | 3,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,200.0                     | 0.00               | 0.00           | 3,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,300.0                     | 0.00               | 0.00           | 3,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,400.0                     | 0.00               | 0.00           | 3,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,500.0                     | 0.00               | 0.00           | 3,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,600.0                     | 0.00               | 0.00           | 3,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,700.0                     | 0.00               | 0.00           | 3,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,800.0                     | 0.00               | 0.00           | 3,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,900.0                     | 0.00               | 0.00           | 3,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,000.0                     | 0.00               | 0.00           | 4,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,100.0                     | 0.00               | 0.00           | 4,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,200.0                     | 0.00               | 0.00           | 4,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,300.0                     | 0.00               | 0.00           | 4,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,400.0                     | 0.00               | 0.00           | 4,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,500.0                     | 0.00               | 0.00           | 4,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,600.0                     | 0.00               | 0.00           | 4,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,700.0                     | 0.00               | 0.00           | 4,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,800.0                     | 0.00               | 0.00           | 4,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,900.0                     | 0.00               | 0.00           | 4,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,000.0                     | 0.00               | 0.00           | 5,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,100.0                     | 0.00               | 0.00           | 5,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,200.0                     | 0.00               | 0.00           | 5,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,300.0                     | 0.00               | 0.00           | 5,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |

# BTA Planning Report

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| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,400.0                     | 0.00               | 0.00           | 5,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,500.0                     | 0.00               | 0.00           | 5,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,600.0                     | 0.00               | 0.00           | 5,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,700.0                     | 0.00               | 0.00           | 5,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,800.0                     | 0.00               | 0.00           | 5,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,900.0                     | 0.00               | 0.00           | 5,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,000.0                     | 0.00               | 0.00           | 6,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,100.0                     | 0.00               | 0.00           | 6,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,200.0                     | 0.00               | 0.00           | 6,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,300.0                     | 0.00               | 0.00           | 6,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,400.0                     | 0.00               | 0.00           | 6,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,500.0                     | 0.00               | 0.00           | 6,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,600.0                     | 0.00               | 0.00           | 6,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,700.0                     | 0.00               | 0.00           | 6,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,800.0                     | 0.00               | 0.00           | 6,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 6,900.0                     | 0.00               | 0.00           | 6,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,000.0                     | 0.00               | 0.00           | 7,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,100.0                     | 0.00               | 0.00           | 7,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,200.0                     | 0.00               | 0.00           | 7,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,300.0                     | 0.00               | 0.00           | 7,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,400.0                     | 0.00               | 0.00           | 7,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,500.0                     | 0.00               | 0.00           | 7,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,600.0                     | 0.00               | 0.00           | 7,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,700.0                     | 0.00               | 0.00           | 7,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,800.0                     | 0.00               | 0.00           | 7,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 7,900.0                     | 0.00               | 0.00           | 7,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,000.0                     | 0.00               | 0.00           | 8,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,100.0                     | 0.00               | 0.00           | 8,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,200.0                     | 0.00               | 0.00           | 8,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,300.0                     | 0.00               | 0.00           | 8,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,400.0                     | 0.00               | 0.00           | 8,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,500.0                     | 0.00               | 0.00           | 8,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,600.0                     | 0.00               | 0.00           | 8,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,700.0                     | 0.00               | 0.00           | 8,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,800.0                     | 0.00               | 0.00           | 8,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 8,900.0                     | 0.00               | 0.00           | 8,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,000.0                     | 0.00               | 0.00           | 9,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,100.0                     | 0.00               | 0.00           | 9,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,200.0                     | 0.00               | 0.00           | 9,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,300.0                     | 0.00               | 0.00           | 9,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,400.0                     | 0.00               | 0.00           | 9,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,500.0                     | 0.00               | 0.00           | 9,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,600.0                     | 0.00               | 0.00           | 9,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,700.0                     | 0.00               | 0.00           | 9,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,800.0                     | 0.00               | 0.00           | 9,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,900.0                     | 0.00               | 0.00           | 9,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 9,907.0                     | 0.00               | 0.00           | 9,907.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 10,000.0                    | 9.30               | 359.98         | 9,999.6                     | 7.5             | 0.0             | 7.5                           | 10.00                         | 10.00                        | 0.00                        |
| 10,100.0                    | 19.30              | 359.98         | 10,096.4                    | 32.2            | 0.0             | 32.2                          | 10.00                         | 10.00                        | 0.00                        |
| 10,200.0                    | 29.30              | 359.98         | 10,187.4                    | 73.3            | 0.0             | 73.3                          | 10.00                         | 10.00                        | 0.00                        |
| 10,300.0                    | 39.30              | 359.98         | 10,269.9                    | 129.6           | 0.0             | 129.6                         | 10.00                         | 10.00                        | 0.00                        |
| 10,400.0                    | 49.30              | 359.98         | 10,341.4                    | 199.3           | -0.1            | 199.3                         | 10.00                         | 10.00                        | 0.00                        |
| 10,500.0                    | 59.30              | 359.98         | 10,399.7                    | 280.4           | -0.1            | 280.4                         | 10.00                         | 10.00                        | 0.00                        |
| 10,600.0                    | 69.30              | 359.98         | 10,443.0                    | 370.4           | -0.1            | 370.4                         | 10.00                         | 10.00                        | 0.00                        |

