| Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN. APPLICATION FOR PERMIT TO D | | FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM128836 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. | | | | |
|--|---------------------|---|----------------------|--|--------------------|------------------|
| 1b. Type of Well: ✓ ✓ Oil Well Gas Well | other ingle Zone | Multiple Zone | | 8. Lease Name and ' GOLDEN TEE 31 [3 305H | | <u>MC</u> |
| 2. Name of Operator | | | | 9. API Well No. | 0 025 | 5-49328 |
| AVANT OPERATING LLC [330396] 3a. Address | 3b. Phone N | o. (include area cod | e) | 10. Field and Pool, o | | |
| 1515 WYNKOOP STREET, SUITE 700, DENVER, CO 80 | | · | / | Antelope Ridge/Bo | | |
| 4. Location of Well (<i>Report location clearly and in accordance</i> At surface NENE / 700 FNL / 430 FEL / LAT 32.35350 | 93 / LONG - | 103.3995753 | | 11. Sec., T. R. M. or SEC 31/T22S/R35 | | l Survey or Area |
| At proposed prod. zone SENE / 2540 FNL / 1254 FEL / I | | 405 / LONG -103.4 | 022338 | 12. County or Parish | | 13. State |
| 14. Distance in miles and direction from nearest town or post off 15 miles | ice* | | | LEA | 1 | NM |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of ac | res in lease | 17. Spacii 240.21 | ng Unit dedicated to tl | his well | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet | ····· | | | LM/BIA Bond No. in file NMB001882 | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3506 feet | 04/01/2021 | mate date work will | start* | 23. Estimated durati 60 days | on | |
| | 24. Attac | hments | | | | |
| The following, completed in accordance with the requirements o (as applicable) | f Onshore Oil | and Gas Order No. 1 | I, and the F | Iydraulic Fracturing r | ule per 4 | 3 CFR 3162.3-3 |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office | | Item 20 above). 5. Operator certific | ation. | is unless covered by ar mation and/or plans as | _ | |
| 25. Signature (Electronic Submission) | | (Printed/Typed) NWOOD / Ph: (72 | 0) 746-50 | 45 | Date 02/18/2 | 2021 |
| Title President | | | | | | |
| Approved by (Signature) (Electronic Submission) | | (Printed/Typed) Layton / Ph: (575) | 234-5959 | | Date 08/17/2 | 2021 |
| Title Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached. | | ad Field Office | nose rights | in the subject lease w | hich wou | ald entitle the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements | | | | | any depai | rtment or agency |
| NGMP Rec 08/18/2021 | | TH CONDIT | IONS | k 08/ | CZ 19/20 | 21 |
| SL | VED WI | | | | | |
| (Continued on page 2) | | . 09/17/2021 | | *(In | structic | ons on page 2) |

Approval Date: 08/17/2021

.

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 66240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, N.M. 66210 Phone: (575) 746-1263 Fax: (575) 746-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 67410 Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT. IV 1220 S. St. Francis Dr., Santa Fe, N.M. 67505 Phone: (505) 476-3460 Fax: (505) 476-3482 State of New Mexico Energy, Minerals & Natural Resources Department

> OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

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

□ AMENDED REPORT

| 'Arr Number 30-025-49328 'Pool Ode 2005 ANTELOPE RIDGE: BONE SPRING, NORTH 2005 'Property Name 'Pool Ode 2005 'Property Name 'Feel Number 2005 331355 Golden Tee 31 Fed Com 'Status 'Operator Name 'Operator Name 'Status 'Operator Name 'Operator Name 'Status 'Operator Name 'Status 'Status 'A a 31 22 S Status Localion 'UL or Iot Ian. Section Tomship Range Lot Ian ''Bolt on tho Social Tomship Range Lot Ian Feet from the Best/Feet line Compt ''Bolt on thole Localion If Different From Status Leas Leas ''Bolt on thill Compton Intell North 1254 East Lea ''Bolt on thill ''Bolt on thill ''Compton North 1254 Leas Leas ''Bolt on thill ''Bolt on thill ''Bolt on thill North 1254 Leas ''Bolt on thole Scion 1 ''Bolt on thole | | | | WE | ELL I | JOCA' | TION | AND AC | REAGE | DEDI | CATION PI | LAT | | | |
|--|--|-----------------------|----------|-------|-------------------|---------|----------------------|-----------------------|-------------------------|--------------|--------------------------------|-------------|-----------|---|------------------------|
| **rojevty Kane **rojevty Kane **rojevty Kane 331355 Golden Tres 31 Fed Com 305H 303096 **rojevty Kane **rojevty Kane 301355 Golden Tres 31 Fed Com 305H 10 of an associan Tormahip Range Lot Man Peet From the Morth/South Hine Peet from the Kant/West Hine County A 31 22 S S5 E 700 North 430 East Lea ** Bottom Hole Location If Different From Surface ** Bottom Hole Location If Different From Surface County East Lea ** Bottom Hole Location If County ** Solid tor Infill ** County East Lea ** Bottom Hole Location If County ** Solid tor Infill ** County East Lea ** Bottom Hole Location If County ** Solid tor Infill ** County ** County ** County ** County ** Solid tor Infill ** County ** County ** County ** County ** Solid tor Infill ** County ** Solid tor Infill ** County ** County ** County ** Solid tor Infill ** County ** Solid tor Infill ** County <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>OPE</td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | OPE | | | | | |
| 331355 Golden Tee 31 Fed Com 305H 'ootBB Re 330396 ''Derector Name ''Envention 3506 ''U or let no. 0'L or | | | | _ | | 22 | 205 | ⁶ Property | | | nidae, de | | | | |
| TOGED By: "Dependent Mane "Beterion 330396 Avant Operating, LLC 3506 ¹⁰ Surface Location ¹⁰ Surface Location 3506 U. or lot no. Section Township Bange Lot Man. Peet from the Morth/South line Feet from the East Lea U. or lot no. Section Township Bange Lot Man. Peet from the Morth/South line Feet from the East Lea U. or lot no. Section Township Bange Lot Man. Peet from the Morth/South line Peet from the East Lea U. or lot no. Section Township Bange Lot Man. Peet from the Morth/South line Peet from the East Lea "Beddend Area 31 22 S 35 E 2540 North 1254 East Lea "Breat form thill "Common thill "commondation Code Order No. Township Rest Lea 240.21 "Status" "Status" Peet from the Morth/South line Peet from the Division North 16 "Status" "Status" Status" Status" North 1254 10 OR A NON-STANDATHID UNITI ALL North Morth North North 100 North <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Gol</td><td></td><td></td><td>n</td><td></td><td></td><td></td><td>305H</td></td<> | | | | | | | Gol | | | n | | | | 305H | |
| ¹⁰ Surface Location UL or lot no. Section A 31 22 S 35 E 700 North/South line Petrom the Batt/Reet line County H County Petrom the East/Meer line Petrom the County Petrom the County Petrom top County Petrom top County Petrom top County Petrom top <th colspan<="" td=""><td>"OGRID N</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>⁹ Elevation</td></th> | <td>"OGRID N</td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>⁹ Elevation</td> | "OGRID N | | | _ | | | | | | | | | | ⁹ Elevation |
| Ut. or lot no. Section Tormabip Reage Lot Idn Peet from the bit of the | 33039 | 6 | | | | | | | | | | | | 3506 | |
| Ut. or lot no. Section Tormabip Reage Lot Idn Peet from the bit of the | | | | | | | 1 | ^o Surface | Location | | | | | | |
| If Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot din Peet from the Peet from the End/West line County H 6 23 S 35 E 2540 North 1254 East Lea Padiated Ares Paloin or Infill "Consolitation Code "North/South line Feet from the East Lea 240.21 OR A NSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION Inter control 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 Inter control Inter control <tr< td=""><td>UL or lot no.</td><td>Section</td><td>Township</td><td>F</td><td>Range</td><td>Lot I</td><td>dn F</td><td>eet from the</td><td>North/Sout</td><td>h line</td><td>Feet from the</td><td>East/We</td><td>st line</td><td>County</td></tr<> | UL or lot no. | Section | Township | F | Range | Lot I | dn F | eet from the | North/Sout | h line | Feet from the | East/We | st line | County | |
| UL or lot no. Section Township Range Lot Idn Pest from the North/South line Peet from the East/Test line County H 6 23 S 35 E 2540 North 1254 East Loa ** Delicited Acres ** Jaint or Infli ** Consolitation Code ** Order No. C ** Loa ** NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS EEEN APPROVED BY THE DIVISION 1* ** </td <td>A and</td> <td>31</td> <td>22 S</td> <td></td> <td>35 E</td> <td></td> <td></td> <td>700</td> <td>North</td> <td>n</td> <td>430</td> <td>Eas</td> <td>st</td> <td>Lea</td> | A and | 31 | 22 S | | 35 E | | | 700 | North | n | 430 | Eas | st | Lea | |
| H 6 23 S 35 E 2540 North 1254 East Lea **Bedicated Acres **Logination Code **Order No. C **Order No. C C 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 10 ************************************ | | | | 1 | ¹ Bott | om H | Iole L | ocation I | Differen | t Fro | m Surface | | | | |
| Padicated Acres P Joint or Infill "Composition Code POrder No. 240.21 OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 10 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 10 NO ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE DEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 110 NO SURFACE LOCATION OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 110 N 8022113* E 111 N 8022113* E 112 N 8022113* E 113 N 8022113* E 114 N 8022113* E 115 100 116 N 8022113* E 117 100 118 11224 119 11224 110 11224 110 11224 111 11224 111 11224 111 11224 111 11224 111 11224 111 11224 1112 11224 1112 11224 1 | UL or lot no. | Section | Township | F | Range | Lot I | dn F | eet from the | North/Sout | h line | Feet from the | East/We | st line | County | |
| 240.21 C 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 18 Image: Supervise of the set of th | н — | 6 | 23 S | : | 35 E | | | 2540 | North | ı | 1254 | Eas | st | Lea | |
| 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 ¹⁸ ¹⁹ ¹⁹ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹¹ ¹⁰ ¹¹ ¹⁰ ¹⁰ ¹¹ ¹⁰ ¹¹ ¹⁰ ¹¹ | ¹³ Dedicated Acres | 3 | | 19 J | loint or | Infill | ¹⁴ Consol | idation Code | ¹⁶ Order No. | | | | | | |
| OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 16 N 89725135 C 125335 C 1260511 C 200511 C 1 1 C 200511 C 200512 C | 240.21 | 40.21 C | | | | | | | | | | | | | |
| 18 N 89/25'13" € 2254' SUBFACE LOCATION NDD 33 MMSPC ZONE 3001 Y 4 69255 9.4 N E 625650.7 8 E 100' 70' 10 FL 100' 250' 10 Lot 1 100' 250' 10 Lot 2 260' 260' 100' FL 100' 25' 100' FL 250' 26' 100' FL 100' 26' 100' FL 25' 5' 100' FL 10' 5' 10' FL 10' 10' < | NO ALLOW | ABLE W | ILL BE | ASS | SIGNEI |) TO | THIS | COMPLETI | ON UNTIL | ALL | INTERESTS H | IAVE B | EEN (| CONSOLIDATED | |
| NB 89/25/13/E 100 | | | OR A | NOI | N-STA | NDAR | D UN | IT HAS BI | EEN APPR | OVED | BY THE DIV | ISION | | | |
| SUBFACE LOCATION NAD B3 NMSPC ZONE 3001 Y = 43555.34 N E26260.76 E 2608.11' 100' 100' 1 hardy crifty that the suborday and belief, and that the suborday suborday suborday and belief, and that the suborday subor | 16 | | | - | N | 89'25'1 | 3" F | N 89* | 25'21" E 125 39.53' | 4' | 17 OP | ERATO | R CE | RTIFICATION | |
| NOD 53 NMSPC ZONE 3001 > Lot 1 > and that this enganization situer outs a unorking interest of a contract with an internal interest on the and inclusing the properties bettim hale location of the and inclusing the moment interest on the and inclusing properties bettim hale location of such a minority profession many profession interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or the interest or to a vibility of the and inclusion of the interest or to a vibility of the and inclusion of the interest or the interest or to a vibility of the and inclusion of the interest or the interest or to a vibility of the and inclusion of the interest or the prestanded vibility. The interest or the interest ore ond | | | | 9 | 2 | | | 100'- | | 700 | | | | | |
| Y = 493595,94 N X = 493595,94 N LONG = 103,3995723 W LONG = 103,4022433 W LONG = 103,402233 W LONG = 103,40223 W LONG = 104,400 H LONG = 104,400 H LONG = 104,400 H LONG = 104,400 H LONG | SURFACE I | LOCATION C ZONE 30 | 01 | > | | | | | IN/ | | and that this o | rganization | either ou | ons a working interest | |
| LAT = 32.333303 N LONG = 103.399573 W LONG = 103.4022433 W Z Lot 2 Lot 2 | Y= 49359 | 95.94 N | | | | | | | . ≥ | | | | | | |
| NAD 83 NNSPC ZONE 3001 100 FNL, 1254 101 FNL, 1254 102 FNL, 1254 103 Section 31 104 Section 31 105 FNL, 1254 106 Section 31 107 FNL, 1254 108 FNL, 1254 109 FNL, 1254 100 FNL, 1254 100 FNL, 1254 101 Section 31 102 FNL, 1254 103 Section 31 104 Nappic 12" E 105 Section 31 105 Section 31 105 Section 31 106 Section 31 107 Section 31 108 Section 31 109 Section 31 108 Section 31 109 Section 31 100 Section 31 </td <td>LAT.= 32.35</td> <td>535093°N</td> <td>-</td> <td>റ്റജ</td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td>32'4</td> <td>well at this loc</td> <td>ation prosu</td> <td>ent to a</td> <td>contract with an</td> | LAT.= 32.35 | 535093°N | - | റ്റജ | | _ | _ | | | 32'4 | well at this loc | ation prosu | ent to a | contract with an | |
| NAD 83 NNSPC ZONE 3001 100 FNL, 1254 101 FNL, 1254 102 FNL, 1254 103 Section 31 104 Section 31 105 FNL, 1254 106 Section 31 107 FNL, 1254 108 FNL, 1254 109 FNL, 1254 100 FNL, 1254 100 FNL, 1254 101 Section 31 102 FNL, 1254 103 Section 31 104 Nappic 12" E 105 Section 31 105 Section 31 105 Section 31 106 Section 31 107 Section 31 108 Section 31 109 Section 31 108 Section 31 109 Section 31 100 Section 31 </td <td>LUNG.= 103.</td> <td>2882122 1</td> <td>v</td> <td>26.</td> <td></td> <td></td> <td></td> <td></td> <td>019.</td> <td></td> <td>voluntary poolis</td> <td>g agreemen</td> <td>t or a co</td> <td></td> | LUNG.= 103. | 2882122 1 | v | 26. | | | | | 019. | | voluntary poolis | g agreemen | t or a co | | |
| 100 FNL, 1254 FEL Section 31 1 SEC. 31, 1225, R35E Y= 494187.86 N Z=18-21 LONG= 103.4022453' W Int 3 Social 29 E Date LONG= 103.4022453' W Int 3 Social 29 E Date LAST TAKE POINT NAD 83 NNSPC ZONE 3001 2540' FNL 1254' FEL Int 4 N 89'25'12'' E Social 20 SEC. 6, 103.4022453' W Int 4 N 89'25'12'' E Social 20 Y= 466469.48 N X Segregation Social 20 Y= 466469.48 N X Segregation Social 20 V= 466469.48 N Social 20 Segregation Social 20 Y= 466469.48 N Social 20 Segregation Social 20 Y= 466469.48 N Social 20 Segregation Social 20 Y= 466469.48 N Social 20 Social 20 Social 20 Y= 466469.48 N Social 20 Social 20 Social 20 Y= 466469.48 N Social 20 Social 20 Social 20 Y= 466469.48 N Social 20 Social 20 Social 20 Y= 466469.48 N Social 20 Social 20 Social 20 Y= 203.4023336'W <td< td=""><td>FIRST TAK</td><td>E POINT</td><td>01</td><td>z</td><td>Lot 2</td><td>2</td><td></td><td></td><td></td><td>z</td><td>heretofore enter</td><td>ed by the d</td><td>intriop</td><td></td></td<> | FIRST TAK | E POINT | 01 | z | Lot 2 | 2 | | | | z | heretofore enter | ed by the d | intriop | | |
| Y= 494187.86 N 2-18-21 LAT.= 32.3551560° N Iot 3 S 00731'29" E Signature Date LAT.= 32.3551560° N Iot 3 7718.70° Signature Date LAST TAKE POINT Signature Iot 4 Iot 3 1000000000000000000000000000000000000 | 100' FNL, 1 | 1254' FEL | | | | | | | ² | 6 | 12. | 1 | V | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Y= 49418 | 87.86 N | | 4 | | | -Sec | ction 31 | | ۲ | Lit | 400 | × | 0 10 01 | |
| LAST TAKE POINT NAD 83 NMSPC ZONE 3001 2540' FNL, 1254' FEL Lot 4 N 89'25'12" E 2639.39' Z BRIAN WOOD 2540' FNL, 1254' FEL Z Lot 4 N 89'25'12" E 2639.39' Z Z Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405' N LONG.= 103.4022338' W Lot 4 Lot 3 Lot 2 Lot 1 Z BOTTOM HOLE LOCATION NAD 83 NMSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405' N LONG.= 103.4022338' W Lot 4 Lot 3 Lot 2 Lot 1 Z Z Lot 4 Lot 5 Lot 2 Lot 1 Z Lot 1 Z Z Z Lot 2 Lot 1 Z <td>LAT.= 32.35</td> <td>551560°N</td> <td></td> <td>z</td> <td>l lot</td> <td>, </td> <td>S</td> <td>00"31'29" E</td> <td>1</td> <td>2</td> <td></td> <td></td> <td>_</td> <td></td> | LAT.= 32.35 | 551560°N | | z | l lot | , | S | 00"31'29" E | 1 | 2 | | | _ | | |
| LAST TAKE POINT NAD 83 NMSPC ZONE 3001 2540* FNL 1254* FL SEC. 6, T23S, R35E Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405* N LONG. = 103.4022338* WLat 4NB 89'25'12" E 2639.39' T-22-S 2639.39'BOTTOM HOLE LOCATION NAD 83 NMSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405* N LONG. = 103.4022338* WLot 4Lot 3Lot 2 2540*Lot 1 E Colspan="2">Lot 4BOTTOM HOLE LOCATION NAD 83 NMSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405* N LONG. = 103.4022338* WLot 4Lot 3Lot 2 2540*Lot 1 E Colspan="2">Lot 5BOTTOM HOLE LOCATION NAD 83 NMSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405* N LONG. = 103.4022338* WLot 5Lot 518SURVEYOR CERTIFICATION I have used to that the same is true and correct to the best of my belief.Image: Lot 5Lot 5Lot 51254*18Survey Plat Revised: 1/27 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 | LONG.= 103.4 | 4022453° V | V | 225AU | | í I | | 7718.70 | | 0.00 | | | | Date | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | E BOINT | | 40.2 | | _ | | | <u></u> | 32.3 | | | | | |
| SEC. 6, T235, R35E $(505) 466-8120$ Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405' N LONG.= 103.4022338' W X = 828921.70 E LAT. = 32.3339405' N LONG.= 103.4022338' W LOT 4 Lot 3 Lot 2 Lot 1 X = 828921.70 E LAT. = 32.3339405' N LONG.= 103.4022338' W Z = Lot 5 Lot 5 Lot 5 Lot 5 Lot 6 Section 6 = 1254' = 103.4022338' W = 103.4020' | NAD 83 NMSPO | C ZONE 30 | 01 | 260 | | | N 80 | "OF'10" F | | 26.00 | | brian@ | perr | nitswest.com | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | SEC. 6, T2 | 3S, R35E | | z | Lot 4 | 4 | 26 | 539.39' | | z | E-mail Addr | ess | (50 | 5) 466-8120 | |
| LONG = 103.4022338' W LONG = 103.4022338' W BOTTOM HOLE LOCATION NAD 83 NMSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E LAT. = 32.3339405' N LONG = 103.4022338' W Z Lot 5 Lot 5 Lot 5 Lot 5 Lot 5 Lot 5 Lot 6 Section 6 $\Delta = First Take Point (LTP)$ $= Sourd 1918 USGLO Bross Cop \blacksquare = Found 1918 USGLO\blacksquare To Rod\square To$ | X= 82892 | 21.70 E | | 0 | s | | | | T-22-S | 5 | 18 SUR | VEYOR | <u> </u> | | |
| BOTTOM HOLE LOCATION NAD 83 NMSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E LAT.= 32.3339405' N LONG.= 103.4022338' W Z Lot 5 Lot 5 Lot 5 Lot 6 Section 6 = Found 1913 USGLO Brass Cop = Found 1918 USGLO Brass Cop = Found 11/2" Rebar with Cop | | | V | 4 | P | 2628.7 | 71' | Y | 1-23-5 | ſ | | | | | |
| NAD 83 MNSPC ZONE 3001 Y = 486469.48 N X = 828921.70 E Lot 5 Lot 5 Lot 5 Lot 5 Lot 5 Lot 6 Section 6 \square = Found 1918 USGLO Bross Cop \square = Found 1918 USGLO Bross Cop \square = Found 1918 USGLO Bross Cop \square = Found 1918 USGLO \square = Found 1/2" Rebar with Cop | | | | 8 | Lot 4 | + | Lot 3 | Lot 2 | Lot 1 | ≥ | | | | | |
| Long = 103.4022338' W Z Lot 5 Legend: • = Surface Location O = Bottom Hole Locotion Δ = First Take Point (FTP) = Lot 6 E_{rest} Lot 6 Lot 6 E_{rest} Section 6 • = Found 1913 USGLO Brass Cap • = Found 1918 USGLO Brass Cap • = Found 1' Iron Rod • = Found 1'' Iron Rod • = Found 1''' Rebar with Cap | | | | 29 | 6 | | | 2540 | | 80, | | | | | |
| Long = 103.4022338' W Z Lot 5 Legend: • = Surface Location O = Bottom Hole Locotion Δ = First Take Point (FTP) = Lot 6 E_{rest} Lot 6 Lot 6 E_{rest} Section 6 • = Found 1913 USGLO Brass Cap • = Found 1918 USGLO Brass Cap • = Found 1' Iron Rod • = Found 1'' Iron Rod • = Found 1''' Rebar with Cap | | | | 2639 | | | | | | 0°29 2642 | 1/21/2 | 1 | | | |
| $ \begin{array}{c} \bullet = \text{ surface Location} \\ \bullet = \text{ Bottom Hole Location} \\ \bullet = \text{ First Take Point (FTP)} \\ \bullet = \text{ Last Take Point (LTP)} \\ \bullet = \text{ Found 1913 USGLO} \\ \hline \bullet = \text{ Found 1913 USGLO} \\ \hline \bullet = \text{ Found 1918 USGLO} \\ \bullet = \text{ Found 1918 USGLO} \\ \bullet = \text{ Found 11 Iron Rod} \\ \hline \bullet \\ \bullet \\$ | LAT.= 32.33 LONG.= 103.4 | 339405°N 4022338°V | ı | | | 5 | | | li i | | | | ALL M | V I. | |
| $ \begin{array}{c} \bullet = \text{ surface Location} \\ \bullet = \text{ Bottom Hole Location} \\ \bullet = \text{ First Take Point (FTP)} \\ \bullet = \text{ Last Take Point (LTP)} \\ \bullet = \text{ Found 1913 USGLO} \\ \hline \bullet = \text{ Found 1913 USGLO} \\ \hline \bullet = \text{ Found 1918 USGLO} \\ \bullet = \text{ Found 1918 USGLO} \\ \bullet = \text{ Found 11 Iron Rod} \\ \hline \bullet \\ \bullet \\$ | | | | | | | | | 1254' | | Plat Revised: Signature and | Seel of Br | ALL | sulfiger | |
| $O = Bottom Hole Locotion$ $\Delta = First Take Point (FTP)$ $= Lot 6$ Lot 6Section 6 $O = Lost Take Point (LTP)$ $= Found 1913 USGLOBrass Cop\blacksquare = Found 1^{9} Isos Cop\blacksquare = Found 1^{9} Isos Cop\blacksquare = Found 1^{9} Iron RodLot 6Section 6O = Found 1^{9} Iron Rod\square Iron RodO = Found 1/2^{*} Rebar with Cap\square Iron Rod\square Iron Rod\square Iron Rod\square Iron Rod\square Iron Rod$ | | Location | | | | - | | | (| (| | 12/ | W MI | EX EX | |
| $ \begin{array}{c} \Box = \text{ First loke Point (FIP)} \\ \blacksquare = \text{ Last Take Point (LTP)} \\ \blacksquare = \text{ Lot 6} \\ \hline \\ \blacksquare = \text{ Found 1913 USGLO} \\ \blacksquare \text{ Brass Cap} \\ \blacksquare = \text{ Found 1918 USGLO} \\ \blacksquare = \text{ Found 1918 USGLO} \\ \blacksquare = \text{ Found 17 Iron Rod} \\ \blacksquare \text{ Int Iron Rod} \\ \blacksquare Int Iron Rod Iron $ | O = Bottom | Hole Loco | | | | | Se | ction 6 | 1 | | | 113 | (M | Xax \ | |
| Brass Cop | | | | | Lot | 6 | | | | | | 1/ all | 0707 | 84 | |
| | = Found | 1913 USGL | | | | | | | | | | 1 | | 111 | |
| ● = Found 1" Iron Rod The Lot 7 ○ = Found 1/2" Rebar with Cap | = Found | 1918 USGL | D | Ψ | | | | | | | | B. | 2-8- | 2/5/ | |
| $\bigcirc = \text{Found } 1/2^{*} \text{ Rebar with Cap} \xrightarrow{\alpha \cdot \alpha^{*}} 17078$ | | | t | 4 | -luo | 7 | | | | | | 1.23 | SIDALAL | CURVE | |
| O = Found Cut Tee Post | O = Found | 1/2" Rebar | with Cap | å | ι dr | | | | | | 1707 | B | UNAL | O CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE | |
| | = Found | Cut Tee Po | st | | L | | | | | | Certificate Nur | nber | | | |

