

**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 Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011

Permit 293399

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|                                                                                            |                                                 |                               |
|--------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|
| 1. Operator Name and Address<br>BTA OIL PRODUCERS, LLC<br>104 S Pecos<br>Midland, TX 79701 |                                                 | 2. OGRID Number<br>260297     |
|                                                                                            |                                                 | 3. API Number<br>30-025-48548 |
| 4. Property Code<br>327076                                                                 | 5. Property Name<br>SOUTH RIDGE 8030 2 11 STATE | 6. Well No.<br>005H           |

**7. Surface Location**

|               |              |                 |              |              |                  |               |                   |               |               |
|---------------|--------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>C | Section<br>2 | Township<br>23S | Range<br>34E | Lot Idn<br>3 | Feet From<br>518 | N/S Line<br>N | Feet From<br>1726 | E/W Line<br>W | County<br>Lea |
|---------------|--------------|-----------------|--------------|--------------|------------------|---------------|-------------------|---------------|---------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                 |               |                   |               |               |
|---------------|---------------|-----------------|--------------|--------------|-----------------|---------------|-------------------|---------------|---------------|
| UL - Lot<br>M | Section<br>11 | Township<br>23S | Range<br>34E | Lot Idn<br>M | Feet From<br>50 | N/S Line<br>S | Feet From<br>1140 | E/W Line<br>W | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|-----------------|---------------|-------------------|---------------|---------------|

**9. Pool Information**

|                              |       |
|------------------------------|-------|
| OJO CHISO;BONE SPRING, SOUTH | 97293 |
|------------------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3387 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>10207 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>6/9/2021          |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 54.5             | 1750          | 1480            | 0             |
| Int1 | 12.25     | 9.625       | 40               | 5422          | 1635            | 0             |
| Prod | 8.75      | 5.5         | 17               | 200456        | 3120            | 4422          |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 5000             | 5000          | Cameron      |

|                                                                                                                                                                                                                                                                                                                      |                                  |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.<br><br>Signature: | <b>OIL CONSERVATION DIVISION</b> |                                 |
| Printed Name: Electronically filed by Katy Reddell                                                                                                                                                                                                                                                                   | Approved By: Paul F Kautz        |                                 |
| Title:                                                                                                                                                                                                                                                                                                               | Title: Geologist                 |                                 |
| Email Address: kreddell@btaoil.com                                                                                                                                                                                                                                                                                   | Approved Date: 3/12/2021         | Expiration Date: 3/12/2023      |
| Date: 3/12/2021                                                                                                                                                                                                                                                                                                      | Phone: 432-682-3753              | Conditions of Approval Attached |

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## DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico  
Energy, Minerals & Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102

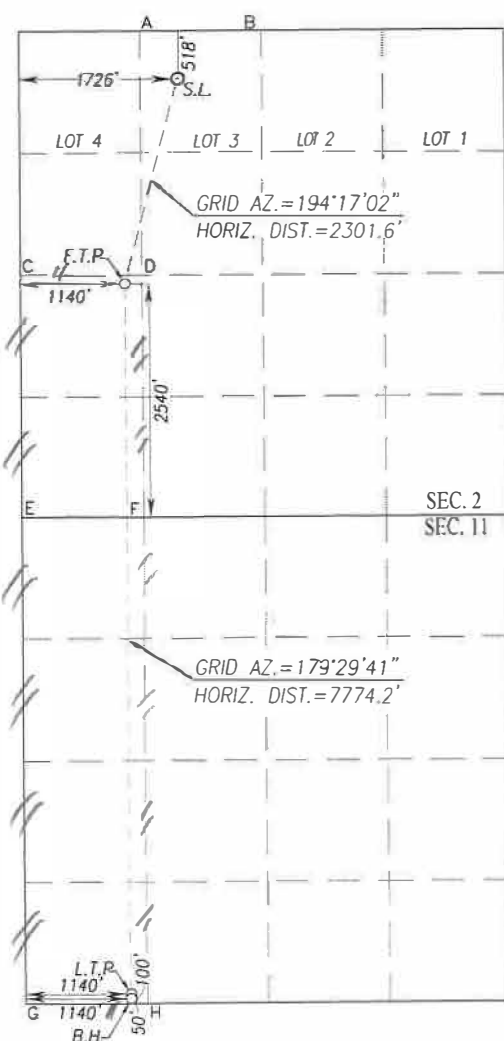
Revised August 1, 2011

Submit one copy to appropriate  
District Office☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                      |                                                     |                      |                                                  |                             |                                  |                              |                               |                      |
|------------------------------------------------|----------------------|-----------------------------------------------------|----------------------|--------------------------------------------------|-----------------------------|----------------------------------|------------------------------|-------------------------------|----------------------|
| API Number                                     |                      | Pool Code<br><b>97293</b>                           |                      | Pool Name<br><b>OJO CHISO;BONE SPRING, SOUTH</b> |                             |                                  |                              |                               |                      |
| Property Code<br><b>327076</b>                 |                      | Property Name<br><b>SOUTH RIDGE 8030 2-11 STATE</b> |                      |                                                  |                             |                                  |                              | Well Number<br><b>5H</b>      |                      |
| OGRID No.<br><b>260297</b>                     |                      | Operator Name<br><b>BTA OIL PRODUCERS, LLC</b>      |                      |                                                  |                             |                                  |                              | Elevation<br><b>3387'</b>     |                      |
| Surface Location                               |                      |                                                     |                      |                                                  |                             |                                  |                              |                               |                      |
| UL or lot No.<br><b>3</b>                      | Section<br><b>2</b>  | Tcwnship<br><b>23-S</b>                             | Range<br><b>34-E</b> | Lot Idn                                          | Feet from the<br><b>518</b> | North/South line<br><b>NORTH</b> | Feet from the<br><b>1726</b> | East/West line<br><b>WEST</b> | County<br><b>LEA</b> |
| Bottom Hole Location If Different From Surface |                      |                                                     |                      |                                                  |                             |                                  |                              |                               |                      |
| UL or lot No.<br><b>M</b>                      | Section<br><b>11</b> | Tcwnship<br><b>23-S</b>                             | Range<br><b>34-E</b> | Lot Idn                                          | Feet from the<br><b>50</b>  | North/South line<br><b>SOUTH</b> | Feet from the<br><b>1140</b> | East/West line<br><b>WEST</b> | County<br><b>LEA</b> |
| Dedicated Acres<br><b>240</b>                  |                      | Joint or Infill                                     |                      | Consolidation Code                               |                             | Order No.                        |                              |                               |                      |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