# BTA Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Eddy County, NM (NAD 83)  
Site: Ogden  
Well: Ogden #07H  
Wellbore: Wellbore #1  
Design: Permit

Local Co-ordinate Reference: Well Ogden #07H  
TVD Reference: WELL @ 3108.0usft (Original Well Elev)  
MD Reference: WELL @ 3108.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,700.0                    | 79.30              | 359.98         | 10,470.0                    | 466.5           | -0.1            | 466.5                         | 10.00                         | 10.00                        | 0.00                        |
| 10,800.0                    | 89.30              | 359.98         | 10,480.0                    | 565.9           | -0.1            | 565.9                         | 10.00                         | 10.00                        | 0.00                        |
| 10,807.0                    | 90.00              | 359.98         | 10,480.0                    | 573.0           | -0.2            | 573.0                         | 10.00                         | 10.00                        | 0.00                        |
| 10,900.0                    | 90.00              | 359.98         | 10,480.0                    | 665.9           | -0.2            | 665.9                         | 0.00                          | 0.00                         | 0.00                        |
| 11,000.0                    | 90.00              | 359.98         | 10,480.0                    | 765.9           | -0.2            | 765.9                         | 0.00                          | 0.00                         | 0.00                        |
| 11,100.0                    | 90.00              | 359.98         | 10,480.0                    | 865.9           | -0.2            | 865.9                         | 0.00                          | 0.00                         | 0.00                        |
| 11,200.0                    | 90.00              | 359.98         | 10,480.0                    | 965.9           | -0.3            | 965.9                         | 0.00                          | 0.00                         | 0.00                        |
| 11,300.0                    | 90.00              | 359.98         | 10,480.0                    | 1,065.9         | -0.3            | 1,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,400.0                    | 90.00              | 359.98         | 10,480.0                    | 1,165.9         | -0.3            | 1,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,500.0                    | 90.00              | 359.98         | 10,480.0                    | 1,265.9         | -0.3            | 1,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,600.0                    | 90.00              | 359.98         | 10,480.0                    | 1,365.9         | -0.4            | 1,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,700.0                    | 90.00              | 359.98         | 10,480.0                    | 1,465.9         | -0.4            | 1,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,800.0                    | 90.00              | 359.98         | 10,480.0                    | 1,565.9         | -0.4            | 1,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,900.0                    | 90.00              | 359.98         | 10,480.0                    | 1,665.9         | -0.4            | 1,665.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,000.0                    | 90.00              | 359.98         | 10,480.0                    | 1,765.9         | -0.5            | 1,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,100.0                    | 90.00              | 359.98         | 10,480.0                    | 1,865.9         | -0.5            | 1,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,200.0                    | 90.00              | 359.98         | 10,480.0                    | 1,965.9         | -0.5            | 1,965.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,300.0                    | 90.00              | 359.98         | 10,480.0                    | 2,065.9         | -0.5            | 2,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,400.0                    | 90.00              | 359.98         | 10,480.0                    | 2,165.9         | -0.6            | 2,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,500.0                    | 90.00              | 359.98         | 10,480.0                    | 2,265.9         | -0.6            | 2,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,600.0                    | 90.00              | 359.98         | 10,480.0                    | 2,365.9         | -0.6            | 2,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,700.0                    | 90.00              | 359.98         | 10,480.0                    | 2,465.9         | -0.6            | 2,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,800.0                    | 90.00              | 359.98         | 10,480.0                    | 2,565.9         | -0.7            | 2,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 12,900.0                    | 90.00              | 359.98         | 10,480.0                    | 2,665.9         | -0.7            | 2,665.