Released to Imaging: 8/19/2021 3:09:20 PM

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.

<u>Section 1 – Plan Description</u> Effective May 25, 2021

I. Operator: Avant Operating, LLC OGRID: __330396_____ Date: 08/18/21

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other, If Other, please describe:

III. Well(s): 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 AP | I ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|---|-------------------|---------------------|--------------------------|--------------------------|--|
| Golden Tee 31 Fed Com 304H | A-31-22S-35E | 550 FNL; 430 FEL | 2,700 | 6,000 | 10,500 |
| Golden Tee 31 Fed Com 305H 30-025-4 | 9328 A-31-22S-35E | 700 FNL; 430 FEL | 2,700 | 6,000 | 10,500 |
| Golden Tee 31 Fed Com 306H | A-31-22S-35E | 850 FNL; 430 FEL | 2,700 | 6,000 | 10,500 |
| Golden Tee 31 Fed Com 504H | A-31-22S-35E | 550 FNL; 400 FEL | 2,700 | 6,000 | 10,500 |
| Golden Tee 31 Fed Com 505H | A-31-22S-35E | 700 FNL; 400 FEL | 2,700 | 6,000 | 10,500 |
| Golden Tee 31 Fed Com 506H | A-31-22S-35E | 850 FNL; 400 FWL | 2,700 | 6,000 | 10,500 |

IV. Central Delivery Point Name: _____Golden Tee CTB ______ [See 19.15.27.9(D)(1) NMAC]

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 | Spud Date TD Reached Completion Date Commencement Date | | Initial Flow Back Date | First Production Date |
|----------------------------------|-------------|-----------|---|------------|---------------------------|--------------------------|
| Golden Tee 31 Fed Com 304H | | 7/15/2022 | 9/15/2022 | 10/16/2022 | 11/27/2022 | 12/1/2022 |
| Golden Tee 31 Fed Com 305H 30 | 0-025-49328 | 7/15/2022 | 9/30/2022 | 10/16/2022 | 11/27/2022 | 12/1/2022 |
| Golden Tee 31 Fed Com 306H | | 7/15/2022 | 10/15/2022 | 10/16/2022 | 11/27/2022 | 12/1/2022 |
| Golden Tee 31 Fed Com 504H | | 7/15/2022 | 7/30/2022 | 10/16/2022 | 11/27/2022 | 12/1/2022 |

| Golden Tee 31 Fed Com 505H | 7/15/2022 | 8/15/2022 | 10/16/2022 | 11/27/2022 | 12/1/2022 |
|-------------------------------|-----------|-----------|------------|------------|-----------|
| Golden Tee 31 Fed | 7/15/2022 | 8/30/2022 | 10/16/2022 | 11/27/2022 | 12/1/2022 |
| Com 506H | | | | | |

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 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

 \Box Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF | | |
|------|-----|---|---|--|--|
| | | | | | |
| | | | | | |

X. Natural Gas Gathering System (NGGS):

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity |
|----------|--------|-----------------|-------------------------------------|----------------------------------|
| | | | Start Date | of System Segment Tie-in |
| | | | | |

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

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

 \boxtimes 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

 \Box 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. \Box 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.

| Signature: |
|--|
| Printed Name: John Harper |
| Printed Name: John Harper Title: VP of Geosciences E-mail Address: John @ Avantos. com |
| E-mail Address: John @ Avantor. com |
| |
| Date: 8/18/21 Phone: 678-988-66444 |
| OIL CONSERVATION DIVISION |
| (Only applicable when submitted as a standalone form) |
| |
| Approved By: |
| Approved By: Title: |
| |
| Title: |
| Title: Approval Date: |
| Title: Approval Date: |
| Title: Approval Date: |
| Title: Approval Date: |

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 notmeet 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, whichever is sooner. Avant will ensure that the flare is sized properly and is equipped withautomatic 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. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and repolted appropriately.
 - E. 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 withautomatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanksunless 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.
 - F. 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, orbeneficially used during production operations, will be measured, or estimated. Avant will install equipment to measure

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400069418

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Type: OIL WELL

Submission Date: 02/18/2021

Well Number: 305H

Well Work Type: Drill

Highlighted data reflects the most recent changes

08/18/2021

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

| Formation | | | True Vertical | | | Mineral Decourses | Producing |
|---------------|-------------------|-------------------|---------------|------------|--------------------------------|-------------------|----------------|
| ID 1609638 | Formation Name | Elevation 3506 | Depth 0 | Depth 0 | Lithologies OTHER : Caliche | Mineral Resources | Formation N |
| | QUATERNART | 3300 | 0 | 0 | OTHER: Odiene | OULABLE WATER | |
| 1609631 | RUSTLER ANHYDRITE | 1682 | 1824 | 1825 | ANHYDRITE | NONE | N |
| 1609632 | TOP SALT | 1316 | 2190 | 2212 | SALT | NONE | N |
| 1609633 | BASE OF SALT | -544 | 4050 | 4129 | SALT | NONE | N |
| 1609634 | SALADO | -713 | 4219 | 4265 | SALT | NONE | N |
| 1609635 | CAPITAN REEF | -1282 | 4788 | 4845 | LIMESTONE | USEABLE WATER | N |
| 1609628 | CHERRY CANYON | -2423 | 5929 | 6008 | SANDSTONE | NATURAL GAS, OIL | N |
| 1609629 | BRUSHY CANYON | -3742 | 7248 | 7347 | SANDSTONE | NATURAL GAS, OIL | N |
| 1609630 | BONE SPRING LIME | -5210 | 8716 | 8815 | LIMESTONE | NATURAL GAS, OIL | N |
| 1609636 | AVALON SAND | -5291 | 8797 | 8896 | LIMESTONE, OTHER : A | NATURAL GAS, OIL | N |
| 1609639 | AVALON SAND | -5546 | 9052 | 9151 | LIMESTONE, OTHER : B | NATURAL GAS, OIL | N |
| 1609637 | BONE SPRING 1ST | -6225 | 9731 | 9883 | SANDSTONE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10000

Equipment: A minimum 5M system will be used. The minimum blowout preventer equipment (BOPE) shown in BOP Diagram will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer, and an annular preventer (5000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas Order 2. **Reguesting Variance?** YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line). Co-flex line will be tested in accordance with highest BOP test pressures (5000 psi) before drilling out of surface casing and (5000 psi) before drilling out of intermediate casing. Pressure tests will be charted for records. The

