<u>District I</u> 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 353087

| APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE | | | | | |
|--|-----------------|--|--|--|--|
| 1. Operator Name and Address | 2. OGRID Number | | | | |
| Avant Operating, LLC | 330396 | | | | |

1515 Wynkoop Street 3. API Number Denver, CO 80202 30-025-52203 4. Property Code 5. Property Name 6. Well No. 334829 **EXPLORER 15 STATE COM** 602H

7 Surface Location

| | william Loudin | | | | | | | | |
|----------|----------------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| В | 15 | 18S | 34E | В | 343 | N | 2082 | E | Lea |

8. Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| В | 15 | 18S | 34E | В | 343 | N | 2082 | E | Lea |

9. Pool Information

| AIRSTRIP;BONE SPRING | 960 |
|-----------------------------|-----|
| AIRSTRIP;BONE SPRING, NORTH | 962 |

Additional Well Information

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|-----------------------|--------------------|--|----------------|-----------------------------------|
| New Well | OIL | | State | 4021 |
| 16. Multiple | 17. Proposed Depth | 18. Formation | 19. Contractor | 20. Spud Date |
| Y | 19970 | 3rd Bone Spring Sand | | 5/29/2024 |
| 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

| 2111 Toposca Gastrig and Genterit Togram | | | | | | | | |
|--|-----------|-------------|------------------|---------------|-----------------|---------------|--|--|
| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC | | |
| Surf | 17.5 | 13.375 | 54.5 | 1805 | 1045 | 1440 | | |
| Int1 | 12.25 | 9.625 | 40 | 3400 | 890 | 2720 | | |
| Prod | 8.75 | 5.5 | 20 | 19970 | 3610 | 9290 | | |

Casing/Cement Program: Additional Comments

22 Proposed Blowout Prevention Program

| 22: 1 Toposcu Biowout 1 Tevention 1 Togram | | | | | | | | |
|--|------------------|---------------|--------------|--|--|--|--|--|
| Туре | Working Pressure | Test Pressure | Manufacturer | | | | | |
| Pipe | 10000 | 5000 | Cameron | | | | | |

| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable. Signature: | | | | OIL CONSERVATION | ON DIVISION |
|---|-----------------------------------|----------------|------------|-----------------------------|-------------|
| Printed Name: | | | | Paul F Kautz | |
| Title: | Title: Director of Regulatory | | | Geologist | |
| Email Address: sarah@avantnr.com | | Approved Date: | 11/14/2023 | Expiration Date: 11/14/2025 | |
| Date: | te: 11/9/2023 Phone: 720-854-9020 | | | oval Attached | |

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

811 S. First St., Artesia, NM 88210 District III Phone: (505) 334-6178 Fax: (505) 334-6170

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

District IV

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

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

☐ AMENDED REPORT

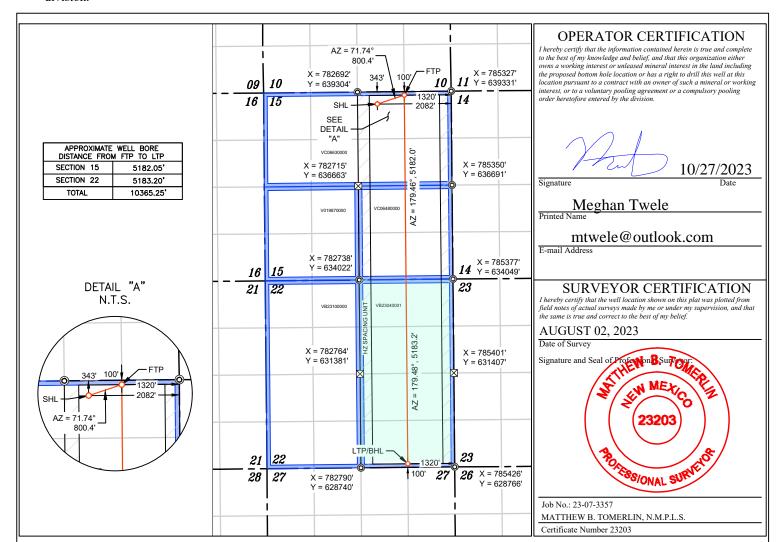
WELL LOCATION AND ACREAGE DEDICATION PLAT

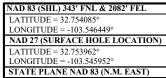
| API Number | | Pool Code Pool Name | | | |
|---------------------|------------------------------------|------------------------|----------------------|--------------------|--|
| | | 960 AIRSTRIP;BONE SP | | RING | |
| Property Code | | Propert EXPLORER 15 | Well Number #602H | | |
| OGRID No. 330396 | Operator Name AVANT OPERATING, LLC | | | Elevation 4021' | |
| Surface Location | | | | | |

18 S 34 E 343 NORTH 2082 **EAST** LEA В 15 Bottom Hole Location If Different From Surface East/West line UL or lot no 18 S 34 E SOUTH **EAST** LEA 0 1320 Order No. Dedicated Acres Joint or Infill solidation Code 320.00

Range

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.