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,000.0                    | 90.00              | 359.98         | 10,480.0                    | 2,765.9         | -0.7            | 2,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,100.0                    | 90.00              | 359.98         | 10,480.0                    | 2,865.9         | -0.8            | 2,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,200.0                    | 90.00              | 359.98         | 10,480.0                    | 2,965.9         | -0.8            | 2,965.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,300.0                    | 90.00              | 359.98         | 10,480.0                    | 3,065.9         | -0.8            | 3,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,400.0                    | 90.00              | 359.98         | 10,480.0                    | 3,165.9         | -0.8            | 3,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,500.0                    | 90.00              | 359.98         | 10,480.0                    | 3,265.9         | -0.9            | 3,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,600.0                    | 90.00              | 359.98         | 10,480.0                    | 3,365.9         | -0.9            | 3,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,700.0                    | 90.00              | 359.98         | 10,480.0                    | 3,465.9         | -0.9            | 3,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,800.0                    | 90.00              | 359.98         | 10,480.0                    | 3,565.9         | -0.9            | 3,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 13,900.0                    | 90.00              | 359.98         | 10,480.0                    | 3,665.9         | -1.0            | 3,665.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,000.0                    | 90.00              | 359.98         | 10,480.0                    | 3,765.9         | -1.0            | 3,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,100.0                    | 90.00              | 359.98         | 10,480.0                    | 3,865.9         | -1.0            | 3,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,200.0                    | 90.00              | 359.98         | 10,480.0                    | 3,965.9         | -1.0            | 3,965.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,300.0                    | 90.00              | 359.98         | 10,480.0                    | 4,065.9         | -1.1            | 4,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,400.0                    | 90.00              | 359.98         | 10,480.0                    | 4,165.9         | -1.1            | 4,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,500.0                    | 90.00              | 359.98         | 10,480.0                    | 4,265.9         | -1.1            | 4,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,600.0                    | 90.00              | 359.98         | 10,480.0                    | 4,365.9         | -1.1            | 4,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,700.0                    | 90.00              | 359.98         | 10,480.0                    | 4,465.9         | -1.2            | 4,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,800.0                    | 90.00              | 359.98         | 10,480.0                    | 4,565.9         | -1.2            | 4,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 14,900.0                    | 90.00              | 359.98         | 10,480.0                    | 4,665.9         | -1.2            | 4,665.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,000.0                    | 90.00              | 359.98         | 10,480.0                    | 4,765.9         | -1.3            | 4,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,100.0                    | 90.00              | 359.98         | 10,480.0                    | 4,865.9         | -1.3            | 4,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,200.0                    | 90.00              | 359.98         | 10,480.0                    | 4,965.9         | -1.3            | 4,965.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,300.0                    | 90.00              | 359.98         | 10,480.0                    | 5,065.9         | -1.3            | 5,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,400.0                    | 90.00              | 359.98         | 10,480.0                    | 5,165.9         | -1.4            | 5,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,500.0                    | 90.00              | 359.98         | 10,480.0                    | 5,265.9         | -1.4            | 5,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,600.0                    | 90.00              | 359.98         | 10,480.0                    | 5,365.9         | -1.4            | 5,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,700.0                    | 90.00              | 359.98         | 10,480.0                    | 5,465.9         | -1.4            | 5,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,800.0                    | 90.00              | 359.98         | 10,480.0                    | 5,565.9         | -1.5            | 5,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 15,900.0                    | 90.00              | 359.98         | 10,480.0                    | 5,665.9         | -1.5            | 5,665.9                       | 0.00                          | 0.00                         | 0.00                        |