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Number: 305H

manufacturers hydrostatic test report will be kept on location for inspection.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000 (high) / 250 (low) psig and the annular preventer to 3500 (high) / 250 (low) psig by an independent service company. Test charts will be kept on location at all times. Surface casing will be tested to 1500 psi for 30 minutes. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 (high) / 250 (low) psig and the annular preventer to 3500 (high) / 250 (low) psig by an independent service company. Test charts will be kept on location at all times. Intermediate casing will be tested to 2000 psi for 30 minutes. A solid steel body pack-off will be used after running and cementing the intermediate casing. After installation, pack-off and lower flange will be pressure tested to 5000 psi. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe. This pressure test will be repeated at least once every 30 days, as per Onshore Order 2. Kelly cock will be kept in the drill string at all times. Full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all time. The multi-bowl wellhead will be installed by a third-party welder while being monitored by the vendors representative. All BOP equipment will be tested using a conventional test plug - not a cup or J-packer type. Both the surface and intermediate casing strings will be tested as per Onshore Order 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

Choke Diagram Attachment:

GoldenTee_305H_Choke_20210218142449.pdf

BOP Diagram Attachment:

GoldenTee_305H_BOP_20210218142457.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|------------|--------|------------|-------------|-----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 17.5 | 13.375 | NEW | API | N | 0 | 1875 | 0 | 1874 | 3506 | 1632 | 1875 | J-55 | 54.5 | ST&C | 1.12 5 | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N | 0 | 4000 | 0 | 3959 | 3449 | -453 | 4000 | J-55 | 40 | LT&C | 1.12 5 | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N | 4000 | 5830 | 3959 | 5754 | -453 | -2248 | 1830 | HCK -55 | 40 | LT&C | 1.12 5 | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| | PRODUCTI ON | 8.75 | 5.5 | NEW | API | N | 0 | 17490 | 0 | 9880 | 3449 | -6374 | 17490 | P- 110 | 20 | BUTT | 1.12 5 | 1.12 5 | DRY | 1.6 | DRY | 1.6 |

Casing Attachments

Received by OCD: 8/18/2021 3:35:14 PM

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Number: 305H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldenTee_Casing_Design_Assumptions_20210218142535.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldenTee_Casing_Design_Assumptions_20210218142650.pdf

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $GoldenTee_Casing_Design_Assumptions_20210218142620.pdf$

Received by OCD: 8/18/2021 3:35:14 PM

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Number: 305H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $GoldenTee_Casing_Design_Assumptions_20210218142715.pdf$

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|---------------------------|---|
| SURFACE | Lead | | 0 | 1875 | 1240 | 1.77 | 13.5 | 2194 | 50 | Class C | 0.05% CSA-100 + 1% salt BWOW + 0.05% C- 45 + 4% STE + 4 lb/sk Kolseal |
| SURFACE | Tail | | 0 | 1875 | 342 | 1.33 | 14.8 | 454 | 50 | Class C | 2% CaCl2 |
| INTERMEDIATE | Lead | 4200 | 0 | 4200 | 695 | 2.22 | 12 | 1542 | 50 | Class C based HSLD 94 | 0.5% C-45 + 0.03% CSA-1000 + 0.25% C- 503P + 2% salt BWOW |
| INTERMEDIATE | Tail | | 0 | 4200 | 100 | 1.14 | 14.8 | 114 | 50 | Class C 50/50 Poz | 0.1% C-45 |
| INTERMEDIATE | Lead | | 4200 | 5830 | 250 | 2.24 | 12 | 560 | 25 | Class C based HSLD 94 | 0.25% C-45 + 0.03% CSA-1000 + 0.2% citric acid + 0.2% CFL-1 + 6# CT-15 + 0.5% salt BWOW |
| INTERMEDIATE | Tail | | 4200 | 5830 | 140 | 1.52 | 13.5 | 212 | 25 | Class C based HSLD 100 | 0.1% C-45 + 0.1% C-51 + 0.07% citric acid + 4% STE + 0.25% C503P + 0.2% CFL-1 |
| PRODUCTION | Lead | | 4738 | 1749 0 | 555 | 3.74 | 10.5 | 2075 | 25 | Class C based HSLD 94 | Class C based HSLD 94 + 0.75% C-45 + 0.55% citric acid + 0.25% CSA-1000 + 0.3% C-503P + 0.5% salt BWOW |

Page 11 of 38

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Number: 305H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|--------------------------|--|
| PRODUCTION | Tail | | 4738 | 1749 0 | 2191 | 1.46 | 13 | 3198 | 25 | Class H based HSLD 80 | 0.1% CSA-1000 + 0.25% C-503P + 0.04% C-23 + 0.3% CFL-1 + 1# Gypseal + 0.5% salt BWOW |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase requirements will be on site at all times. If any lost circulation occurs below the base of salt, Avant will switch drilling mud from brine to fresh water to protect the Capitan Reef until intermediate casing is set.

Describe the mud monitoring system utilized: An electronic pit volume totalizer (PVT) mud system will monitor pit volumes for gains or losses, flow rate, pump pressures, and stroke rate.

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | Hd | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-----------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0 | 1875 | OTHER : Fresh water spud | 8.6 | 8.8 | | | | | | | |
| 1875 | 5830 | OTHER : Brine | 10 | 10.2 | | | | | | | |
| 5830 | 1749 0 | OIL-BASED MUD | 8.8 | 9.2 | | | | | | | |

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Number: 305H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

No core or open hole or cased hole log is planned. GR log will be acquired by MWD tools throughout the well.

List of open and cased hole logs run in the well:

GAMMA RAY LOG, MEASUREMENT WHILE DRILLING,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4624

Anticipated Surface Pressure: 2450

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

GoldenTee_305H_H2S_Plan_20210218143006.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

GoldenTee_305H_Horizontal_Plan_20210218143016.pdf

Other proposed operations facets description:

All casing strings below the conductor will be pressure tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, then corrective action will be taken.

Other proposed operations facets attachment:

GoldenTee_305H_Drill_Plan_20210218143024.pdf GoldenTee_305H_Anti_Collision_Report_20210218143041.pdf GoldenTee_Speedhead_Specs_20210218143048.pdf Closed_Loop_20210218143054.pdf CoFlex_Certs_20210715122325.pdf GoldenTee_Casing_Procedures_20210715122344.pdf

Other Variance attachment:

Casing_Cementing_Variance_Request_20210715122356.pdf

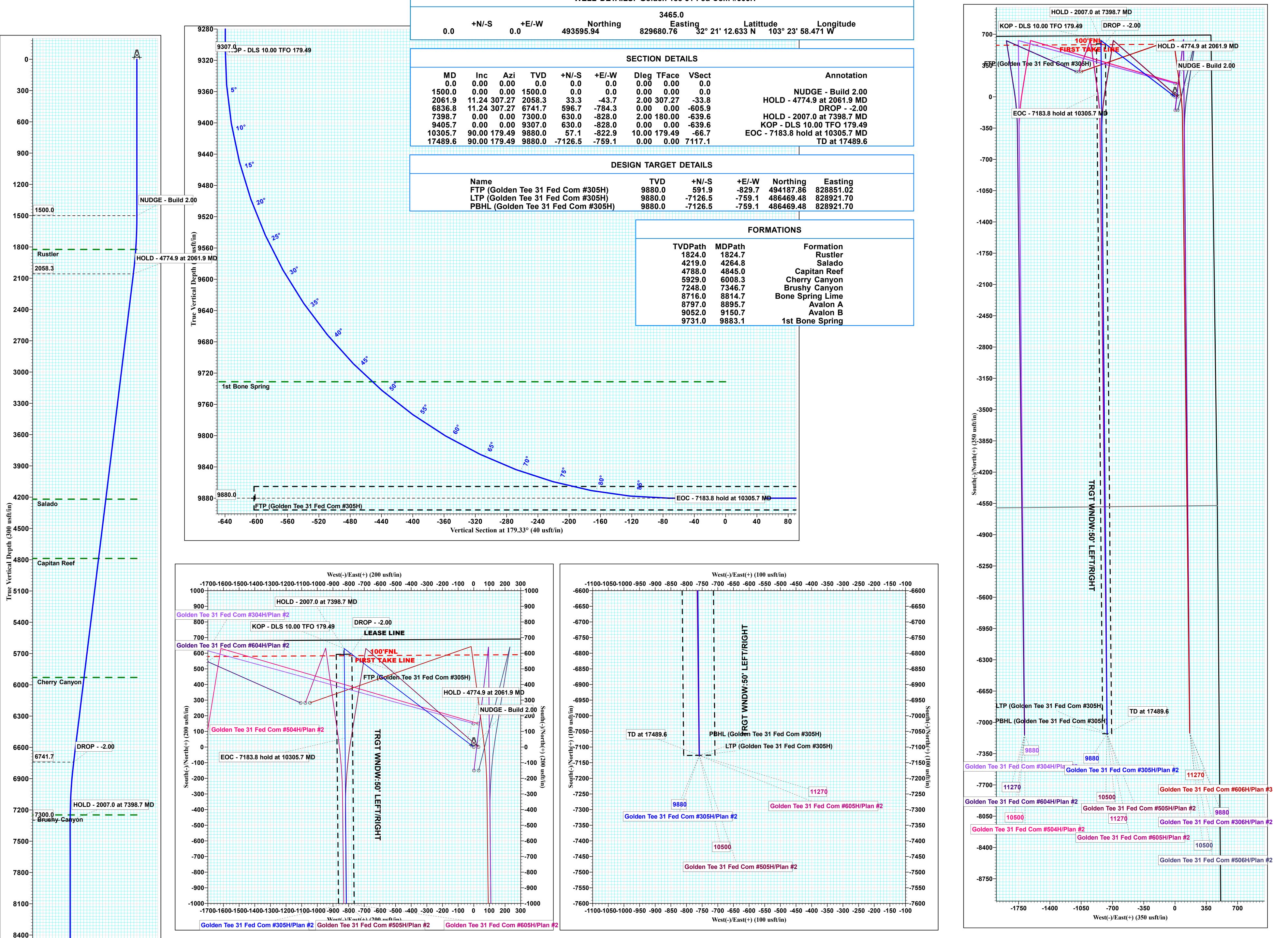
Received by OCD: 8/18/2021 3:35:14 PM

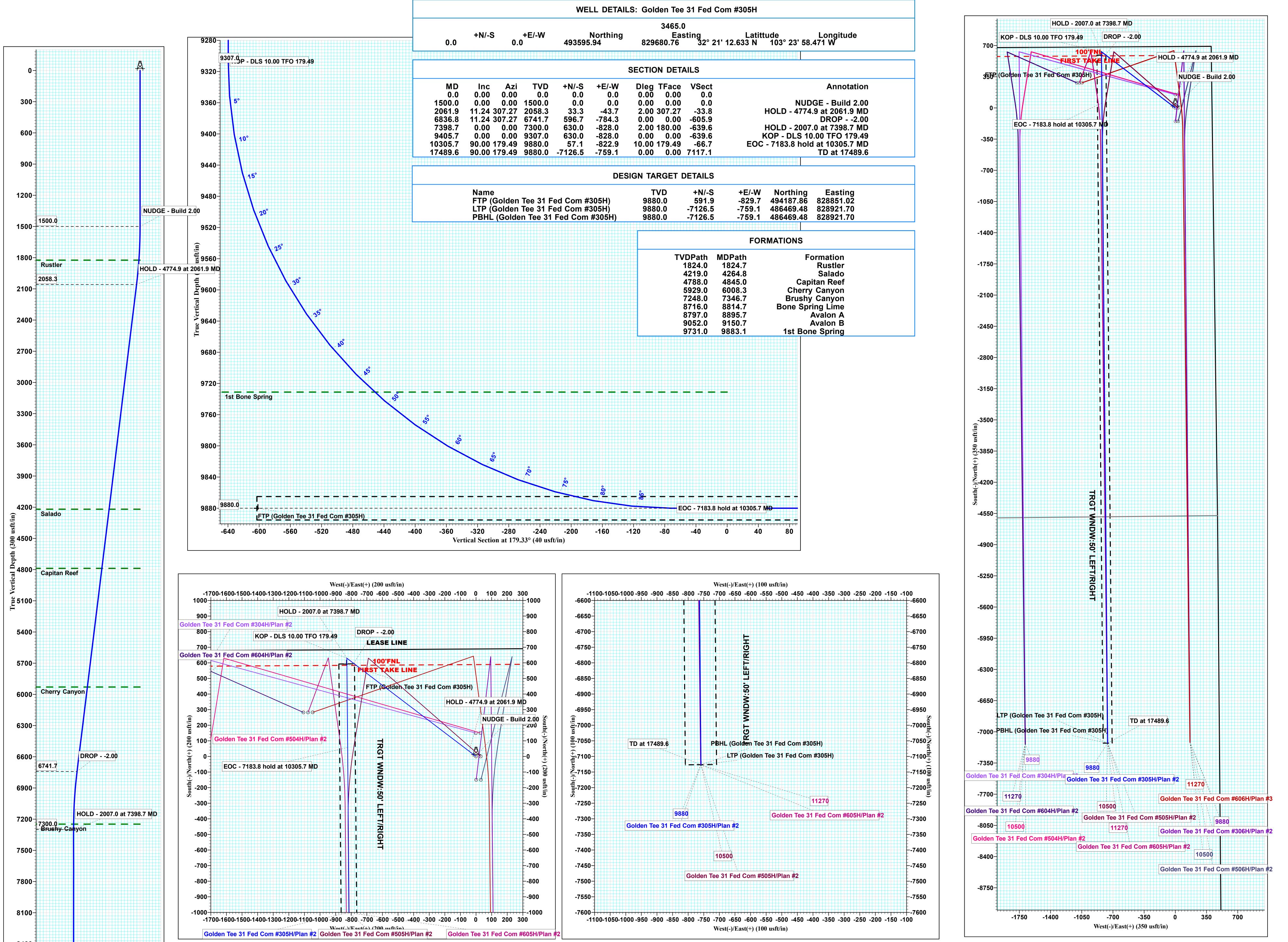
AVANT

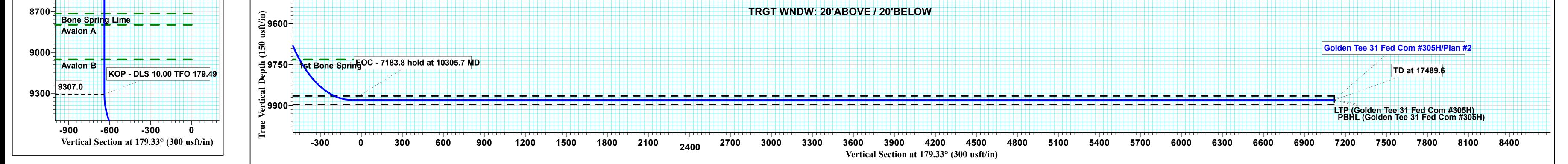
NATURAL RESOURCES

G Azimuths to Grid North True North: -0.50° **Avant Natural Resources** Μ Project: Lea County, NM (NAD 83 NME) Site: (Golden Tee) Sec-31_T-22-S_R-35-E Well: Golden Tee 31 Fed Com #305H Magnetic North: 6.02° Wellbore: OWB **Magnetic Field** Design: Plan #2 Strength: 47846.3nT Lat: 32° 21' 12.633 N Dip Angle: 60.00° Long: 103° 23' 58.471 W Date: 01/03/2021 Pad GL: 3465.0 Model: HDGM KB: KB @ 3490.0usft To convert a Magnetic Direction to a Grid Direction, Add 6.02°















| Database: Company: Project: Site: Well: Wellbore: Design: | Avant Lea C (Golde | en Tee) Sec- n Tee 31 Fec | | -35-E | TVD Refe MD Refe North Re | | | Well Golden 16 KB @ 3490.0u KB @ 3490.0u Grid Minimum Curv | sft | n #305H |
|---|---|--|---|---|---|---|---|---|---|---|
| Project | Lea Co | ounty, NM (N | AD 83 NME) | | | | | | | |
| Map System: Geo Datum: Map Zone: | US State North Ar | e Plane 1983 merican Datu xico Eastern | 3 m 1983 | | System D | atum: | Ν | lean Sea Level | | |
| Site | (Golde | n Tee) Sec-3 | 1_T-22-S_R- | 35-E | | | | | | |
| Site Position: From: Position Uncertair | Мар | 0 | North Easti | ing: | , |)78.21 usft)06.49 usft 13-3/16 " | Latitude: Longitude: Grid Conve | | | 32° 21' 17.720 N 103° 24' 41.253 W 0.49 ° |
| Well | Golden | Tee 31 Fed | Com #305H | | | | | | | |
| Well Position | +N/-S +E/-W | 3,674. | .3 usft Ea | orthing: sting: ellhead Eleva | otionu | 493,595.94 829,680.76 | usft Lo | titude: ongitude: ound Level: | | 32° 21' 12.633 N 103° 23' 58.471 W 3,465.0 usft |
| Position Uncertain | ity | 0. | | | ation. | | G | ound Level. | | 3,405.0 USI |
| Wellbore | OWB | | | | | | | | | |
| Magnetics | Мос | del Name | Sample | e Date | Declina (°) | ition | | Angle (°) | Field Stı (nT | • |
| | | HDGM | | 01/03/21 | | 6.52 | | 60.00 | 47,846 | 25958300 |
| Design | Plan #2 | 2 | | | | | | | | |
| Audit Notes: | | | | | | | | | | |
| Version: | | | Phas | e: P | LAN | Tie | On Depth: | | 0.0 | |
| Vertical Section: | | De | epth From (T | VD) | +N/-S | _ | /-W | | ection | |
| | | | (usft) 0.0 | | (usft) 0.0 | | sft) .0 | | (°) 9.33 | |
| | | | 0.0 | | 0.0 | | | | 0.00 | |
| Plan Survey Tool Depth From (usft) 1 0.0 | Depth (usf | 1 То | 02/14/21 y (Wellbore) | | Tool Name MWD OWSG MWE | | Remarks | | | |
| Depth From (usft) 1 0.0 | Depth (usf | n To ft) Survey | 02/14/21 y (Wellbore) | | Tool Name MWD | | | | | |
| Depth From (usft) | Depth (usf | n To ft) Survey | 02/14/21 y (Wellbore) 2 (OWB) | | Tool Name MWD | | Remarks | | | |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth Incli | Depth (usf 17,48 | n To ft) Survey | 02/14/21 y (Wellbore) | | Tool Name MWD | | | Turn Rate | TFO (°) | Target |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth Incli (usft) 0.0 | Depth (usf 17,48 nation (°) 0.00 | A To ft) Survey 89.6 Plan #2 Azimuth (°) 0.00 | 02/14/21 y (Wellbore) 2 (OWB) Vertical Depth (usft) 0.0 | +N/-S (usft) 0.0 | Tool Name MWD OWSG MWE +E/-W (usft) 0.0 |) - Standard Dogleg Rate (°/100usft) 0.00 | Remarks Build Rate (°/100usft) 0.00 | Turn Rate (°/100usft) | TFO (°) 0.00 | Target |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth Incli (usft) 0.0 1,500.0 | Depth (usf 17,48 nation (°) 0.00 0.00 | Azimuth (°) 0.00 0.00 | 02/14/21 y (Wellbore) 2 (OWB) Vertical Depth (usft) 0.0 1,500.0 | +N/-S (usft) 0.0 0.0 | Tool Name MWD OWSG MWE +E/-W (usft) 0.0 0.0 |) - Standard Dogleg Rate (°/100usft) 0.00 0.00 | Remarks Build Rate (°/100usft) 0.00 0.00 | Turn Rate (°/100usft)) 0.00 0.00 | TFO (°) 0.00 0.00 | Target |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth Incli (usft) 0.0 1,500.0 2,061.9 | Depth (usf 17,48 nation (°) 0.00 0.00 11.24 | A To ft) Survey 89.6 Plan #2 Azimuth (°) 0.00 0.00 307.27 | 02/14/21 y (Wellbore) 2 (OWB) Vertical Depth (usft) 0.0 1,500.0 2,058.3 | +N/-S (usft) 0.0 0.0 33.3 | Tool Name MWD OWSG MWE +E/-W (usft) 0.0 0.0 -43.7 | D - Standard Dogleg Rate (°/100usft) 0.00 0.00 2.00 | Remarks Build Rate (°/100usft) 0.00 0.00 2.00 | Turn Rate (°/100usft) 0 0.00 0 0.00 0 0.00 | TFO (°) 0.00 0.00 307.27 | Target |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth (usft) Incli (ncli (usft) 0.0 1,500.0 2,061.9 6,836.8 | Depth (usf 17,48 nation (°) 0.00 0.00 11.24 11.24 | Azimuth (°) 0.00 307.27 307.27 | 02/14/21 y (Wellbore) 2 (OWB) Vertical Depth (usft) 0.0 1,500.0 2,058.3 6,741.7 | +N/-S (usft) 0.0 0.0 33.3 596.7 | Tool Name MWD OWSG MWE +E/-W (usft) 0.0 -43.7 -784.3 | D - Standard Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00 | Remarks | Turn Rate (°/100usft)) 0.00 0.00 0.00 0.00 | TFO (°) 0.00 0.00 307.27 0.00 | Target |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth (usft) Incli (ncli (usft) 0.0 1,500.0 2,061.9 6,836.8 7,398.7 | Depth (usf 17,48 nation (°) 0.00 0.00 11.24 11.24 0.00 | Azimuth (°) 0.00 0.00 307.27 307.27 0.00 | 02/14/21 (Wellbore) 2 (OWB) Vertical Depth (usft) 0.0 1,500.0 2,058.3 6,741.7 7,300.0 | +N/-S (usft) 0.0 0.0 33.3 596.7 630.0 | Tool Name MWD OWSG MWE +E/-W (usft) 0.0 -43.7 -784.3 -828.0 | D - Standard Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00 2.00 | Remarks | Turn Rate (°/100usft)) 0.00) 0.00) 0.00) 0.00) 0.00) 0.00 | TFO (°) 0.00 0.00 307.27 0.00 180.00 | Target |
| Depth From (usft) 1 0.0 Plan Sections Measured Depth (usft) Incli (ncli (usft) 0.0 1,500.0 2,061.9 6,836.8 | Depth (usf 17,48 nation (°) 0.00 0.00 11.24 11.24 | Azimuth (°) 0.00 307.27 307.27 | 02/14/21 y (Wellbore) 2 (OWB) Vertical Depth (usft) 0.0 1,500.0 2,058.3 6,741.7 | +N/-S (usft) 0.0 0.0 33.3 596.7 | Tool Name MWD OWSG MWE +E/-W (usft) 0.0 -43.7 -784.3 | D - Standard Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00 | Remarks | Turn Rate (°/100usft)) 0.00) 0.00) 0.00) 0.00) 0.00) 0.00) 0.00 | TFO (°) 0.00 0.00 307.27 0.00 | Target |