| SCALE: 1"=2000'                  |                      |
|----------------------------------|----------------------|
| GEODETIC COORDINATES             | GEODETIC COORDINATES |
| NAD 83 NME                       | NAD 27 NME           |
| SURFACE LOCATION                 | SURFACE LOCATION     |
| Y= 488378.0 N                    | Y= 488317.8 N        |
| X= 816055.4 E                    | X= 774871.8 E        |
| LAT.=32.339486° N                | LAT.=32.339362° N    |
| LONG.=103.443835° W              | LONG.=103.443357° W  |
| FIRST TAKE POINT                 | FIRST TAKE POINT     |
| NAD 83 NME                       | NAD 27 NME           |
| Y= 486147.9 N                    | Y= 486087.9 N        |
| X= 815487.6 E                    | X= 774304.0 E        |
| LAT.=32.333370° N                | LAT.=32.333246° N    |
| LONG.=103.445733° W              | LONG.=103.445255° W  |
| CORNER COORDINATES TABLE         |                      |
| NAD 27 NME                       |                      |
| A - Y= 488832.4 N, X= 774462.3 E |                      |
| B - Y= 488843.3 N, X= 775782.6 E |                      |
| C - Y= 486176.1 N, X= 773163.4 E |                      |
| D - Y= 486185.2 N, X= 774485.2 E |                      |
| E - Y= 483539.8 N, X= 773186.4 E |                      |
| F - Y= 483549.8 N, X= 774508.0 E |                      |
| G - Y= 478255.9 N, X= 773233.1 E |                      |
| H - Y= 478267.0 N, X= 774553.5 E |                      |
| CORNER COORDINATES TABLE         |                      |
| NAD 83 NME                       |                      |
| A - Y= 488892.5 N, X= 815645.9 E |                      |
| B - Y= 488903.5 N, X= 816966.2 E |                      |
| C - Y= 486236.1 N, X= 814347.0 E |                      |
| D - Y= 486245.3 N, X= 815668.8 E |                      |
| E - Y= 483599.8 N, X= 814370.0 E |                      |
| F - Y= 483609.8 N, X= 815691.7 E |                      |
| G - Y= 478315.7 N, X= 814416.9 E |                      |
| H - Y= 478326.8 N, X= 815737.3 E |                      |
| LAST TAKE POINT                  | LAST TAKE POINT      |
| NAD 83 NME                       | NAD 27 NME           |
| Y= 478425.3 N                    | Y= 478365.4 N        |
| X= 815555.7 E                    | X= 774371.9 E        |
| LAT.=32.312143° N                | LAT.=32.312018° N    |
| LONG.=103.445719° W              | LONG.=103.445242° W  |
| BOTTOM HOLE LOCATION             | BOTTOM HOLE LOCATION |
| NAD 83 NME                       | NAD 27 NME           |
| Y= 478375.3 N                    | Y= 478315.5 N        |
| X= 815556.2 E                    | X= 774372.4 E        |
| LAT.=32.312005° N                | LAT.=32.311881° N    |
| LONG.=103.445719° W              | LONG.=103.445242° W  |

## OPERATOR CERTIFICATION

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

*Sammy Hajar*  
Signature

3/9/2021

Date

Sammy Hajar

Printed Name

SHAJAR@BTAOIL.COM

E-mail Address

## SURVEYOR CERTIFICATION

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.

DECEMBER 16, 2020

Date of Survey

Signature of Professional Surveyor

RONALD J. EIDSON

NEW MEXICO

3239

REGISTERED SURVEYOR

Ronald J. Eidson

12641

Ronald J. Eidson

3239

ACK REL W O 20110506 JWSC W O 20 11 0570

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

## GAS CAPTURE PLAN

Date: 3/12/2021

☒ Original

Operator & OGRID No.: [260297] BTA OIL PRODUCERS, LLC

☐ Amended - Reason for  
Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                         | API          | Well Location (ULSTR) | Footages    | Expected MCF/D | Flared or Vented | Comments |
|-----------------------------------|--------------|-----------------------|-------------|----------------|------------------|----------|
| SOUTH RIDGE 8030 2 11 STATE #005H | 30-025-48548 | C-2-23S-34E           | 0518N 1726W | 2000           | Flared           |          |

### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA MIDSTREAM SERVICES LLC and will be connected to TARGA MIDSTREAM SERVICES LLC High/Low Pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to High/Low Pressure gathering system. BTA OIL PRODUCERS, LLC provides (periodically) to TARGA MIDSTREAM SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, BTA OIL PRODUCERS, LLC and TARGA MIDSTREAM SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA MIDSTREAM SERVICES LLC Processing Plant located in Sec. 03, Twn. 22S, Rng. 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is BTA OIL PRODUCERS, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Comments

Permit 293399

PERMIT COMMENTS

|                                                                                                   |  |                                            |
|---------------------------------------------------------------------------------------------------|--|--------------------------------------------|
| Operator Name and Address:<br>BTA OIL PRODUCERS, LLC [260297]<br>104 S Pecos<br>Midland, TX 79701 |  | API Number:<br>30-025-48548                |
|                                                                                                   |  | Well:<br>SOUTH RIDGE 8030 2 11 STATE #005H |

|            |         |              |
|------------|---------|--------------|
| Created By | Comment | Comment Date |
|------------|---------|--------------|

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Form APD Conditions

Permit 293399

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                   |                                            |
|---------------------------------------------------------------------------------------------------|--------------------------------------------|
| Operator Name and Address:<br>BTA OIL PRODUCERS, LLC [260297]<br>104 S Pecos<br>Midland, TX 79701 | API Number:<br>30-025-48548                |
|                                                                                                   | Well:<br>SOUTH RIDGE 8030 2 11 STATE #005H |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCD<br>Reviewer | Condition                                                                                                                                                                                                                                                                                                                                                                                              |
| pkautz          | Notify OCD 24 hours prior to casing & cement                                                                                                                                                                                                                                                                                                                                                           |
| pkautz          | Will require a File As Drilled C-102 and a Directional Survey with the C-104                                                                                                                                                                                                                                                                                                                           |
| pkautz          | 1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --                                                                                                                                                                                                                                                         |
| pkautz          | If cement does not circulate to surface, must run temperature survey or other log to determine top of cement                                                                                                                                                                                                                                                                                           |
| pkautz          | 1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104                                                    |
| pkautz          | It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required. |
| pkautz          | Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.                                      |

## **BTA Oil Producers, LLC**

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

**South Ridge**

**South Ridge #05H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report - Geographic**

**09 March, 2021**

**Microsoft**  
Planning Report - Geographic

|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | EDM16                   | <b>Local Co-ordinate Reference:</b> | Well South Ridge #05H                  |
| <b>Company:</b>  | BTA Oil Producers, LLC  | <b>TVD Reference:</b>               | WELL @ 3387.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>MD Reference:</b>                | WELL @ 3387.0usft (Original Well Elev) |
| <b>Site:</b>     | South Ridge             | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | South Ridge #05H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | Wellbore #1             |                                     |                                        |
| <b>Design:</b>   | Design #1               |                                     |                                        |

|                    |                                         |                      |                             |
|--------------------|-----------------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | Lea County, NM (NAD 83), Lea County, NM |                      |                             |
| <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>                  | South Ridge |                     |                   |
| <b>Site Position:</b>        |             | <b>Northing:</b>    | 486,511.00 usft   |
| <b>From:</b>                 | Map         | <b>Easting:</b>     | 815,469.00 usft   |
| <b>Position Uncertainty:</b> | 0.0 usft    | <b>Slot Radius:</b> | 13-3/16 "         |
|                              |             | <b>Latitude:</b>    | 32° 20' 3.726 N   |
|                              |             | <b>Longitude:</b>   | 103° 26' 44.820 W |

|                             |                  |                            |                   |
|-----------------------------|------------------|----------------------------|-------------------|
| <b>Well</b>                 | South Ridge #05H |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>     | 0.0 usft                   | <b>Northing:</b>  |
|                             | <b>+E/-W</b>     | 0.0 usft                   | <b>Easting:</b>   |
| <b>Position Uncertainty</b> | 0.0 usft         | <b>Wellhead Elevation:</b> | usft              |
| <b>Grid Convergence:</b>    | 0.48 °           | <b>Latitude:</b>           | 32° 20' 22.152 N  |
|                             |                  | <b>Longitude:</b>          | 103° 26' 37.805 W |
|                             |                  | <b>Ground Level:</b>       | 3,387.0 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         | 7.70                   | 60.37                | 48,877.84673987            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Design #1                      |                     |                      |                      |
| <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                  | 182.86               |

|                                 |                        |                                  |                  |                |
|---------------------------------|------------------------|----------------------------------|------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 3/9/2021                         |                  |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b>         | <b>Tool Name</b> | <b>Remarks</b> |
| 1                               | 0.0                    | 20,044.9 Design #1 (Wellbore #1) |                  |                |