**BTA**  
Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Eddy County, NM (NAD 83)  
Site: Ogden  
Well: Ogden #07H  
Wellbore: Wellbore #1  
Design: Permit

Local Co-ordinate Reference: Well Ogden #07H  
TVD Reference: WELL @ 3108.0usft (Original Well Elev)  
MD Reference: WELL @ 3108.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

**Planned Survey**

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 16,000.0                    | 90.00              | 359.98         | 10,480.0                    | 5,765.9         | -1.5            | 5,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,100.0                    | 90.00              | 359.98         | 10,480.0                    | 5,865.9         | -1.5            | 5,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,200.0                    | 90.00              | 359.98         | 10,480.0                    | 5,965.9         | -1.6            | 5,965.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,300.0                    | 90.00              | 359.98         | 10,480.0                    | 6,065.9         | -1.6            | 6,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,400.0                    | 90.00              | 359.98         | 10,480.0                    | 6,165.9         | -1.6            | 6,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,500.0                    | 90.00              | 359.98         | 10,480.0                    | 6,265.9         | -1.6            | 6,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,600.0                    | 90.00              | 359.98         | 10,480.0                    | 6,365.9         | -1.7            | 6,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,700.0                    | 90.00              | 359.98         | 10,480.0                    | 6,465.9         | -1.7            | 6,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,800.0                    | 90.00              | 359.98         | 10,480.0                    | 6,565.9         | -1.7            | 6,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 16,900.0                    | 90.00              | 359.98         | 10,480.0                    | 6,665.9         | -1.8            | 6,665.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,000.0                    | 90.00              | 359.98         | 10,480.0                    | 6,765.9         | -1.8            | 6,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,100.0                    | 90.00              | 359.98         | 10,480.0                    | 6,865.9         | -1.8            | 6,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,200.0                    | 90.00              | 359.98         | 10,480.0                    | 6,965.9         | -1.8            | 6,965.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,300.0                    | 90.00              | 359.98         | 10,480.0                    | 7,065.9         | -1.9            | 7,065.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,400.0                    | 90.00              | 359.98         | 10,480.0                    | 7,165.9         | -1.9            | 7,165.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,500.0                    | 90.00              | 359.98         | 10,480.0                    | 7,265.9         | -1.9            | 7,265.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,600.0                    | 90.00              | 359.98         | 10,480.0                    | 7,365.9         | -1.9            | 7,365.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,700.0                    | 90.00              | 359.98         | 10,480.0                    | 7,465.9         | -2.0            | 7,465.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,800.0                    | 90.00              | 359.98         | 10,480.0                    | 7,565.9         | -2.0            | 7,565.9                       | 0.00                          | 0.00                         | 0.00                        |
| 17,900.0                    | 90.00              | 359.98         | 10,480.0                    | 7,665.9         | -2.0            | 7,665.9                       | 0.00                          | 0.00                         | 0.00                        |
| 18,000.0                    | 90.00              | 359.98         | 10,480.0                    | 7,765.9         | -2.0            | 7,765.9                       | 0.00                          | 0.00                         | 0.00                        |
| 18,100.0                    | 90.00              | 359.98         | 10,480.0                    | 7,865.9         | -2.1            | 7,865.9                       | 0.00                          | 0.00                         | 0.00                        |
| 18,172.2                    | 90.00              | 359.98         | 10,480.0                    | 7,938.1         | -2.1            | 7,938.1                       | 0.00                          | 0.00                         | 0.00                        |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape           | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude       |
|-------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-----------------|
| Ogden #7H BHL<br>- plan hits target center<br>- Point | 0.00             | 0.07            | 10,480.0      | 7,938.1         | -2.1            | 466,668.45         | 608,174.71        | 32° 16' 57.938 N | 104° 7' 1.398 W |