02/14/21 04:23:17PM





| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Golden Tee 31 Fed Com #305H |
|-----------|-----------------------------------|------------------------------|----------------------------------|
| Company: | Avant Natural Resources | TVD Reference: | KB @ 3490.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB @ 3490.0usft |
| Site: | (Golden Tee) Sec-31_T-22-S_R-35-E | North Reference: | Grid |
| Well: | Golden Tee 31 Fed Com #305H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #2 | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|--|--|---|---|--|--|--------------------------------------|--------------------------------------|--|
| 0.0 100.0 200.0 300.0 400.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.0 100.0 200.0 300.0 400.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 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 |
| 500.0 600.0 700.0 800.0 900.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 500.0 600.0 700.0 800.0 900.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 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 |
| 1,000.0 1,100.0 1,200.0 1,300.0 1,400.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 1,000.0 1,100.0 1,200.0 1,300.0 1,400.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 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 0.00 |
| 1,500.0 1,600.0 1,700.0 1,800.0 1,824.7 | 0.00 2.00 4.00 6.00 6.49 | 0.00 307.27 307.27 307.27 307.27 | 1,500.0 1,600.0 1,699.8 1,799.5 1,824.0 | 0.0 1.1 4.2 9.5 11.1 | 0.0 -1.4 -5.6 -12.5 -14.6 | 0.0 -1.1 -4.3 -9.6 -11.3 | 0.00 2.00 2.00 2.00 2.00 | 0.00 2.00 2.00 2.00 2.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| Rustler | | | | | | | | | |
| 1,900.0 2,000.0 2,061.9 2,100.0 2,200.0 | 8.00 10.00 11.24 11.24 11.24 | 307.27 307.27 307.27 307.27 307.27 307.27 | 1,898.7 1,997.5 2,058.3 2,095.7 2,193.8 | 16.9 26.4 33.3 37.8 49.6 | -22.2 -34.6 -43.7 -49.6 -65.1 | -17.1 -26.8 -33.8 -38.3 -50.3 | 2.00 2.00 2.00 0.00 0.00 | 2.00 2.00 2.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 2,300.0 2,400.0 2,500.0 2,600.0 2,700.0 | 11.24 11.24 11.24 11.24 11.24 11.24 | 307.27 307.27 307.27 307.27 307.27 307.27 | 2,291.8 2,389.9 2,488.0 2,586.1 2,684.2 | 61.4 73.2 85.0 96.8 108.6 | -80.6 -96.2 -111.7 -127.2 -142.7 | -62.3 -74.3 -86.3 -98.2 -110.2 | 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 0.00 |
| 2,800.0 2,900.0 3,000.0 3,100.0 3,200.0 | 11.24 11.24 11.24 11.24 11.24 | 307.27 307.27 307.27 307.27 307.27 | 2,782.3 2,880.3 2,978.4 3,076.5 3,174.6 | 120.4 132.2 144.0 155.8 167.6 | -158.2 -173.7 -189.2 -204.7 -220.2 | -122.2 -134.2 -146.2 -158.1 -170.1 | 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 0.00 |
| 3,300.0 3,400.0 3,500.0 3,600.0 3,700.0 | 11.24 11.24 11.24 11.24 11.24 | 307.27 307.27 307.27 307.27 307.27 | 3,272.7 3,370.7 3,468.8 3,566.9 3,665.0 | 179.4 191.2 203.0 214.8 226.6 | -235.7 -251.2 -266.8 -282.3 -297.8 | -182.1 -194.1 -206.1 -218.1 -230.0 | 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 0.00 |
| 3,800.0 3,900.0 4,000.0 4,100.0 4,200.0 | 11.24 11.24 11.24 11.24 11.24 | 307.27 307.27 307.27 307.27 307.27 307.27 | 3,763.1 3,861.2 3,959.2 4,057.3 4,155.4 | 238.4 250.2 262.0 273.8 285.6 | -313.3 -328.8 -344.3 -359.8 -375.3 | -242.0 -254.0 -266.0 -278.0 -289.9 | 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 0.00 |
| 4,264.8 | 11.24 | 307.27 | 4,219.0 | 293.2 | -385.4 | -297.7 | 0.00 | 0.00 | 0.00 |
| Salado 4,300.0 4,400.0 4,500.0 4,600.0 | 11.24 11.24 11.24 11.24 | 307.27 307.27 307.27 307.27 | 4,253.5 4,351.6 4,449.7 4,547.7 | 297.4 309.2 321.0 332.8 | -390.8 -406.3 -421.9 -437.4 | -301.9 -313.9 -325.9 -337.9 | 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 |
| 4,700.0 | 11.24 | 307.27 | 4,645.8 | 344.6 | -452.9 | -349.8 | 0.00 | 0.00 | 0.00 |

02/14/21 04:23:17PM





| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Golden Tee 31 Fed Com #305H |
|-----------|-----------------------------------|------------------------------|----------------------------------|
| Company: | Avant Natural Resources | TVD Reference: | KB @ 3490.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB @ 3490.0usft |
| Site: | (Golden Tee) Sec-31_T-22-S_R-35-E | North Reference: | Grid |
| Well: | Golden Tee 31 Fed Com #305H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #2 | | |

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) |
|-----------------------------|--------------------|------------------|-----------------------------|-----------------|------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 4,800.0 | 11.24 | 307.27 | 4,743.9 | 356.4 | -468.4 | -361.8 | 0.00 | 0.00 | 0.00 |
| 4,845.0 | 11.24 | 307.27 | 4,788.0 | 361.7 | -475.4 | -367.2 | 0.00 | 0.00 | 0.00 |
| Capitan Re | | | | | | | | | |
| 4,900.0 | 11.24 | 307.27 | 4,842.0 | 368.2 | -483.9 | -373.8 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 11.24 | 307.27 | 4,940.1 | 380.0 | -499.4 | -385.8 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 11.24 | 307.27 | 5,038.2 | 391.8 | -514.9 | -397.8 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 11.24 | 307.27 | 5,136.2 | 403.6 | -530.4 | -409.8 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 11.24 | 307.27 | 5,234.3 | 415.4 | -545.9 | -421.7 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 11.24 | 307.27 | 5,332.4 | 427.2 | -561.4 | -433.7 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 11.24 | 307.27 | 5,430.5 | 439.0 | -576.9 | -445.7 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 11.24 | 307.27 | 5,528.6 | 450.8 | -592.5 | -457.7 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 11.24 | 307.27 | 5,626.6 | 462.6 | -608.0 | -469.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 11.24 | 307.27 | 5,724.7 | 474.4 | -623.5 | -481.6 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 11.24 | 307.27 | 5,822.8 | 486.2 | -639.0 | -493.6 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 11.24 | 307.27 | 5,920.9 | 498.0 | -654.5 | -505.6 | 0.00 | 0.00 | 0.00 |
| 6,008.3 | 11.24 | 307.27 | 5,929.0 | 499.0 | -655.8 | -506.6 | 0.00 | 0.00 | 0.00 |
| Cherry Car | | 0.0-0- | 0.010.0 | | 070.0 | | | | |
| 6,100.0 | 11.24 | 307.27 | 6,019.0 | 509.8 | -670.0 | -517.6 | 0.00 | 0.00 | 0.00 |
| 6,200.0 6,300.0 | 11.24 11.24 | 307.27 307.27 | 6,117.1 6,215.1 | 521.6 533.4 | -685.5 -701.0 | -529.6 -541.5 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 6,400.0 | 11.24 | 307.27 | 6,313.2 | 535.4 545.2 | -701.0 -716.5 | -541.5 -553.5 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 6,500.0 6.600.0 | 11.24 11.24 | 307.27 307.27 | 6,411.3 | 557.0 | -732.0 -747.6 | -565.5 -577.5 | 0.00 | 0.00 0.00 | 0.00 0.00 |
| 6,700.0 | 11.24 | 307.27 | 6,509.4 6,607.5 | 568.8 580.6 | -747.6 | -577.5 -589.5 | 0.00 0.00 | 0.00 | 0.00 |
| 6,800.0 | 11.24 | 307.27 | 6,705.6 | 592.4 | -778.6 | -601.5 | 0.00 | 0.00 | 0.00 |
| 6,836.8 | 11.24 | 307.27 | 6,741.7 | 596.7 | -784.3 | -605.9 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 9.97 | 307.27 | 6,803.8 | 603.8 | -793.5 | -613.0 | 2.00 | -2.00 | 0.00 |
| 7,000.0 | 9.97 7.97 | 307.27 | 6,903.8 6,902.5 | 613.2 | -793.5 -806.0 | -613.0 | 2.00 | -2.00 | 0.00 |
| 7,100.0 | 5.97 | 307.27 | 7,001.8 | 620.6 | -815.6 | -630.1 | 2.00 | -2.00 | 0.00 |
| 7,200.0 | 3.97 | 307.27 | 7,101.4 | 625.8 | -822.5 | -635.4 | 2.00 | -2.00 | 0.00 |
| 7,300.0 | 1.97 | 307.27 | 7,201.3 | 629.0 | -826.6 | -638.6 | 2.00 | -2.00 | 0.00 |
| 7,346.7 | 1.04 | 307.27 | 7,248.0 | 629.7 | -827.6 | -639.3 | 2.00 | -2.00 | 0.00 |
| Brushy Ca | | | , | | | | | | |
| 7,398.7 | 0.00 | 0.00 | 7,300.0 | 630.0 | -828.0 | -639.6 | 2.00 | -2.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,301.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 0.00 | 0.00 | 7,401.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,501.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 0.00 | 0.00 | 7,601.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,701.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 0.00 | 0.00 | 7,801.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,901.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 8,001.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 0.00 | 0.00 | 8,101.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,201.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,301.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,401.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,501.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,601.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,701.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 8,814.7 | 0.00 | 0.00 | 8,716.0 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| Bone Sprin | | 0.00 | 0 707 0 | 000.0 | 000.0 | 000.0 | 0.00 | 0.00 | 0.00 |
| 8,895.7 | 0.00 | 0.00 | 8,797.0 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| Avalon A 8,900.0 | 0.00 | 0.00 | 8,801.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 0.000.0 | 0.00 | 0.00 | 0,001.0 | 000.0 | 020.0 | 555.0 | 0.00 | 0.00 | 0.00 |