**Microsoft**  
Planning Report - Geographic

|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | EDM16                   | <b>Local Co-ordinate Reference:</b> | Well South Ridge #05H                  |
| <b>Company:</b>  | BTA Oil Producers, LLC  | <b>TVD Reference:</b>               | WELL @ 3387.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>MD Reference:</b>                | WELL @ 3387.0usft (Original Well Elev) |
| <b>Site:</b>     | South Ridge             | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | South Ridge #05H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | Wellbore #1             |                                     |                                        |
| <b>Design:</b>   | Design #1               |                                     |                                        |

| 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    |                  |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 2,400.0               | 8.00            | 270.00      | 2,398.7               | 0.0          | -27.9        | 2.00                    | 2.00                   | 0.00                  | 270.00  |                  |
| 6,209.9               | 8.00            | 270.00      | 6,171.6               | 0.0          | -558.1       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 6,609.9               | 0.00            | 0.00        | 6,570.3               | 0.0          | -586.0       | 2.00                    | -2.00                  | 0.00                  | 180.00  |                  |
| 9,719.2               | 0.00            | 0.00        | 9,679.5               | 0.0          | -586.0       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 9,769.2               | 0.00            | 0.00        | 9,729.5               | 0.0          | -586.0       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 10,519.2              | 90.00           | 179.50      | 10,207.0              | -477.4       | -581.9       | 12.00                   | 12.00                  | 0.00                  | 179.50  |                  |
| 20,044.9              | 90.00           | 179.50      | 10,207.0              | -10,002.7    | -499.2       | 0.00                    | 0.00                   | 0.00                  | 0.00    | South Ridge #05H |

**Microsoft**  
Planning Report - Geographic

|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | EDM16                   | <b>Local Co-ordinate Reference:</b> | Well South Ridge #05H                  |
| <b>Company:</b>  | BTA Oil Producers, LLC  | <b>TVD Reference:</b>               | WELL @ 3387.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>MD Reference:</b>                | WELL @ 3387.0usft (Original Well Elev) |
| <b>Site:</b>     | South Ridge             | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | South Ridge #05H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | Wellbore #1             |                                     |                                        |
| <b>Design:</b>   | Design #1               |                                     |                                        |

| Planned Survey        |                 |             |                       |              |              |                     |                    |                  |                   |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,600.0               | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,700.0               | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,800.0               | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 1,900.0               | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 488,378.00          | 816,055.40         | 32° 20' 22.152 N | 103° 26' 37.805 W |
| 2,100.0               | 2.00            | 270.00      | 2,100.0               | 0.0          | -1.7         | 488,378.00          | 816,053.65         | 32° 20' 22.152 N | 103° 26' 37.825 W |
| 2,200.0               | 4.00            | 270.00      | 2,199.8               | 0.0          | -7.0         | 488,378.00          | 816,048.42         | 32° 20' 22.152 N | 103° 26' 37.886 W |
| 2,300.0               | 6.00            | 270.00      | 2,299.5               | 0.0          | -15.7        | 488,378.00          | 816,039.70         | 32° 20' 22.153 N | 103° 26' 37.988 W |
| 2,400.0               | 8.00            | 270.00      | 2,398.7               | 0.0          | -27.9        | 488,378.00          | 816,027.52         | 32° 20' 22.154 N | 103° 26' 38.130 W |
| 2,500.0               | 8.00            | 270.00      | 2,497.7               | 0.0          | -41.8        | 488,378.00          | 816,013.60         | 32° 20' 22.155 N | 103° 26' 38.292 W |
| 2,600.0               | 8.00            | 270.00      | 2,596.8               | 0.0          | -55.7        | 488,378.00          | 815,999.68         | 32° 20' 22.156 N | 103° 26' 38.454 W |
| 2,700.0               | 8.00            | 270.00      | 2,695.8               | 0.0          | -69.6        | 488,378.00          | 815,985.77         | 32° 20' 22.157 N | 103° 26' 38.617 W |
| 2,800.0               | 8.00            | 270.00      | 2,794.8               | 0.0          | -83.5        | 488,378.00          | 815,971.85         | 32° 20' 22.159 N | 103° 26' 38.779 W |
| 2,900.0               | 8.00            | 270.00      | 2,893.8               | 0.0          | -97.5        | 488,378.00          | 815,957.93         | 32° 20' 22.160 N | 103° 26' 38.941 W |
| 3,000.0               | 8.00            | 270.00      | 2,992.9               | 0.0          | -111.4       | 488,378.00          | 815,944.01         | 32° 20' 22.161 N | 103° 26' 39.103 W |
| 3,100.0               | 8.00            | 270.00      | 3,091.9               | 0.0          | -125.3       | 488,378.00          | 815,930.10         | 32° 20' 22.162 N | 103° 26' 39.265 W |
| 3,200.0               | 8.00            | 270.00      | 3,190.9               | 0.0          | -139.2       | 488,378.00          | 815,916.18         | 32° 20' 22.163 N | 103° 26' 39.428 W |
| 3,300.0               | 8.00            | 270.00      | 3,289.9               | 0.0          | -153.1       | 488,378.00          | 815,902.26         | 32° 20' 22.164 N | 103° 26' 39.590 W |
| 3,400.0               | 8.00            | 270.00      | 3,389.0               | 0.0          | -167.1       | 488,378.00          | 815,888.35         | 32° 20' 22.165 N | 103° 26' 39.752 W |
| 3,500.0               | 8.00            | 270.00      | 3,488.0               | 0.0          | -181.0       | 488,378.00          | 815,874.43         | 32° 20' 22.167 N | 103° 26' 39.914 W |
| 3,600.0               | 8.00            | 270.00      | 3,587.0               | 0.0          | -194.9       | 488,378.00          | 815,860.51         | 32° 20' 22.168 N | 103° 26' 40.076 W |
| 3,700.0               | 8.00            | 270.00      | 3,686.0               | 0.0          | -208.8       | 488,378.00          | 815,846.59         | 32° 20' 22.169 N | 103° 26' 40.239 W |
| 3,800.0               | 8.00            | 270.00      | 3,785.1               | 0.0          | -222.7       | 488,378.00          | 815,832.68         | 32° 20' 22.170 N | 103° 26' 40.401 W |
| 3,900.0               | 8.00            | 270.00      | 3,884.1               | 0.0          | -236.6       | 488,378.00          | 815,818.76         | 32° 20' 22.171 N | 103° 26' 40.563 W |
| 4,000.0               | 8.00            | 270.00      | 3,983.1               | 0.0          | -250.6       | 488,378.00          | 815,804.84         | 32° 20' 22.172 N | 103° 26' 40.725 W |
| 4,100.0               | 8.00            | 270.00      | 4,082.2               | 0.0          | -264.5       | 488,378.00          | 815,790.93         | 32° 20' 22.173 N | 103° 26' 40.888 W |
| 4,200.0               | 8.00            | 270.00      | 4,181.2               | 0.0          | -278.4       | 488,378.00          | 815,777.01         | 32° 20' 22.175 N | 103° 26' 41.050 W |
| 4,300.0               | 8.00            | 270.00      | 4,280.2               | 0.0          | -292.3       | 488,378.00          | 815,763.09         | 32° 20' 22.176 N | 103° 26' 41.212 W |
| 4,400.0               | 8.00            | 270.00      | 4,379.2               | 0.0          | -306.2       | 488,378.00          | 815,749.17         | 32° 20' 22.177 N | 103° 26' 41.374 W |
| 4,500.0               | 8.00            | 270.00      | 4,478.3               | 0.0          | -320.1       | 488,378.00          | 815,735.26         | 32° 20' 22.178 N | 103° 26' 41.536 W |
| 4,600.0               | 8.00            | 270.00      | 4,577.3               | 0.0          | -334.1       | 488,378.00          | 815,721.34         | 32° 20' 22.179 N | 103° 26' 41.699 W |
| 4,700.0               | 8.00            | 270.00      | 4,676.3               | 0.0          | -348.0       | 488,378.00          | 815,707.42         | 32° 20' 22.180 N | 103° 26' 41.861 W |
| 4,800.0               | 8.00            | 270.00      | 4,775.3               | 0.0          | -361.9       | 488,378.00          | 815,693.50         | 32° 20' 22.181 N | 103° 26' 42.023 W |
| 4,900.0               | 8.00            | 270.00      | 4,874.4               | 0.0          | -375.8       | 488,378.00          | 815,679.59         | 32° 20' 22.183 N | 103° 26' 42.185 W |
| 5,000.0               | 8.00            | 270.00      | 4,973.4               | 0.0          | -389.7       | 488,378.00          | 815,665.67         | 32° 20' 22.184 N | 103° 26' 42.347 W |
| 5,100.0               | 8.00            | 270.00      | 5,072.4               | 0.0          | -403.6       | 488,378.00          | 815,651.75         | 32° 20' 22.185 N | 103° 26' 42.510 W |
| 5,200.0               | 8.00            | 270.00      | 5,171.5               | 0.0          | -417.6       | 488,378.00          | 815,637.84         | 32° 20' 22.186 N | 103° 26' 42.672 W |
| 5,300.0               | 8.00            | 270.00      | 5,270.5               | 0.0          | -431.5       | 488,378.00          | 815,623.92         | 32° 20' 22.187 N | 103° 26' 42.834 W |
| 5,400.0               | 8.00            | 270.00      | 5,369.5               | 0.0          | -445.4       | 488,378.00          | 815,610.00         | 32° 20' 22.188 N | 103° 26' 42.996 W |