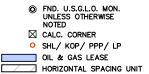


STATE PLANE NAD 27 (1

| / | Editoriose 10515 15770 |
|-------------|--------------------------------|
| E LOCATION) | NAD 27 (FTP) |
| | LATITUDE = 32.754635° |
| 2° | LONGITUDE = -103.543473° |
| N.M. EAST) | STATE PLANE NAD 83 (N.M. EAST) |
| ' | N: 639217.52' E: 784008.14' |
| N.M. EAST) | STATE PLANE NAD 27 (N.M. EAST) |
| ' | N: 639152.84' E: 742828.99' |
| | |

NAD 83 (FTP) 100' FNL & 1320' FEL

| NAD 83 (LTP/BHL) 100' FSL & 1320' FEL |
|---------------------------------------|
| LATITUDE = 32.726270° |
| LONGITUDE = -103.543908° |
| NAD 27 (LTP/BHL) |
| LATITUDE = 32.726146° |
| LONGITUDE = -103.543412° |
| STATE PLANE NAD 83 (N.M. EAST) |
| N: 628852.73' E: 784104.70' |
| STATE PLANE NAD 27 (N.M. EAST) |
| N: 628788.36' E: 742925.26' |



NOTES

- 1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001), NAVD 88.
- 2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING AUGUST, 2023. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS EASEMENT IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.
- 3. ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY



1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210

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

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

☐ AMENDED REPORT

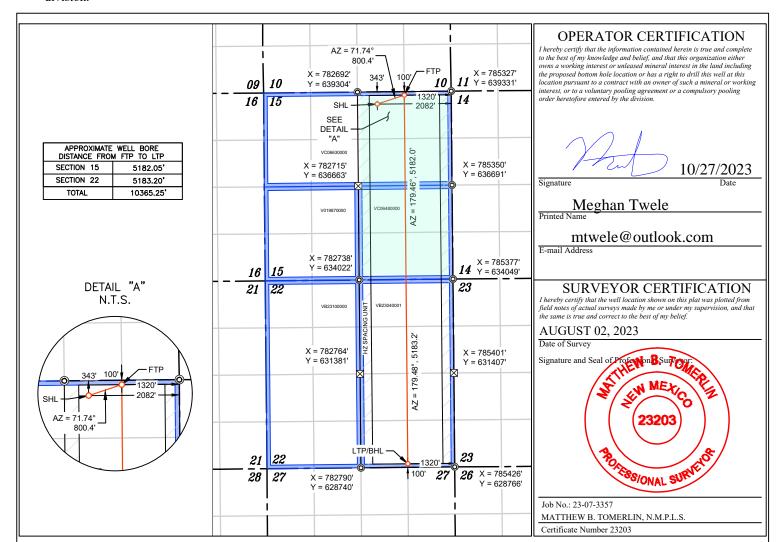
WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | | Pool Code Pool Name | | | |
|------------------|-----------------------|----------------------|--|--------------|--|
| | | 962 AIRSTRIP;BONE SP | | PRING, NORTH | |
| Property Code | Property Name | | | Well Number | |
| | EXPLORER 15 STATE COM | | | #602H | |
| OGRID No. | Operator Name | | | Elevation | |
| 330396 | AVANT OPERATING, LLC | | | 4021' | |
| Surface Location | | | | | |

18 S 34 E 343 **NORTH** 2082 **EAST** LEA В 15 Bottom Hole Location If Different From Surface East/West line UL or lot no 18 S 34 E SOUTH LEA 0 1320 **EAST** Dedicated Acres Joint or Infill Order No. solidation Code 320.00

Range

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





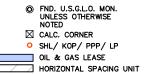
STATE PLANE NAD 27 (N.M. EAST)

| LONGITUDE = -103.543970° | |
|--------------------------------|---|
| NAD 27 (FTP) | Ξ |
| LATITUDE = 32.754635° | |
| LONGITUDE = -103.543473° | |
| STATE PLANE NAD 83 (N.M. EAST) | Ξ |
| N: 639217.52' E: 784008.14' | |
| STATE PLANE NAD 27 (N.M. EAST) | Ξ |
| N: 639152.84' E: 742828.99' | |

NAD 83 (FTP) 100' FNL & 1320' FEL

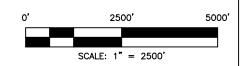
LATITUDE = 32.754759

| NAD 83 (LTP/BHL) 100' FSL & 1320' FEL | |
|---|--|
| LATITUDE = 32.726270° | |
| LONGITUDE = -103.543908° | |
| NAD 27 (LTP/BHL) | |
| LATITUDE = 32.726146° | |
| LONGITUDE = -103.543412° | |
| STATE PLANE NAD 83 (N.M. EAST) | |
| N: 628852.73' E: 784104.70' | |
| STATE PLANE NAD 27 (N.M. EAST) | |
| N: 628788.36' E: 742925.26' | |
| N: 628852.73' E: 784104.70' STATE PLANE NAD 27 (N.M. EAST) | |



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- 3. ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY



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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**

Form APD Comments

Permit 353087

PERMIT COMMENTS

| Operator Name and Address: | API Number: |
|-------------------------------|-----------------------------|
| Avant Operating, LLC [330396] | 30-025-52203 |
| 1515 Wynkoop Street | Well: |
| Denver, CO 80202 | EXPLORER 15 STATE COM #602H |
| | |

| Created By | Comment | Comment Date |
|------------|---|--------------|
| twelem | Avant is applying for this well to be a proximity tract well, allowing 640 dedicated acres. | 11/9/2023 |