Released to Imaging: 8/19/2021 3:09:20 PM





| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Golden Tee 31 Fed Com #305H |
|-----------|-----------------------------------|------------------------------|----------------------------------|
| Company: | Avant Natural Resources | TVD Reference: | KB @ 3490.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB @ 3490.0usft |
| Site: | (Golden Tee) Sec-31_T-22-S_R-35-E | North Reference: | Grid |
| Well: | Golden Tee 31 Fed Com #305H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #2 | | |

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) |
|-----------------------------|--------------------|------------------|-----------------------------|----------------------|------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 9,000.0 | 0.00 | 0.00 | 8,901.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 9,001.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 9,150.7 | 0.00 | 0.00 | 9,052.0 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| Avalon B | | | | | | | | | |
| 9,200.0 | 0.00 | 0.00 | 9,101.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,201.3 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 9,405.7 | 0.00 | 0.00 | 9,307.0 | 630.0 | -828.0 | -639.6 | 0.00 | 0.00 | 0.00 |
| 9,450.0 | 4.43 | 179.49 | 9,351.2 | 628.3 | -828.0 | -637.9 | 10.00 | 10.00 | 0.00 |
| 9,500.0 | 9.43 | 179.49 | 9,400.8 | 622.3 | -827.9 | -631.9 | 10.00 | 10.00 | 0.00 |
| 9,550.0 | 14.43 | 179.49 | 9,449.7 | 611.9 | -827.8 | -621.6 | 10.00 | 10.00 | 0.00 |
| 9,600.0 | 19.43 | 179.49 | 9,497.6 | 597.4 | -827.7 | -607.0 | 10.00 | 10.00 | 0.00 |
| 9,650.0 | 24.43 | 179.49 | 9,543.9 | 578.7 | -827.5 | -588.4 | 10.00 | 10.00 | 0.00 |
| 9,700.0 | 29.43 | 179.49 | 9,588.5 | 556.1 | -827.3 | -565.7 | 10.00 | 10.00 | 0.00 |
| 9,750.0 9,800.0 | 34.43 39.43 | 179.49 179.49 | 9,630.9 9,670.9 | 529.7 499.6 | -827.1 -826.8 | -539.3 -509.3 | 10.00 10.00 | 10.00 10.00 | 0.00 0.00 |
| 9,850.0 | 44.43 | 179.49 | 9,708.1 | 466.2 | -826.5 | -309.3 | 10.00 | 10.00 | 0.00 |
| | | | | | | | | | |
| 9,883.1 1st Bone S | 47.73 | 179.49 | 9,731.0 | 442.4 | -826.3 | -452.0 | 10.00 | 10.00 | 0.00 |
| 9,900.0 | 49.43 | 179.49 | 9,742.2 | 429.7 | -826.2 | -439.4 | 10.00 | 10.00 | 0.00 |
| 9,950.0 | 54.43 | 179.49 | 9,773.0 | 390.4 | -825.9 | -400.0 | 10.00 | 10.00 | 0.00 |
| 10,000.0 | 59.43 | 179.49 | 9,800.3 | 348.5 | -825.5 | -358.1 | 10.00 | 10.00 | 0.00 |
| 10,050.0 | 64.43 | 179.49 | 9,823.8 | 304.4 | -825.1 | -314.0 | 10.00 | 10.00 | 0.00 |
| 10,100.0 | 69.43 | 179.49 | 9,843.4 | 258.4 | -824.7 | -268.0 | 10.00 | 10.00 | 0.00 |
| 10,150.0 | 74.43 | 179.49 | 9,858.9 | 210.9 | -824.3 | -220.5 | 10.00 | 10.00 | 0.00 |
| 10,200.0 | 79.43 | 179.49 | 9,870.2 | 162.2 | -823.8 | -171.8 | 10.00 | 10.00 | 0.00 |
| 10,250.0 10,300.0 | 84.43 89.43 | 179.49 179.49 | 9,877.2 9,879.9 | 112.7 62.8 | -823.4 -823.0 | -122.3 -72.4 | 10.00 10.00 | 10.00 10.00 | 0.00 0.00 |
| 10,305.7 | 90.00 | 179.49 | 9,880.0 | 57.1 | -822.9 | -66.7 | 10.00 | 10.00 | 0.00 |
| 10,303.7 | 90.00 | 179.49 | 9,880.0 | -37.2 | -822.1 | 27.6 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 179.49 | 9,880.0 | -137.2 | -821.2 | 127.6 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 179.49 | 9,880.0 | -237.2 | -820.3 | 227.6 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 179.49 | 9,880.0 | -337.2 | -819.4 | 327.6 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 179.49 | 9,880.0 | -437.2 | -818.5 | 427.6 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 179.49 | 9,880.0 | -537.2 | -817.6 | 527.6 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 179.49 | 9,880.0 | -637.2 | -816.7 | 627.6 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 179.49 | 9,880.0 | -737.2 | -815.8 | 727.6 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 179.49 | 9,880.0 | -837.2 | -815.0 | 827.6 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 179.49 | 9,880.0 | -937.1 | -814.1 -813.2 | 927.6 | 0.00 | 0.00 | 0.00 |
| 11,400.0 11,500.0 | 90.00 90.00 | 179.49 179.49 | 9,880.0 9,880.0 | -1,037.1 -1,137.1 | -813.2 -812.3 | 1,027.6 1,127.6 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 11,600.0 | 90.00 | 179.49 | 9,880.0 9,880.0 | -1,137.1 | -811.4 | 1,127.6 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 179.49 | 9,880.0 | -1,337.1 | -810.5 | 1,327.6 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 179.49 | 9,880.0 | -1,437.1 | -809.6 | 1,427.6 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 179.49 | 9,880.0 | -1,537.1 | -808.7 | 1,527.6 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 179.49 | 9,880.0 | -1,637.1 | -807.8 | 1,627.6 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 179.49 | 9,880.0 | -1,737.1 | -807.0 | 1,727.6 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 179.49 | 9,880.0 | -1,837.1 | -806.1 | 1,827.6 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 179.49 | 9,880.0 | -1,937.1 | -805.2 | 1,927.6 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 179.49 | 9,880.0 | -2,037.1 | -804.3 | 2,027.6 | 0.00 | 0.00 | 0.00 |
| 12,500.0 12,600.0 | 90.00 90.00 | 179.49 179.49 | 9,880.0 9,880.0 | -2,137.1 -2,237.1 | -803.4 -802.5 | 2,127.6 2,227.6 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 12,600.0 | 90.00 90.00 | 179.49 | 9,880.0 9,880.0 | -2,237.1 -2,337.1 | -802.5 -801.6 | 2,227.6 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 12,800.0 | 90.00 | 179.49 | 9,880.0 | -2,437.1 | -800.7 | 2,427.6 | 0.00 | 0.00 | 0.00 |

02/14/21 04:23:17PM





Page 20 of 38

| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Golden Tee 31 Fed Com #305H |
|-----------|-----------------------------------|------------------------------|----------------------------------|
| Company: | Avant Natural Resources | TVD Reference: | KB @ 3490.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB @ 3490.0usft |
| Site: | (Golden Tee) Sec-31_T-22-S_R-35-E | North Reference: | Grid |
| Well: | Golden Tee 31 Fed Com #305H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #2 | | |

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) |
|--|---|--|--|--|--|---|--------------------------------------|--------------------------------------|--------------------------------------|
| 12,900.0 13,000.0 13,100.0 13,200.0 | 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 | -2,537.1 -2,637.1 -2,737.1 -2,837.1 | -799.9 -799.0 -798.1 -797.2 | 2,527.6 2,627.6 2,727.6 2,827.6 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| 13,300.0 13,400.0 13,500.0 13,600.0 13,700.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -2,937.1 -3,037.1 -3,137.1 -3,237.1 -3,337.1 | -796.3 -795.4 -794.5 -793.6 -792.7 | 2,927.6 3,027.6 3,127.6 3,227.6 3,327.6 | 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 |
| 13,800.0 13,900.0 14,000.0 14,100.0 14,200.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -3,437.1 -3,537.0 -3,637.0 -3,737.0 -3,837.0 | -791.9 -791.0 -790.1 -789.2 -788.3 | 3,427.6 3,527.6 3,627.6 3,727.6 3,827.6 | 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 |
| 14,300.0 14,400.0 14,500.0 14,600.0 14,700.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -3,937.0 -4,037.0 -4,137.0 -4,237.0 -4,337.0 | -787.4 -786.5 -785.6 -784.7 -783.9 | 3,927.6 4,027.6 4,127.6 4,227.6 4,327.6 | 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 |
| 14,800.0 14,900.0 15,000.0 15,100.0 15,200.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -4,437.0 -4,537.0 -4,637.0 -4,737.0 -4,837.0 | -783.0 -782.1 -781.2 -780.3 -779.4 | 4,427.6 4,527.6 4,627.6 4,727.6 4,827.6 | 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 |
| 15,300.0 15,400.0 15,500.0 15,600.0 15,700.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -4,937.0 -5,037.0 -5,137.0 -5,237.0 -5,337.0 | -778.5 -777.6 -776.7 -775.9 -775.0 | 4,927.6 5,027.5 5,127.5 5,227.5 5,327.5 | 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 |
| 15,800.0 15,900.0 16,000.0 16,100.0 16,200.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -5,437.0 -5,537.0 -5,637.0 -5,737.0 -5,837.0 | -774.1 -773.2 -772.3 -771.4 -770.5 | 5,427.5 5,527.5 5,627.5 5,727.5 5,827.5 | 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 |
| 16,300.0 16,400.0 16,500.0 16,600.0 16,700.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -5,937.0 -6,036.9 -6,136.9 -6,236.9 -6,336.9 | -769.6 -768.7 -767.9 -767.0 -766.1 | 5,927.5 6,027.5 6,127.5 6,227.5 6,327.5 | 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 |
| 16,800.0 16,900.0 17,000.0 17,100.0 17,200.0 | 90.00 90.00 90.00 90.00 90.00 | 179.49 179.49 179.49 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 9,880.0 | -6,436.9 -6,536.9 -6,636.9 -6,736.9 -6,836.9 | -765.2 -764.3 -763.4 -762.5 -761.6 | 6,427.5 6,527.5 6,627.5 6,727.5 6,827.5 | 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 |
| 17,300.0 17,400.0 17,489.6 | 90.00 90.00 90.00 | 179.49 179.49 179.49 | 9,880.0 9,880.0 9,880.0 | -6,936.9 -7,036.9 -7,126.5 | -760.7 -759.9 -759.1 | 6,927.5 7,027.5 7,117.1 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |







| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Golden Tee 31 Fed Com #305H |
|-----------|-----------------------------------|------------------------------|----------------------------------|
| Company: | Avant Natural Resources | TVD Reference: | KB @ 3490.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB @ 3490.0usft |
| Site: | (Golden Tee) Sec-31_T-22-S_R-35-E | North Reference: | Grid |
| Well: | Golden Tee 31 Fed Com #305H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #2 | | |