**Microsoft**  
Planning Report - Geographic

|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | EDM16                   | <b>Local Co-ordinate Reference:</b> | Well South Ridge #05H                  |
| <b>Company:</b>  | BTA Oil Producers, LLC  | <b>TVD Reference:</b>               | WELL @ 3387.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>MD Reference:</b>                | WELL @ 3387.0usft (Original Well Elev) |
| <b>Site:</b>     | South Ridge             | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | South Ridge #05H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | Wellbore #1             |                                     |                                        |
| <b>Design:</b>   | Design #1               |                                     |                                        |

| Planned Survey        |                 |             |                       |              |              |                     |                    |                  |                   |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |  |
| 5,500.0               | 8.00            | 270.00      | 5,468.5               | 0.0          | -459.3       | 488,378.00          | 815,596.08         | 32° 20' 22.189 N | 103° 26' 43.158 W |  |
| 5,600.0               | 8.00            | 270.00      | 5,567.6               | 0.0          | -473.2       | 488,378.00          | 815,582.17         | 32° 20' 22.191 N | 103° 26' 43.321 W |  |
| 5,700.0               | 8.00            | 270.00      | 5,666.6               | 0.0          | -487.2       | 488,378.00          | 815,568.25         | 32° 20' 22.192 N | 103° 26' 43.483 W |  |
| 5,800.0               | 8.00            | 270.00      | 5,765.6               | 0.0          | -501.1       | 488,378.00          | 815,554.33         | 32° 20' 22.193 N | 103° 26' 43.645 W |  |
| 5,900.0               | 8.00            | 270.00      | 5,864.6               | 0.0          | -515.0       | 488,378.00          | 815,540.41         | 32° 20' 22.194 N | 103° 26' 43.807 W |  |
| 6,000.0               | 8.00            | 270.00      | 5,963.7               | 0.0          | -528.9       | 488,378.00          | 815,526.50         | 32° 20' 22.195 N | 103° 26' 43.969 W |  |
| 6,100.0               | 8.00            | 270.00      | 6,062.7               | 0.0          | -542.8       | 488,378.00          | 815,512.58         | 32° 20' 22.196 N | 103° 26' 44.132 W |  |
| 6,200.0               | 8.00            | 270.00      | 6,161.7               | 0.0          | -556.7       | 488,378.00          | 815,498.66         | 32° 20' 22.197 N | 103° 26' 44.294 W |  |
| 6,209.9               | 8.00            | 270.00      | 6,171.6               | 0.0          | -558.1       | 488,378.00          | 815,497.28         | 32° 20' 22.197 N | 103° 26' 44.310 W |  |
| 6,300.0               | 6.20            | 270.00      | 6,260.9               | 0.0          | -569.3       | 488,378.00          | 815,486.15         | 32° 20' 22.198 N | 103° 26' 44.440 W |  |
| 6,400.0               | 4.20            | 270.00      | 6,360.5               | 0.0          | -578.3       | 488,378.00          | 815,477.09         | 32° 20' 22.199 N | 103° 26' 44.545 W |  |
| 6,500.0               | 2.20            | 270.00      | 6,460.4               | 0.0          | -583.9       | 488,378.00          | 815,471.51         | 32° 20' 22.200 N | 103° 26' 44.610 W |  |
| 6,600.0               | 0.20            | 270.00      | 6,560.3               | 0.0          | -586.0       | 488,378.00          | 815,469.42         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 6,609.9               | 0.00            | 0.00        | 6,570.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 6,700.0               | 0.00            | 0.00        | 6,660.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 6,800.0               | 0.00            | 0.00        | 6,760.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 6,900.0               | 0.00            | 0.00        | 6,860.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,000.0               | 0.00            | 0.00        | 6,960.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,100.0               | 0.00            | 0.00        | 7,060.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,200.0               | 0.00            | 0.00        | 7,160.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,300.0               | 0.00            | 0.00        | 7,260.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,400.0               | 0.00            | 0.00        | 7,360.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,500.0               | 0.00            | 0.00        | 7,460.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,600.0               | 0.00            | 0.00        | 7,560.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,700.0               | 0.00            | 0.00        | 7,660.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,800.0               | 0.00            | 0.00        | 7,760.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 7,900.0               | 0.00            | 0.00        | 7,860.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,000.0               | 0.00            | 0.00        | 7,960.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,100.0               | 0.00            | 0.00        | 8,060.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,200.0               | 0.00            | 0.00        | 8,160.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,300.0               | 0.00            | 0.00        | 8,260.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,400.0               | 0.00            | 0.00        | 8,360.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,500.0               | 0.00            | 0.00        | 8,460.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,600.0               | 0.00            | 0.00        | 8,560.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,700.0               | 0.00            | 0.00        | 8,660.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,800.0               | 0.00            | 0.00        | 8,760.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 8,900.0               | 0.00            | 0.00        | 8,860.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,000.0               | 0.00            | 0.00        | 8,960.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,100.0               | 0.00            | 0.00        | 9,060.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,200.0               | 0.00            | 0.00        | 9,160.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,300.0               | 0.00            | 0.00        | 9,260.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,400.0               | 0.00            | 0.00        | 9,360.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,500.0               | 0.00            | 0.00        | 9,460.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,600.0               | 0.00            | 0.00        | 9,560.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,700.0               | 0.00            | 0.00        | 9,660.3               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,719.2               | 0.00            | 0.00        | 9,679.5               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,769.2               | 0.00            | 0.00        | 9,729.5               | 0.0          | -586.0       | 488,378.00          | 815,469.40         | 32° 20' 22.200 N | 103° 26' 44.635 W |  |
| 9,800.0               | 3.69            | 179.50      | 9,760.3               | -1.0         | -586.0       | 488,377.01          | 815,469.41         | 32° 20' 22.190 N | 103° 26' 44.635 W |  |
| 9,900.0               | 15.69           | 179.50      | 9,858.7               | -17.8        | -585.8       | 488,360.20          | 815,469.56         | 32° 20' 22.024 N | 103° 26' 44.635 W |  |
| 10,000.0              | 27.69           | 179.50      | 9,951.4               | -54.7        | -585.5       | 488,323.30          | 815,469.88         | 32° 20' 21.659 N | 103° 26' 44.635 W |  |
| 10,100.0              | 39.69           | 179.50      | 10,034.5              | -110.1       | -585.0       | 488,267.93          | 815,470.36         | 32° 20' 21.111 N | 103° 26' 44.634 W |  |
| 10,200.0              | 51.69           | 179.50      | 10,104.2              | -181.5       | -584.4       | 488,196.50          | 815,470.98         | 32° 20' 20.404 N | 103° 26' 44.634 W |  |
| 10,300.0              | 63.69           | 179.50      | 10,157.6              | -265.9       | -583.7       | 488,112.14          | 815,471.71         | 32° 20' 19.569 N | 103° 26' 44.634 W |  |
| 10,400.0              | 75.69           | 179.50      | 10,192.2              | -359.5       | -582.9       | 488,018.53          | 815,472.52         | 32° 20' 18.643 N | 103° 26' 44.633 W |  |
| 10,500.0              | 87.69           | 179.50      | 10,206.6              | -458.2       | -582.0       | 487,919.76          | 815,473.38         | 32° 20' 17.665 N | 103° 26' 44.633 W |  |