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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**

Form APD Conditions

Permit 353087

PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|-------------------------------|-----------------------------|
| Avant Operating, LLC [330396] | 30-025-52203 |
| 1515 Wynkoop Street | Well: |
| Denver, CO 80202 | EXPLORER 15 STATE COM #602H |

| OCD 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 | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string |
| pkautz | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing |
| pkautz | If cement does not circulate on any string , a CBL is required for that string of casing. |
| pkautz | The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud |

Explorer 15 State Com 602H

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

| I. Operator: Avant Operati | ing, LLC O | GRID: 330396 | Date: 11/08/20 | 23 | | |
|---|-------------|---------------------|-----------------------|--------------------------|--------------------------|----------------------------------|
| II. Type: ⊠ Original □ A | mendment du | e to 🗆 19.15.27.9 | .D(6)(a) NMAC | 19.15.27.9.D(6 |)(b) NMAC □ C | Other. |
| If Other, please describe: | | | | | | |
| III. Well(s): Provide the fol be recompleted from a single | | | | | ells proposed to b | oe drilled or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
| Explorer 15 State Com 601H | | B-15-T18S-R34E | 346FNL/2102FEL | 1000 BBL/D | 1800 MCF/D | 8000 BBL/D |

343FNL/2082FEL

1000 BBL/D

1800 MCF/D

8000 BBL/D

| IV. Central Delivery Point Name: Explorer CTB 1 | [See 19.15.27.9(D)(1) NMAC] |
|---|-----------------------------|

B-15-T18S-R34E

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|----------------------------|-----|------------|--------------------|---------------------------------|---------------------------|-----------------------|
| Explorer 15 State Com 601H | | 05/08/2024 | 06/08/2024 | 06/14/2024 | 07/10/2024 | 07/10/2024 |
| Explorer 15 State Com 602H | | 05/08/2024 | 06/08/2024 | 06/14/2024 | 07/10/2024 | 07/10/2024 |

- VI. Separation Equipment:

 Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices: \boxtimes Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- VIII. Best Management Practices:

 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:

Printed Name: John Harper

Title: VP of Geosciences

E-mail Address: John@avantnr.com

Date: 11/08/23

Phone: 678-988-6644

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct

Avant Operating, LLC Natural Gas Management Plan

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Avant Operating, LLC (Avant) will take the following actions to comply with the regulations listed in 19.15.27.8:
 - A. Avant will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Avant will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
 - B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, Avant will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications. Avant will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Avant will comply with the performance standards requirements and provisions listed in 19.15.27.8 (l) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. Avant will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - E. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. Avant will install equipment to measure



Avant Operating, LLC

Lea Co., NM (NAD 83) Explorer 15 State Com Pad 1 Explorer 15 State Com 602H

OH

Plan: Plan 0.1

Standard Planning Report

25 October, 2023







Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1
Well: Explorer 15 State Com 602H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:

Survey Calculation Method:

North Reference:

Well Explorer 15 State Com 602H WELL @ 4047.5usft (4047.5) WELL @ 4047.5usft (4047.5)

Minimum Curvature

Project Lea Co., NM (NAD 83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Explorer 15 State Com Pad 1

 Site Position:
 Northing:
 638,963.33 usft
 Latitude:
 32.7540760°N

 From:
 Lat/Long
 Easting:
 783,228.31 usft
 Longitude:
 103.5465130°W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well Explorer 15 State Com 602H **Well Position** +N/-S 0.0 usft 638,966.75 usft Latitude: 32.7540850°N Northing: +E/-W 0.0 usft Easting: 783,247.96 usft Longitude: 103.5464490°W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 4,021.0 usft 0.43 ° **Grid Convergence:**

ОН Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 49,744.79222826 IGRF2000 12/31/2004 8.59 60.94

Plan 0.1 Design Audit Notes: **PROTOTYPE** 0.0 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 175.16

Plan Survey Tool Program Date 10/25/2023

Depth From Depth To
(usft) (usft) Survey (Wellbore) Tool Name Remarks

B001Mb_MWD+HRGM OWSG MWD + HRGM

Plan Sections Dogleg Measured Vertical Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) Target 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 5,000.0 0.00 0.00 5,000.0 0.0 0.0 0.00 0.00 0.00 0.00 5,694.3 78.1 13.89 68.97 5,687.5 30.0 2.00 2.00 0.00 68.97 8,398.3 13.89 68.97 8,312.5 263.0 683.9 0.00 0.00 0.00 0.00 9,092.6 9,000.0 293.0 762.0 0.00 0.00 2.00 -2.00 0.00 180.00 9,290.1 9,197.5 293.0 762.0 0.00 0.00 0.00 0.00 0.00 0.00 10,040.1 90.00 179.48 9,675.0 -184.4 766.3 12.00 12.00 0.00 179.48 19,970.1 9,675.0 -10,114.0 856.6 0.00 0.00 0.00 Explorer 15 State Cor 90.00 179.48 0.00

0.0

19,970.1

Plan 0.1 (OH)

NATURAL RESOURCES

Planning Report



Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1

Explorer 15 State Com 602H

Wellbore: OH
Design: Plan 0.1

Well:

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

| nned Survey | | | | | | | | | |
|-----------------------------|-----------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | 0.0 | | | | | |
| 900.0 | 0.00 | 0.00 | 900.0 | | 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 |
| 1,780.0 | 0.00 | 0.00 | 1,780.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| RUSTLER | 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 |
| | | | | | | | | | |
| 1,890.0 | 0.00 | 0.00 | 1,890.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SALT | | | | | | | | | |
| 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 |
| 3,655.0 | 0.00 | 0.00 | 3,655.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SEVEN RIVE | | | -, | | | | | | |
| | | 0.00 | 0.700.0 | 2.2 | 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 |
| 4,390.0 | 0.00 | 0.00 | 4,390.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| QUEEN | | | , | | | | | | |
| WOLL!! | 0.00 | 0.00 | 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |





Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1

Explorer 15 State Com 602H

Wellbore: OH
Design: Plan 0.1

Well:

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Explorer 15 State Com 602H WELL @ 4047.5usft (4047.5) WELL @ 4047.5usft (4047.5)

Minimum Curvature

| nned Survey | | | | | | | | | |
|-----------------------------|------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 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 |
| 4,997.0 | 0.00 | 0.00 | 4,997.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| CAPITAN REI | EF | | | | | | | | |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP - Start B | uild 2.00 | | | | | | | | |
| 5,100.0 | 2.00 | 68.97 | 5,100.0 | 0.6 | 1.6 | -0.5 | 2.00 | 2.00 | 0.00 |
| 5,200.0 | 4.00 | 68.97 | 5,199.8 | 2.5 | 6.5 | -1.9 | 2.00 | 2.00 | 0.00 |
| 5,300.0 | 6.00 | 68.97 | 5,299.5 | 5.6 | 14.6 | -4.4 | 2.00 | 2.00 | 0.00 |
| 5,400.0 | 8.00 | 68.97 | 5,398.7 | 10.0 | 26.0 | -7.8 | 2.00 | 2.00 | 0.00 |
| 5,500.0 | 10.00 | 68.97 | 5,497.5 | 15.6 | 40.6 | -12.1 | 2.00 | 2.00 | 0.00 |
| 5,600.0 | 12.00 | 68.97 | 5,595.6 | 22.5 | 58.4 | -17.5 | 2.00 | 2.00 | 0.00 |
| 5,657.8 | 13.16 | 68.97 | 5,652.0 | 27.0 | 70.2 | -21.0 | 2.00 | 2.00 | 0.00 |
| CHERRY CAN | | | | | | | | | |
| 5,694.3 | 13.89 | 68.97 | 5,687.5 | 30.0 | 78.1 | -23.3 | 2.00 | 2.00 | 0.00 |
| | nold at 5694.3 M | | | | | | | | |
| 5,700.0 | 13.89 | 68.97 | 5,693.1 | 30.5 | 79.4 | -23.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 13.89 | 68.97 | 5,790.1 | 39.2 | 101.8 | -30.4 | 0.00 | 0.00 | 0.00 |
| 5,820.5 | 13.89 | 68.97 | 5,810.0 | 40.9 | 106.4 | -31.8 | 0.00 | 0.00 | 0.00 |
| BRUSHY CAN | | | | | | | | | |
| 5,900.0 | 13.89 | 68.97 | 5,887.2 | 47.8 | 124.2 | -37.1 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 13.89 | 68.97 | 5,984.3 | 56.4 | 146.6 | -43.8 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 13.89 | 68.97 | 6,081.4 | 65.0 | 169.0 | -50.5 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 13.89 | 68.97 | 6,178.4 | 73.6 | 191.4 | -57.2 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 13.89 | 68.97 | 6,275.5 | 82.2 | 213.8 | -63.9 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 13.89 | 68.97 | 6,372.6 | 90.8 | 236.2 | -70.6 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 13.89 | 68.97 | 6,469.7 | 99.4 | 258.6 | -77.3 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 13.89 | 68.97 | 6,566.8 | 108.1 | 281.0 | -84.0 | 0.00 | 0.00 | 0.00 |
| 6,623.9 | 13.89 | 68.97 | 6,590.0 | 110.1 | 286.4 | -85.6 | 0.00 | 0.00 | 0.00 |
| Top of BSGL | 10.09 | 00.01 | 0,000.0 | 110.1 | 200.7 | -00.0 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 13.89 | 68.97 | 6,663.8 | 116.7 | 303.4 | -90.6 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 13.89 | 68.97 | 6,760.9 | 125.3 | 325.8 | -97.3 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 13.89 | 68.97 | 6,858.0 | 133.9 | 348.2 | -104.0 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 13.89 | 68.97 | 6,955.1 | 142.5 | 370.6 | -110.7 | 0.00 | 0.00 | 0.00 |
| 7 100 0 | 13 80 | 68 07 | 7 052 1 | 151 1 | 303 U | _117 <i>/</i> 1 | 0.00 | 0.00 | 0.00 |
| 7,100.0 7,200.0 | 13.89 13.89 | 68.97 68.97 | 7,052.1 7,149.2 | 151.1 159.7 | 393.0 415.4 | -117.4 -124.1 | 0.00 0.00 | 0.00 | 0.00 0.00 |
| 7,300.0 | 13.89 | 68.97 | 7,149.2 | 168.4 | 437.8 | -124.1 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 13.89 | 68.97 | 7,343.4 | 177.0 | 460.2 | -137.5 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 13.89 | 68.97 | 7,440.4 | 185.6 | 482.6 | -144.2 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 13.89 | 68.97 | 7,537.5 | 194.2 | 505.0 | -150.9 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 13.89 | 68.97 | 7,634.6 | 202.8 | 505.0 | -150.9 -157.6 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 13.89 | 68.97 | 7,034.0 | 211.4 | 549.8 | -164.3 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 13.89 | 68.97 | 7,828.8 | 220.0 | 572.2 | -171.0 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 13.89 | 68.97 | 7,925.8 | 228.6 | 594.6 | -177.6 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 8,100.0 8,200.0 | 13.89 | 68.97 68.97 | 8,022.9 | 237.3 245.9 | 617.0 630.4 | -184.3 | 0.00 | 0.00 0.00 | 0.00 |
| 8,200.0 8,300.0 | 13.89 13.89 | 68.97 | 8,120.0 8,217.1 | 245.9 254.5 | 639.4 661.8 | -191.0 -197.7 | 0.00 0.00 | 0.00 | 0.00 0.00 |
| 8,398.3 | 13.89 | 68.97 | 8,312.5 | 263.0 | 683.9 | -197.7 | 0.00 | 0.00 | 0.00 |
| Start Drop -2. | | 00.31 | 0,012.0 | 203.0 | 000.9 | -204.3 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 13.85 | 68.97 | 8,314.1 | 263.1 | 684.2 | -204.4 | 2.00 | -2.00 | 0.00 |