**Microsoft**  
Planning Report - Geographic

|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | EDM16                   | <b>Local Co-ordinate Reference:</b> | Well South Ridge #05H                  |
| <b>Company:</b>  | BTA Oil Producers, LLC  | <b>TVD Reference:</b>               | WELL @ 3387.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>MD Reference:</b>                | WELL @ 3387.0usft (Original Well Elev) |
| <b>Site:</b>     | South Ridge             | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | South Ridge #05H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | Wellbore #1             |                                     |                                        |
| <b>Design:</b>   | Design #1               |                                     |                                        |

| Planned Survey        |                 |             |                       |              |              |                     |                    |                  |                   |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |  |
| 10,519.2              | 90.00           | 179.50      | 10,207.0              | -477.4       | -581.9       | 487,900.56          | 815,473.54         | 32° 20' 17.475 N | 103° 26' 44.633 W |  |
| 10,600.0              | 90.00           | 179.50      | 10,207.0              | -558.2       | -581.2       | 487,819.77          | 815,474.24         | 32° 20' 16.676 N | 103° 26' 44.632 W |  |
| 10,700.0              | 90.00           | 179.50      | 10,207.0              | -658.2       | -580.3       | 487,719.77          | 815,475.11         | 32° 20' 15.686 N | 103° 26' 44.632 W |  |
| 10,800.0              | 90.00           | 179.50      | 10,207.0              | -758.2       | -579.4       | 487,619.78          | 815,475.98         | 32° 20' 14.697 N | 103° 26' 44.631 W |  |
| 10,900.0              | 90.00           | 179.50      | 10,207.0              | -858.2       | -578.6       | 487,519.78          | 815,476.85         | 32° 20' 13.707 N | 103° 26' 44.631 W |  |
| 11,000.0              | 90.00           | 179.50      | 10,207.0              | -958.2       | -577.7       | 487,419.79          | 815,477.72         | 32° 20' 12.718 N | 103° 26' 44.631 W |  |
| 11,100.0              | 90.00           | 179.50      | 10,207.0              | -1,058.2     | -576.8       | 487,319.79          | 815,478.58         | 32° 20' 11.728 N | 103° 26' 44.630 W |  |
| 11,200.0              | 90.00           | 179.50      | 10,207.0              | -1,158.2     | -575.9       | 487,219.79          | 815,479.45         | 32° 20' 10.739 N | 103° 26' 44.630 W |  |
| 11,300.0              | 90.00           | 179.50      | 10,207.0              | -1,258.2     | -575.1       | 487,119.80          | 815,480.32         | 32° 20' 9.749 N  | 103° 26' 44.629 W |  |
| 11,400.0              | 90.00           | 179.50      | 10,207.0              | -1,358.2     | -574.2       | 487,019.80          | 815,481.19         | 32° 20' 8.760 N  | 103° 26' 44.629 W |  |
| 11,500.0              | 90.00           | 179.50      | 10,207.0              | -1,458.2     | -573.3       | 486,919.81          | 815,482.05         | 32° 20' 7.770 N  | 103° 26' 44.628 W |  |
| 11,600.0              | 90.00           | 179.50      | 10,207.0              | -1,558.2     | -572.5       | 486,819.81          | 815,482.92         | 32° 20' 6.781 N  | 103° 26' 44.628 W |  |
| 11,700.0              | 90.00           | 179.50      | 10,207.0              | -1,658.2     | -571.6       | 486,719.82          | 815,483.79         | 32° 20' 5.791 N  | 103° 26' 44.627 W |  |
| 11,800.0              | 90.00           | 179.50      | 10,207.0              | -1,758.2     | -570.7       | 486,619.82          | 815,484.66         | 32° 20' 4.802 N  | 103° 26' 44.627 W |  |
| 11,900.0              | 90.00           | 179.50      | 10,207.0              | -1,858.2     | -569.9       | 486,519.82          | 815,485.52         | 32° 20' 3.812 N  | 103° 26' 44.626 W |  |
| 12,000.0              | 90.00           | 179.50      | 10,207.0              | -1,958.2     | -569.0       | 486,419.83          | 815,486.39         | 32° 20' 2.823 N  | 103° 26' 44.626 W |  |
| 12,100.0              | 90.00           | 179.50      | 10,207.0              | -2,058.2     | -568.1       | 486,319.83          | 815,487.26         | 32° 20' 1.833 N  | 103° 26' 44.626 W |  |
| 12,200.0              | 90.00           | 179.50      | 10,207.0              | -2,158.2     | -567.3       | 486,219.84          | 815,488.13         | 32° 20' 0.844 N  | 103° 26' 44.625 W |  |
| 12,300.0              | 90.00           | 179.50      | 10,207.0              | -2,258.2     | -566.4       | 486,119.84          | 815,489.00         | 32° 19' 59.854 N | 103° 26' 44.625 W |  |
| 12,400.0              | 90.00           | 179.50      | 10,207.0              | -2,358.2     | -565.5       | 486,019.85          | 815,489.86         | 32° 19' 58.865 N | 103° 26' 44.624 W |  |
| 12,500.0              | 90.00           | 179.50      | 10,207.0              | -2,458.2     | -564.7       | 485,919.85          | 815,490.73         | 32° 19' 57.875 N | 103° 26' 44.624 W |  |
| 12,600.0              | 90.00           | 179.50      | 10,207.0              | -2,558.2     | -563.8       | 485,819.85          | 815,491.60         | 32° 19' 56.886 N | 103° 26' 44.623 W |  |
| 12,700.0              | 90.00           | 179.50      | 10,207.0              | -2,658.2     | -562.9       | 485,719.86          | 815,492.47         | 32° 19' 55.896 N | 103° 26' 44.623 W |  |
| 12,800.0              | 90.00           | 179.50      | 10,207.0              | -2,758.2     | -562.1       | 485,619.86          | 815,493.33         | 32° 19' 54.907 N | 103° 26' 44.622 W |  |
| 12,900.0              | 90.00           | 179.50      | 10,207.0              | -2,858.1     | -561.2       | 485,519.87          | 815,494.20         | 32° 19' 53.917 N | 103° 26' 44.622 W |  |