NATURAL RESOURCES

Planning Report



Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1

Explorer 15 State Com 602H

Wellbore: OH
Design: Plan 0.1

Well:

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

| ed Survey | | | | | | | | | |
|-----------------------------|--------------------|------------------|-----------------------------|---------------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,500.0 | | 68.97 | 8,411.6 | 271.1 | 705.0 | -210.6 | 2.00 | -2.00 | 0.00 |
| 8,503.4 | | 68.97 | 8,415.0 | 271.3 | 705.7 | -210.8 | 2.00 | -2.00 | 0.00 |
| Top of FBS | | 00.07 | 0.500.0 | 077.0 | 700.0 | 045.0 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | | 68.97 | 8,509.8 | 277.8 | 722.6 | -215.9 | 2.00 | -2.00 | 0.00 |
| 8,700.0 8,800.0 | | 68.97 68.97 | 8,608.6 8,707.9 | 283.4 287.6 | 736.9 748.1 | -220.2 -223.5 | 2.00 2.00 | -2.00 -2.00 | 0.00 0.00 |
| 0,000.0 | 5.65 | 00.97 | 6,707.9 | | 740.1 | -223.5 | 2.00 | -2.00 | 0.00 |
| 8,900.0 | | 68.97 | 8,807.6 | 290.7 | 756.0 | -225.8 | 2.00 | -2.00 | 0.00 |
| 9,000.0 | | 68.97 | 8,907.4 | 292.5 | 760.6 | -227.2 | 2.00 | -2.00 | 0.00 |
| 9,092.6 | 0.00 | 0.00 | 9,000.0 | 293.0 | 762.0 | -227.6 | 2.00 | -2.00 | 0.00 |
| Start 197.5 | hold at 9092.6 M | D | | | | | | | |
| 9,100.0 | | 0.00 | 9,007.4 | 293.0 | 762.0 | -227.6 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,107.4 | 293.0 | 762.0 | -227.6 | 0.00 | 0.00 | 0.00 |
| 9,206.6 | 0.00 | 0.00 | 9,114.0 | 293.0 | 762.0 | -227.6 | 0.00 | 0.00 | 0.00 |
| Top of SBS | SG SD | | | | | | | | |
| 9,290.1 | 0.00 | 0.00 | 9,197.5 | 293.0 | 762.0 | -227.6 | 0.00 | 0.00 | 0.00 |
| KOP #2 - S | tart Build 12.00 | | | | | | | | |
| 9,300.0 | 1.19 | 179.48 | 9,207.4 | 292.9 | 762.0 | -227.5 | 12.00 | 12.00 | 0.00 |
| 9,400.0 | 13.19 | 179.48 | 9,306.5 | 280.4 | 762.1 | -215.1 | 12.00 | 12.00 | 0.00 |
| 9,500.0 | 25.19 | 179.48 | 9,400.7 | 247.6 | 762.4 | -182.4 | 12.00 | 12.00 | 0.00 |
| 9,505.8 | 25.89 | 179.48 | 9,406.0 | 245.1 | 762.4 | -179.9 | 12.00 | 12.00 | 0.00 |
| Top of TBS | | | , | | | | | | |
| 9,600.0 | | 179.48 | 9,486.1 | 195.9 | 762.9 | -130.8 | 12.00 | 12.00 | 0.00 |
| 9,700.0 | 49.19 | 179.48 | 9,558.9 | 127.6 | 763.5 | -62.7 | 12.00 | 12.00 | 0.00 |
| Explorer 1 | 5 State Com 602H | FTP | | | | | | | |
| 9,800.0 | 61.19 | 179.48 | 9,615.9 | 45.7 | 764.2 | 19.0 | 12.00 | 12.00 | 0.00 |
| 9,848.3 | 66.99 | 179.48 | 9,637.0 | 2.2 | 764.6 | 62.3 | 12.00 | 12.00 | 0.00 |
| Top of TBS | SG SD | | | | | | | | |
| 9,900.0 | 73.19 | 179.48 | 9,654.6 | -46.3 | 765.1 | 110.7 | 12.00 | 12.00 | 0.00 |
| 10,000.0 | | 179.48 | 9,673.3 | -144.4 | 766.0 | 208.5 | 12.00 | 12.00 | 0.00 |
| 10,040.1 | | 179.48 | 9,675.0 | -184.4 | 766.3 | 248.5 | 12.00 | 12.00 | 0.00 |
| | 930.0 hold at 100 | | 2,21212 | | | | | | |
| 10,100.0 | | 179.48 | 9,675.0 | -244.3 | 766.9 | 308.2 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | | 179.48 | 9,675.0 | -344.3 | 767.8 | 407.9 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 10,300.0 | | 179.48 | 9,675.0 | -444.3 | 768.7 | 507.6 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | | 179.48 179.48 | 9,675.0 9,675.0 | -544.3 -644.3 | 769.6 770.5 | 607.3 707.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 10,500.0 10,600.0 | | 179.48 | 9,675.0 9,675.0 | -644.3 -744.3 | 770.5 771.4 | 707.0 806.8 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | | 179.48 | 9,675.0 | -744.3 -844.3 | 771.4 | 906.5 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 10,800.0 | | 179.48 | 9,675.0 | -944.3 | 773.2 | 1,006.2 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | | 179.48 | 9,675.0 | -1,044.3 | 774.2 | 1,105.9 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | | 179.48 | 9,675.0 | -1,144.3 | 775.1 | 1,205.6 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | | 179.48 | 9,675.0 | -1,244.3 1 344 3 | 776.0 | 1,305.3 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | | 179.48 | 9,675.0 | -1,344.3 | 776.9 | 1,405.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | | 179.48 | 9,675.0 | -1,444.3 | 777.8 | 1,504.8 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | | 179.48 | 9,675.0 | -1,544.3 | 778.7 | 1,604.5 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | | 179.48 | 9,675.0 | -1,644.3 | 779.6 | 1,704.2 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | | 179.48 | 9,675.0 | -1,744.3 | 780.5 | 1,803.9 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 179.48 | 9,675.0 | -1,844.3 | 781.4 | 1,903.6 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | | 179.48 | 9,675.0 | -1,944.3 | 782.3 | 2,003.3 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | | 179.48 | 9,675.0 | -2,044.3 | 783.2 | 2,103.1 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | | 179.48 | 9,675.0 | -2,144.2 | 784.2 | 2,202.8 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | | 179.48 | 9,675.0 | -2,244.2 | 785.1 | 2,302.5 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 179.48 | 9,675.0 | -2,344.2 | 786.0 | 2,402.2 | 0.00 | 0.00 | 0.00 |





Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1

Well: Explorer 15 State Com 602H OH

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

| elibore: esign: | Plan 0.1 | | | | | | | | |
|--------------------|--------------------|----------------|-----------------|-----------------|-----------------|-------------------|---------------------|---------------------|---------------------|
| anned Survey | | | | | | | | | |
| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
| Depth (usft) | Inclination (°) | Azimuth (°) | Depth (usft) | +N/-S (usft) | +E/-W (usft) | Section (usft) | Rate (°/100usft) | Rate (°/100usft) | Rate (°/100usft) |
| 12,300.0 | 90.00 | 179.48 | 9,675.0 | -2,444.2 | 786.9 | 2,501.9 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 179.48 | 9,675.0 | -2,544.2 | 787.8 | 2,601.6 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 179.48 | 9,675.0 | -2,644.2 | 788.7 | 2,701.4 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 179.48 | 9,675.0 | -2,744.2 | 789.6 | 2,801.1 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 179.48 | 9,675.0 | -2,844.2 | 790.5 | 2,900.8 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 179.48 | 9,675.0 | -2,944.2 | 791.4 | 3,000.5 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 179.48 | 9,675.0 | -3,044.2 | 792.3 | 3,100.2 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 179.48 | 9,675.0 | -3,144.2 | 793.2 | 3,199.9 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 179.48 | 9,675.0 | -3,244.2 | 794.2 | 3,299.7 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 179.48 | 9,675.0 | -3,344.2 | 795.1 | 3,399.4 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 179.48 | 9,675.0 | -3,444.2 | 796.0 | 3,499.1 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 179.48 | 9,675.0 | -3,544.2 | 796.9 | 3,598.8 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 179.48 | 9,675.0 | -3,644.2 | 797.8 | 3,698.5 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 179.48 | 9,675.0 | -3,744.2 | 798.7 | 3,798.2 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 179.48 | 9,675.0 | -3,844.2 | 799.6 | 3,897.9 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 179.48 | 9,675.0 | -3,944.2 | 800.5 | 3,997.7 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 179.48 | 9,675.0 | -4,044.2 | 801.4 | 4,097.4 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 179.48 | 9,675.0 | -4,144.2 | 802.3 | 4,197.1 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 179.48 | 9,675.0 | -4,244.2 | 803.2 | 4,296.8 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 179.48 | 9,675.0 | -4,344.2 | 804.2 | 4,396.5 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 179.48 | 9,675.0 | -4,444.2 | 805.1 | 4,496.2 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 179.48 | 9,675.0 | -4,544.1 | 806.0 | 4,596.0 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 179.48 | 9,675.0 | -4,644.1 | 806.9 | 4,695.7 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 179.48 | 9,675.0 | -4,744.1 | 807.8 | 4,795.4 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 179.48 | 9,675.0 | -4,844.1 | 808.7 | 4,895.1 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 179.48 | 9,675.0 | -4,944.1 | 809.6 | 4,994.8 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 179.48 | 9,675.0 | -5,044.1 | 810.5 | 5,094.5 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 179.48 | 9,675.0 | -5,144.1 | 811.4 | 5,194.3 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 179.48 | 9,675.0 | -5,244.1 | 812.3 | 5,294.0 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 179.48 | 9,675.0 | -5,344.1 | 813.2 | 5,393.7 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 179.48 | 9,675.0 | -5,444.1 | 814.2 | 5,493.4 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 179.48 | 9,675.0 | -5,544.1 | 815.1 | 5,593.1 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 179.48 | 9,675.0 | -5,644.1 | 816.0 | 5,692.8 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 179.48 | 9,675.0 | -5,744.1 | 816.9 | 5,792.5 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 179.48 | 9,675.0 | -5,844.1 | 817.8 | 5,892.3 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 179.48 | 9,675.0 | -5,944.1 | 818.7 | 5,992.0 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 179.48 | 9,675.0 | -6,044.1 | 819.6 | 6,091.7 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 179.48 | 9,675.0 | -6,144.1 | 820.5 | 6,191.4 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 179.48 | 9,675.0 | -6,244.1 | 821.4 | 6,291.1 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 179.48 | 9,675.0 | -6,344.1 | 822.3 | 6,390.8 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 179.48 | 9,675.0 | -6,444.1 | 823.2 | 6,490.6 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 179.48 | 9,675.0 | -6,544.1 | 824.2 | 6,590.3 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 179.48 | 9,675.0 | -6,644.1 | 825.1 | 6,690.0 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 179.48 | 9,675.0 | -6,744.1 | 826.0 | 6,789.7 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 179.48 | 9,675.0 | -6,844.1 | 826.9 | 6,889.4 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 179.48 | 9,675.0 | -6,944.0 | 827.8 | 6,989.1 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 179.48 | 9,675.0 | -7,044.0 | 828.7 | 7,088.9 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 179.48 | 9,675.0 | -7,144.0 | 829.6 | 7,188.6 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 179.48 | 9,675.0 | -7,244.0 | 830.5 | 7,288.3 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 179.48 | 9,675.0 | -7,344.0 | 831.4 | 7,388.0 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 179.48 | 9,675.0 | -7,444.0 | 832.3 | 7,487.7 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 179.48 | 9,675.0 | -7,544.0 | 833.2 | 7,587.4 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 179.48 | 9,675.0 | -7,644.0 | 834.2 | 7,687.1 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 179.48 | 9,675.0 | -7,744.0 | 835.1 | 7,786.9 | 0.00 | 0.00 | 0.00 |

NATURAL RESOURCES

Planning Report



Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1

Explorer 15 State Com 602H

Wellbore: OH
Design: Plan 0.1

Well:

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

| coigii. | | | | | | | | | |
|--|---|--|---|--|---|--|---|---|---|
| Planned Survey | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 17,700.0 | 90.00 | 179.48 | 9,675.0 | -7,844.0 | 836.0 | 7,886.6 | 0.00 | 0.00 | 0.00 |
| 17,800.0 17,900.0 18,000.0 18,100.0 18,200.0 18,300.0 18,400.0 18,500.0 18,600.0 18,700.0 | 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 | 179.48 179.48 179.48 179.48 179.48 179.48 179.48 179.48 179.48 | 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 | -7,944.0 -8,044.0 -8,144.0 -8,244.0 -8,344.0 -8,544.0 -8,644.0 -8,744.0 -8,844.0 | 836.9 837.8 838.7 839.6 840.5 841.4 842.3 843.2 844.2 | 7,986.3 8,086.0 8,185.7 8,285.4 8,385.2 8,484.9 8,584.6 8,684.3 8,784.0 8,883.7 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| 18,800.0 18,900.0 19,000.0 19,100.0 19,200.0 | 90.00 90.00 90.00 90.00 90.00 | 179.48 179.48 179.48 179.48 179.48 | 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 | -8,944.0 -9,044.0 -9,144.0 -9,244.0 -9,344.0 | 846.0 846.9 847.8 848.7 849.6 | 8,983.5 9,083.2 9,182.9 9,282.6 9,382.3 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 19,300.0 19,400.0 19,500.0 19,600.0 19,700.0 | 90.00 90.00 90.00 90.00 90.00 | 179.48 179.48 179.48 179.48 179.48 | 9,675.0 9,675.0 9,675.0 9,675.0 9,675.0 | -9,443.9 -9,543.9 -9,643.9 -9,743.9 -9,843.9 | 850.5 851.4 852.3 853.2 854.2 | 9,482.0 9,581.7 9,681.5 9,781.2 9,880.9 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 19,800.0 19,900.0 19,970.1 TD at 19970. | 90.00 90.00 90.00 1 - Explorer 15 S | 179.48 179.48 179.48 State Com 602H | 9,675.0 9,675.0 9,675.0 LTP/BHL | -9,943.9 -10,043.9 -10,114.0 | 855.1 856.0 856.6 | 9,980.6 10,080.3 10,150.2 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |

| Design Targets | | | | | | | | | |
|--|-----------------------|----------------------|-------------------------|-----------------------------------|-------------------------|--------------------|-------------------|--------------|---------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Explorer 15 State Com 6 - plan hits target cente - Point | 0.00 er | 0.00 | 9,675.0 | -10,114.0 | 856.6 | 628,852.77 | 784,104.57 | 32.7262700°N | 103.5439080°W |
| Explorer 15 State Com 6 - plan misses target c - Point | 0.00 enter by 169. | 0.00 4usft at 970 | 9,675.0 0.0usft MD (| 250.9 9558.9 TVD, ⁷ | 760.3 127.6 N, 763.5 | 639,217.65 E) | 784,008.27 | 32.7547590°N | 103.5439700°W |





Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Explorer 15 State Com Pad 1
Well: Explorer 15 State Com 602H

Wellbore: OH
Design: Plan 0.1

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

| rmations | | | | | | |
|----------|-----------------------------|-----------------------------|------------------|-----------|------------|-------------------------|
| | Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 1,780.0 | 1,780.0 | RUSTLER | | | |
| | 1,890.0 | 1,890.0 | SALT | | | |
| | 3,655.0 | 3,655.0 | SEVEN RIVERS | | | |
| | 4,390.0 | 4,390.0 | QUEEN | | | |
| | 4,997.0 | 4,997.0 | CAPITAN REEF | | | |
| | 5,657.8 | 5,652.0 | CHERRY CANYON | | | |
| | 5,820.5 | 5,810.0 | BRUSHY CANYON | | | |
| | 6,623.9 | 6,590.0 | Top of BSGL | | | |
| | 8,503.4 | 8,415.0 | Top of FBSG SD | | | |
| | 9,206.6 | 9,114.0 | Top of SBSG SD | | | |
| | 9,505.8 | 9,406.0 | Top of TBSG Carb | | | |
| | 9,848.3 | 9,637.0 | Top of TBSG SD | | | |

| Plan Annotations | | | | |
|-----------------------------|-----------------------------|--------------------------------|----------------------------|--------------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coord +N/-S (usft) | dinates +E/-W (usft) | Comment |
| 5,000.0 | 5,000.0 | 0.0 | 0.0 | KOP - Start Build 2.00 |
| 5,694.3 | 5,687.5 | 30.0 | 78.1 | Start 2704.0 hold at 5694.3 MD |
| 8,398.3 | 8,312.5 | 263.0 | 683.9 | Start Drop -2.00 |
| 9,092.6 | 9,000.0 | 293.0 | 762.0 | Start 197.5 hold at 9092.6 MD |
| 9,290.1 | 9,197.5 | 293.0 | 762.0 | KOP #2 - Start Build 12.00 |
| 10,040.1 | 9,675.0 | -184.4 | 766.3 | LP - Start 9930.0 hold at 10040.1 MD |
| 19,970.1 | 9,675.0 | -10,114.0 | 856.6 | TD at 19970.1 |

| Inten | t | As Dril | led | | | | | | | | | | | |
|--------------------|-------------|--------------|-------------|---------|-----------------------|----------------|-------|---------|---------|----------|-------|-----------------|------------|-------------------------|
| API# | ŀ | |] | | | | | | | | | | | |
| Ope | rator Nai | me: | | | | Property Name: | | | | | | | | Well Number |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Kick (| Off Point | (KOP) | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Feet | Fi | rom N | l/S | Feet | | From | E/W | County | |
| Latitu | ude | | | | Longitu | ude | | | | | | | NAD | |
| | | | | | | | | | | | | | | |
| First ⁻ | Take Poir | nt (FTP) | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Feet | From N/S Feet | | | | From E/W | | County | | |
| Latitu | ude | | | | Longitu | ıde | | | | | | | NAD | |
| | | | | | | | | | | | | | | |
| Lact T | Take Poin | + /I TD\ | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Feet | From I | N/S | Feet | | From E/ | /w | Count | v | |
| Latitu | | | 0 | | Longitu | | | | | | | | | |
| Latite | auc | | | | Longitt | Longitude NAD | | | | | | | | |
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| Is this | s well the | defining v | vell for th | ne Hori | zontal S _ا | pacing L | Jnit? | <u></u> | | | | | | |
| ن مله در | مم المسم | infill well? | | | 7 | | | | | | | | | |
| is triis | s well all | ınını wenr | | | _ | | | | | | | | | |
| If infi | ll is ves p | lease provi | ide API if | availal | ble. Ope | rator Na | ame a | and w | /ell ni | umber f | for D | efinir | ng well fo | or Horizontal |
| | ng Unit. | icase provi | | avana | o.e, ope | | | | | | 0. 2 | · · · · · · · · | .B Well I | 51 11611 <u>2</u> 611ta |
| API# | ł | | | | | | | | | | | | | |
| Ope | rator Nai | me: | | | | Prope | rty N | ame: | | | | | | Well Number |
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KZ 06/29/2018