| 13,000.0              | 90.00           | 179.50      | 10,207.0              | -2,958.1     | -560.3       | 485,419.87          | 815,495.07         | 32° 19' 52.928 N | 103° 26' 44.621 W |  |
| 13,100.0              | 90.00           | 179.50      | 10,207.0              | -3,058.1     | -559.5       | 485,319.87          | 815,495.94         | 32° 19' 51.938 N | 103° 26' 44.621 W |  |
| 13,200.0              | 90.00           | 179.50      | 10,207.0              | -3,158.1     | -558.6       | 485,219.88          | 815,496.81         | 32° 19' 50.949 N | 103° 26' 44.621 W |  |
| 13,300.0              | 90.00           | 179.50      | 10,207.0              | -3,258.1     | -557.7       | 485,119.88          | 815,497.67         | 32° 19' 49.959 N | 103° 26' 44.620 W |  |
| 13,400.0              | 90.00           | 179.50      | 10,207.0              | -3,358.1     | -556.9       | 485,019.89          | 815,498.54         | 32° 19' 48.970 N | 103° 26' 44.620 W |  |
| 13,500.0              | 90.00           | 179.50      | 10,207.0              | -3,458.1     | -556.0       | 484,919.89          | 815,499.41         | 32° 19' 47.980 N | 103° 26' 44.619 W |  |
| 13,600.0              | 90.00           | 179.50      | 10,207.0              | -3,558.1     | -555.1       | 484,819.90          | 815,500.28         | 32° 19' 46.991 N | 103° 26' 44.619 W |  |
| 13,700.0              | 90.00           | 179.50      | 10,207.0              | -3,658.1     | -554.3       | 484,719.90          | 815,501.14         | 32° 19' 46.001 N | 103° 26' 44.618 W |  |
| 13,800.0              | 90.00           | 179.50      | 10,207.0              | -3,758.1     | -553.4       | 484,619.90          | 815,502.01         | 32° 19' 45.012 N | 103° 26' 44.618 W |  |
| 13,900.0              | 90.00           | 179.50      | 10,207.0              | -3,858.1     | -552.5       | 484,519.91          | 815,502.88         | 32° 19' 44.022 N | 103° 26' 44.617 W |  |
| 14,000.0              | 90.00           | 179.50      | 10,207.0              | -3,958.1     | -551.7       | 484,419.91          | 815,503.75         | 32° 19' 43.033 N | 103° 26' 44.617 W |  |
| 14,100.0              | 90.00           | 179.50      | 10,207.0              | -4,058.1     | -550.8       | 484,319.92          | 815,504.61         | 32° 19' 42.043 N | 103° 26' 44.616 W |  |
| 14,200.0              | 90.00           | 179.50      | 10,207.0              | -4,158.1     | -549.9       | 484,219.92          | 815,505.48         | 32° 19' 41.054 N | 103° 26' 44.616 W |  |
| 14,300.0              | 90.00           | 179.50      | 10,207.0              | -4,258.1     | -549.1       | 484,119.93          | 815,506.35         | 32° 19' 40.064 N | 103° 26' 44.616 W |  |
| 14,400.0              | 90.00           | 179.50      | 10,207.0              | -4,358.1     | -548.2       | 484,019.93          | 815,507.22         | 32° 19' 39.075 N | 103° 26' 44.615 W |  |
| 14,500.0              | 90.00           | 179.50      | 10,207.0              | -4,458.1     | -547.3       | 483,919.93          | 815,508.09         | 32° 19' 38.085 N | 103° 26' 44.615 W |  |
| 14,600.0              | 90.00           | 179.50      | 10,207.0              | -4,558.1     | -546.4       | 483,819.94          | 815,508.95         | 32° 19' 37.096 N | 103° 26' 44.614 W |  |
| 14,700.0              | 90.00           | 179.50      | 10,207.0              | -4,658.1     | -545.6       | 483,719.94          | 815,509.82         | 32° 19' 36.106 N | 103° 26' 44.614 W |  |
| 14,800.0              | 90.00           | 179.50      | 10,207.0              | -4,758.1     | -544.7       | 483,619.95          | 815,510.69         | 32° 19' 35.117 N | 103° 26' 44.613 W |  |
| 14,900.0              | 90.00           | 179.50      | 10,207.0              | -4,858.1     | -543.8       | 483,519.95          | 815,511.56         | 32° 19' 34.127 N | 103° 26' 44.613 W |  |
| 15,000.0              | 90.00           | 179.50      | 10,207.0              | -4,958.1     | -543.0       | 483,419.95          | 815,512.42         | 32° 19' 33.138 N | 103° 26' 44.612 W |  |
| 15,100.0              | 90.00           | 179.50      | 10,207.0              | -5,058.1     | -542.1       | 483,319.96          | 815,513.29         | 32° 19' 32.148 N | 103° 26' 44.612 W |  |
| 15,200.0              | 90.00           | 179.50      | 10,207.0              | -5,158.1     | -541.2       | 483,219.96          | 815,514.16         | 32° 19' 31.159 N | 103° 26' 44.611 W |  |
| 15,300.0              | 90.00           | 179.50      | 10,207.0              | -5,258.1     | -540.4       | 483,119.97          | 815,515.03         | 32° 19' 30.169 N | 103° 26' 44.611 W |  |
| 15,400.0              | 90.00           | 179.50      | 10,207.0              | -5,358.1     | -539.5       | 483,019.97          | 815,515.89         | 32° 19' 29.180 N | 103° 26' 44.610 W |  |
| 15,500.0              | 90.00           | 179.50      | 10,207.0              | -5,458.0     | -538.6       | 482,919.98          | 815,516.76         | 32° 19' 28.190 N | 103° 26' 44.610 W |  |
| 15,600.0              | 90.00           | 179.50      | 10,207.0              | -5,558.0     | -537.8       | 482,819.98          | 815,517.63         | 32° 19' 27.201 N | 103° 26' 44.610 W |  |
| 15,700.0              | 90.00           | 179.50      | 10,207.0              | -5,658.0     | -536.9       | 482,719.98          | 815,518.50         | 32° 19' 26.211 N | 103° 26' 44.609 W |  |
| 15,800.0              | 90.00           | 179.50      | 10,207.0              | -5,758.0     | -536.0       | 482,619.99          | 815,519.37         | 32° 19' 25.222 N | 103° 26' 44.609 W |  |
| 15,900.0              | 90.00           | 179.50      | 10,207.0              | -5,858.0     | -535.2       | 482,519.99          | 815,520.23         | 32° 19' 24.232 N | 103° 26' 44.608 W |  |

**Microsoft**  
Planning Report - Geographic

|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | EDM16                   | <b>Local Co-ordinate Reference:</b> | Well South Ridge #05H                  |
| <b>Company:</b>  | BTA Oil Producers, LLC  | <b>TVD Reference:</b>               | WELL @ 3387.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>MD Reference:</b>                | WELL @ 3387.0usft (Original Well Elev) |
| <b>Site:</b>     | South Ridge             | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | South Ridge #05H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | Wellbore #1             |                                     |                                        |
| <b>Design:</b>   | Design #1               |                                     |                                        |

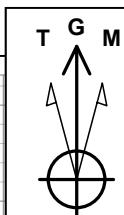
| Planned Survey        |                 |             |                       |              |              |                     |                    |                  |                   |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |  |
| 16,000.0              | 90.00           | 179.50      | 10,207.0              | -5,958.0     | -534.3       | 482,420.00          | 815,521.10         | 32° 19' 23.243 N | 103° 26' 44.608 W |  |
| 16,100.0              | 90.00           | 179.50      | 10,207.0              | -6,058.0     | -533.4       | 482,320.00          | 815,521.97         | 32° 19' 22.253 N | 103° 26' 44.607 W |  |
| 16,200.0              | 90.00           | 179.50      | 10,207.0              | -6,158.0     | -532.6       | 482,220.01          | 815,522.84         | 32° 19' 21.264 N | 103° 26' 44.607 W |  |
| 16,300.0              | 90.00           | 179.50      | 10,207.0              | -6,258.0     | -531.7       | 482,120.01          | 815,523.70         | 32° 19' 20.274 N | 103° 26' 44.606 W |  |
| 16,400.0              | 90.00           | 179.50      | 10,207.0              | -6,358.0     | -530.8       | 482,020.01          | 815,524.57         | 32° 19' 19.285 N | 103° 26' 44.606 W |  |
| 16,500.0              | 90.00           | 179.50      | 10,207.0              | -6,458.0     | -530.0       | 481,920.02          | 815,525.44         | 32° 19' 18.295 N | 103° 26' 44.605 W |  |
| 16,600.0              | 90.00           | 179.50      | 10,207.0              | -6,558.0     | -529.1       | 481,820.02          | 815,526.31         | 32° 19' 17.306 N | 103° 26' 44.605 W |  |
| 16,700.0              | 90.00           | 179.50      | 10,207.0              | -6,658.0     | -528.2       | 481,720.03          | 815,527.17         | 32° 19' 16.316 N | 103° 26' 44.605 W |  |
| 16,800.0              | 90.00           | 179.50      | 10,207.0              | -6,758.0     | -527.4       | 481,620.03          | 815,528.04         | 32° 19' 15.327 N | 103° 26' 44.604 W |  |
| 16,900.0              | 90.00           | 179.50      | 10,207.0              | -6,858.0     | -526.5       | 481,520.03          | 815,528.91         | 32° 19' 14.337 N | 103° 26' 44.604 W |  |
| 17,000.0              | 90.00           | 179.50      | 10,207.0              | -6,958.0     | -525.6       | 481,420.04          | 815,529.78         | 32° 19' 13.348 N | 103° 26' 44.603 W |  |
| 17,100.0              | 90.00           | 179.50      | 10,207.0              | -7,058.0     | -524.8       | 481,320.04          | 815,530.65         | 32° 19' 12.358 N | 103° 26' 44.603 W |  |
| 17,200.0              | 90.00           | 179.50      | 10,207.0              | -7,158.0     | -523.9       | 481,220.05          | 815,531.51         | 32° 19' 11.369 N | 103° 26' 44.602 W |  |
| 17,300.0              | 90.00           | 179.50      | 10,207.0              | -7,258.0     | -523.0       | 481,120.05          | 815,532.38         | 32° 19' 10.379 N | 103° 26' 44.602 W |  |
| 17,400.0              | 90.00           | 179.50      | 10,207.0              | -7,358.0     | -522.2       | 481,020.06          | 815,533.25         | 32° 19' 9.390 N  | 103° 26' 44.601 W |  |
| 17,500.0              | 90.00           | 179.50      | 10,207.0              | -7,458.0     | -521.3       | 480,920.06          | 815,534.12         | 32° 19' 8.400 N  | 103° 26' 44.601 W |  |
| 17,600.0              | 90.00           | 179.50      | 10,207.0              | -7,558.0     | -520.4       | 480,820.06          | 815,534.98         | 32° 19' 7.411 N  | 103° 26' 44.600 W |  |
| 17,700.0              | 90.00           | 179.50      | 10,207.0              | -7,658.0     | -519.5       | 480,720.07          | 815,535.85         | 32° 19' 6.421 N  | 103° 26' 44.600 W |  |
| 17,800.0              | 90.00           | 179.50      | 10,207.0              | -7,758.0     | -518.7       | 480,620.07          | 815,536.72         | 32° 19' 5.432 N  | 103° 26' 44.599 W |  |
| 17,900.0              | 90.00           | 179.50      | 10,207.0              | -7,858.0     | -517.8       | 480,520.08          | 815,537.59         | 32° 19' 4.442 N  | 103° 26' 44.599 W |  |
| 18,000.0              | 90.00           | 179.50      | 10,207.0              | -7,958.0     | -516.9       | 480,420.08          | 815,538.45         | 32° 19' 3.453 N  | 103° 26' 44.599 W |  |
| 18,100.0              | 90.00           | 179.50      | 10,207.0              | -8,058.0     | -516.1       | 480,320.09          | 815,539.32         | 32° 19' 2.463 N  | 103° 26' 44.598 W |  |
| 18,200.0              | 90.00           | 179.50      | 10,207.0              | -8,157.9     | -515.2       | 480,220.09          | 815,540.19         | 32° 19' 1.474 N  | 103° 26' 44.598 W |  |
| 18,300.0              | 90.00           | 179.50      | 10,207.0              | -8,257.9     | -514.3       | 480,120.09          | 815,541.06         | 32° 19' 0.484 N  | 103° 26' 44.597 W |  |
| 18,400.0              | 90.00           | 179.50      | 10,207.0              | -8,357.9     | -513.5       | 480,020.10          | 815,541.93         | 32° 18' 59.495 N | 103° 26' 44.597 W |  |
| 18,500.0              | 90.00           | 179.50      | 10,207.0              | -8,457.9     | -512.6       | 479,920.10          | 815,542.79         | 32° 18' 58.505 N | 103° 26' 44.596 W |  |
| 18,600.0              | 90.00           | 179.50      | 10,207.0              | -8,557.9     | -511.7       | 479,820.11          | 815,543.66         | 32° 18' 57.516 N | 103° 26' 44.596 W |  |
| 18,700.0              | 90.00           | 179.50      | 10,207.0              | -8,657.9     | -510.9       | 479,720.11          | 815,544.53         | 32° 18' 56.526 N | 103° 26' 44.595 W |  |
| 18,800.0              | 90.00           | 179.50      | 10,207.0              | -8,757.9     | -510.0       | 479,620.11          | 815,545.40         | 32° 18' 55.537 N | 103° 26' 44.595 W |  |
| 18,900.0              | 90.00           | 179.50      | 10,207.0              | -8,857.9     | -509.1       | 479,520.12          | 815,546.26         | 32° 18' 54.547 N | 103° 26' 44.594 W |  |
| 19,000.0              | 90.00           | 179.50      | 10,207.0              | -8,957.9     | -508.3       | 479,420.12          | 815,547.13         | 32° 18' 53.558 N | 103° 26' 44.594 W |  |
| 19,100.0              | 90.00           | 179.50      | 10,207.0              | -9,057.9     | -507.4       | 479,320.13          | 815,548.00         | 32° 18' 52.568 N | 103° 26' 44.593 W |  |
| 19,200.0              | 90.00           | 179.50      | 10,207.0              | -9,157.9     | -506.5       | 479,220.13          | 815,548.87         | 32° 18' 51.579 N | 103° 26' 44.593 W |  |
| 19,300.0              | 90.00           | 179.50      | 10,207.0              | -9,257.9     | -505.7       | 479,120.14          | 815,549.73         | 32° 18' 50.589 N | 103° 26' 44.593 W |  |
| 19,400.0              | 90.00           | 179.50      | 10,207.0              | -9,357.9     | -504.8       | 479,020.14          | 815,550.60         | 32° 18' 49.600 N | 103° 26' 44.592 W |  |
| 19,500.0              | 90.00           | 179.50      | 10,207.0              | -9,457.9     | -503.9       | 478,920.14          | 815,551.47         | 32° 18' 48.610 N | 103° 26' 44.592 W |  |
| 19,600.0              | 90.00           | 179.50      | 10,207.0              | -9,557.9     | -503.1       | 478,820.15          | 815,552.34         | 32° 18' 47.621 N | 103° 26' 44.591 W |  |
| 19,700.0              | 90.00           | 179.50      | 10,207.0              | -9,657.9     | -502.2       | 478,720.15          | 815,553.21         | 32° 18' 46.631 N | 103° 26' 44.591 W |  |
| 19,800.0              | 90.00           | 179.50      | 10,207.0              | -9,757.9     | -501.3       | 478,620.16          | 815,554.07         | 32° 18' 45.642 N | 103° 26' 44.590 W |  |
| 19,900.0              | 90.00           | 179.50      | 10,207.0              | -9,857.9     | -500.5       | 478,520.16          | 815,554.94         | 32° 18' 44.652 N | 103° 26' 44.590 W |  |
| 20,000.0              | 90.00           | 179.50      | 10,207.0              | -9,957.9     | -499.6       | 478,420.17          | 815,555.81         | 32° 18' 43.663 N | 103° 26' 44.589 W |  |
| 20,044.9              | 90.00           | 179.50      | 10,207.0              | -10,002.7    | -499.2       | 478,375.30          | 815,556.20         | 32° 18' 43.219 N | 103° 26' 44.589 W |  |

| Design Targets                                           |               |              |            |              |              |                 |                |                  |                   |  |
|----------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|--|
| Target Name<br>- hit/miss target<br>- Shape              | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |  |
| South Ridge #05H<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 10,207.0   | -10,002.7    | -499.2       | 478,375.30      | 815,556.20     | 32° 18' 43.219 N | 103° 26' 44.589 W |  |

Microsoft  
Planning Report - Geographic

|           |                         |                              |                                        |
|-----------|-------------------------|------------------------------|----------------------------------------|
| Database: | EDM16                   | Local Co-ordinate Reference: | Well South Ridge #05H                  |
| Company:  | BTA Oil Producers, LLC  | TVD Reference:               | WELL @ 3387.0usft (Original Well Elev) |
| Project:  | Lea County, NM (NAD 83) | MD Reference:                | WELL @ 3387.0usft (Original Well Elev) |
| Site:     | South Ridge             | North Reference:             | Grid                                   |
| Well:     | South Ridge #05H        | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | Wellbore #1             |                              |                                        |
| Design:   | Design #1               |                              |                                        |

# BTA Oil Producers, LLC



Azimuths to Grid North  
 True North:  $-0.48^\circ$   
 Magnetic North:  $7.22^\circ$   
 Magnetic Field  
 Strength: 48877.8nT  
 Dip Angle:  $60.37^\circ$   
 Date: 12/31/2009  
 Model: IGRF200510

## WELL DETAILS: South Ridge #05H

| +N/-S | +E/-W | Northing  | Ground Level<br>Easting | 3387.0<br>Latitude | Longitude         |
|-------|-------|-----------|-------------------------|--------------------|-------------------|
| 0.0   | 0.0   | 488378.00 | 816055.40               | 32° 20' 22.152 N   | 103° 26' 37.805 W |

### SITE DETAILS: South Ridge

Site Centre Northing: 486511.00  
 Easting: 815469.00

Positional Uncertainty: 0.0  
 Convergence: 0.47  
 Local North: Grid

### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S    | +E/-W  | Dleg  |
|-----|---------|-------|--------|---------|----------|--------|-------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0     | 0.0      | 0.0    | 0.00  |
| 2   | 2000.0  | 0.00  | 0.00   | 2000.0  | 0.0      | 0.0    | 0.00  |
| 3   | 2400.0  | 8.00  | 270.00 | 2398.7  | 0.0      | -27.9  | 2.00  |
| 4   | 6209.9  | 8.00  | 270.00 | 6171.6  | 0.0      | -558.1 | 0.00  |
| 5   | 6609.9  | 0.00  | 0.00   | 6570.3  | 0.0      | -586.0 | 2.00  |
| 6   | 9719.2  | 0.00  | 0.00   | 9679.5  | 0.0      | -586.0 | 0.00  |
| 7   | 9769.2  | 0.00  | 0.00   | 9729.5  | 0.0      | -586.0 | 0.00  |
| 8   | 10519.2 | 90.00 | 179.50 | 10207.0 | -477.4   | -581.9 | 12.00 |
| 9   | 20044.9 | 90.00 | 179.50 | 10207.0 | -10002.7 | -499.2 | 0.00  |

### PROJECT DETAILS: Lea County, NM (NAD 83)

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

System Datum: Ground Level