Design Targets

Target Name - hit/miss target Dip Angle Dip Dir. TVD +N/-S +E/-W Northing Easting - Shape (usft) (usft) (usft) (usft) (usft) (°) (°) Longitude Latitude FTP (Golden Tee 31 F 0.00 0.00 9,880.0 591.9 -829.7 494,187.86 828,851.02 32° 21' 18.562 N 103° 24' 8.083 W - plan misses target center by 211.0usft at 9878.7usft MD (9728.1 TVD, 445.6 N, -826.4 E) - Point PBHL (Golden Tee 31 0.00 179.48 9,880.0 -7,126.5 -759.1 486,469.48 828,921.70 32° 20' 2.186 N 103° 24' 8.042 W plan hits target center Rectangle (sides W100.0 H7,720.0 D30.0) LTP (Golden Tee 31 F -759.1 486,469.48 828,921.70 32° 20' 2.186 N 103° 24' 8.042 W 0.00 0.00 9,880.0 -7,126.5 plan hits target center Point

Formations

| Measur Depti (usft) | n Depth | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------------|--------------|--------------------|-----------|------------|-------------------------|
| 1,82 | 24.7 1,824.0 | Rustler | | | |
| 4,26 | 64.8 4,219.0 |) Salado | | | |
| 4,84 | 5.0 4,788.0 |) Capitan Reef | | | |
| 6,00 | 98.3 5,929.0 |) Cherry Canyon | | | |
| 7,34 | 6.7 7,248.0 |) Brushy Canyon | | | |
| 8,81 | 4.7 8,716.0 |) Bone Spring Lime | | | |
| 8,89 | 95.7 8,797.0 |) Avalon A | | | |
| 9,15 | 50.7 9,052.0 |) Avalon B | | | |
| 9,88 | 3.1 9,731.0 |) 1st Bone Spring | | | |

Plan Annotations

| Measured | Vertical | Local Coordinates | | |
|-----------------|-----------------|-------------------|-----------------|---------------------------------|
| Depth (usft) | Depth (usft) | +N/-S (usft) | +E/-W (usft) | Comment |
| 1,500.0 | 1,500.0 | 0.0 | 0.0 | NUDGE - Build 2.00 |
| 2,061.9 | 2,058.3 | 33.3 | -43.7 | HOLD - 4774.9 at 2061.9 MD |
| 6,836.8 | 6,741.7 | 596.7 | -784.3 | DROP2.00 |
| 7,398.7 | 7,300.0 | 630.0 | -828.0 | HOLD - 2007.0 at 7398.7 MD |
| 9,405.7 | 9,307.0 | 630.0 | -828.0 | KOP - DLS 10.00 TFO 179.49 |
| 10,305.7 | 9,880.0 | 57.1 | -822.9 | EOC - 7183.8 hold at 10305.7 MD |
| 17,489.6 | 9,880.0 | -7,126.5 | -759.1 | TD at 17489.6 |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | | |
|----------------------------|---------------------------------------|--|
| LEASE NO.: | NMNM128836 | |
| LOCATION: | Section 31, T.22 S., R.35 E., NMPM | |
| COUNTY: | Lea County, New Mexico | |
| | | |
| WELL NAME & NO.: | Golden Tee 31 Fed Com 304H | |
| SURFACE HOLE FOOTAGE: | 550'/N & 430'/E | |
| BOTTOM HOLE FOOTAGE | 2540'/N & 2178'/E | |
| | | |
| WELL NAME & NO.: | Golden Tee 31 Fed Com 305H | |
| SURFACE HOLE FOOTAGE: | 700'/N & 430'/E | |
| BOTTOM HOLE FOOTAGE | 2540'/N & 1254'/E | |
| | | |
| WELL NAME & NO.: | Golden Tee 31 Fed Com 306H | |
| SURFACE HOLE FOOTAGE: | 850'/N & 430'/E | |
| BOTTOM HOLE FOOTAGE | 2540'/N & 330'/E | |
| | | |
| WELL NAME & NO.: | Golden Tee 31 Fed Com 504H | |
| SURFACE HOLE FOOTAGE: | 550'/N & 400'/E | |
| BOTTOM HOLE FOOTAGE | 2540'/N & 2178'/E | |
| | | |
| WELL NAME & NO.: | Golden Tee 31 Fed Com 505H | |
| SURFACE HOLE FOOTAGE: | 700'/N & 400'/E | |
| BOTTOM HOLE FOOTAGE | 2540'/N & 1254'/E | |
| | · · · · · · · · · · · · · · · · · · · | |
| WELL NAME & NO.: | Golden Tee 31 Fed Com 506H | |
| SURFACE HOLE FOOTAGE: | 850'/N & 400'/E | |
| BOTTOM HOLE FOOTAGE | 2540'/N & 330'/E | |
| | | |
| | COA | |
| | | |

| H2S | C Yes | 🖸 No | |
|----------------------|----------------|----------------|------------------|
| Potash | 🖸 None | C Secretary | C R-111-P |
| Cave/Karst Potential | 🖸 Low | C Medium | 🖸 High |
| Cave/Karst Potential | Critical | | |
| Variance | C None | 🖸 Flex Hose | C Other |
| Wellhead | Conventional | 🖸 Multibowl | C Both |
| Other | □4 String Area | 🗹 Capitan Reef | □ WIPP |
| Other | Fluid Filled | Cement Squeeze | Pilot Hole |
| Special Requirements | Water Disposal | COM | 🗖 Unit |

Page 1 of 9

Released to Imaging: 8/19/2021 3:09:20 PM

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1960 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to capitan reef. Cement excess is less than 25%, more cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to capitan reef.
 Cement excess is less than 25%, more cement might be required.
- In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor th sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

■ H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

1

•

| | The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards | | | |
|---|--|--|--|--|
| | Metallurgy: All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service. | | | |
| Communication: Communication will be via cell phones and land lines where available. | | | | |
| Company Personnel to be Notified | | | | |
| John Harper, Vice President of Geosciences | Office: (720) 746-5045 | | | |
| | Mobile: (678) 988-6644 | | | |
| Cory Nunez, Engineer | Mobile: (432) 448-3293 | | | |
| Local & County Agencies | | | | |
| Monument Fire Department | 911 or (575) 393-4339 | | | |
| Hobbs Fire Marshal | (575) 391-8185 | | | |
| Lea County Sheriff (Lovington) | 911 or (575) 396-3611 | | | |
| Lea County Emergency Management (Lovington) | | | | |
| | (575) 396-8602 | | | |
| Lea Regional Medical Center Hospital (Hobbs) | (575) 396-8602 (575) 492-5000 | | | |
| Lea Regional Medical Center Hospital (Hobbs) | | | | |
| Lea Regional Medical Center Hospital (Hobbs) <u>State Agencies</u> | | | | |
| | | | | |
| <u>State Agencies</u> | (575) 492-5000 | | | |
| <u>State Agencies</u> NM State Police (Hobbs) | (575) 492-5000 (575) 392-5588 | | | |

| Federal Agencies | |
|----------------------------------|----------------|
| BLM Carlsbad Field Office | (575) 234-5972 |
| BLM Hobbs Field Station | (575) 393-3612 |
| National Response Center | (800) 424-8802 |
| | |
| US EPA Region 6 (Dallas) | (800) 887-6063 |
| | (214) 665-6444 |
| | |
| <u>Veterinarians</u> | |
| Dal Paso Animal Hospital (Hobbs) | (575) 397-2286 |
| | |

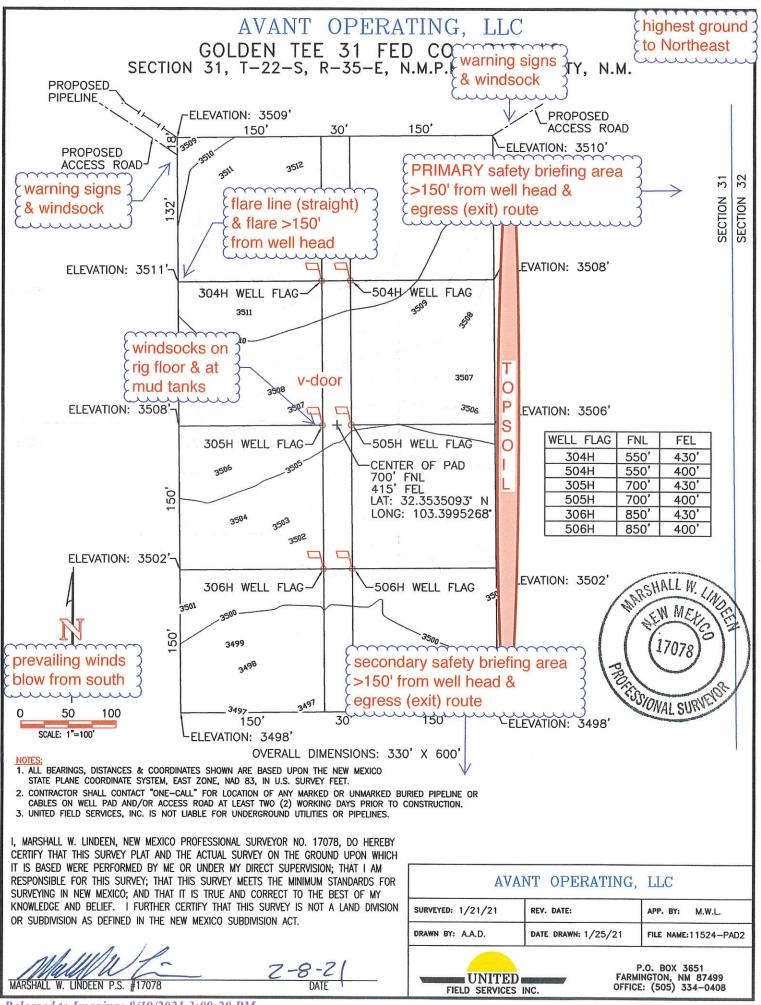
| Hobbs Animal Clinic | & Pet Care (| (Hobbs) | (575) | 392-5563 |
|----------------------|----------------|------------------|-------|----------|
| Great Plains Veterin | ary Clinic & I | Hospital (Hobbs) | (575) | 392-5513 |

Residents within 2 miles

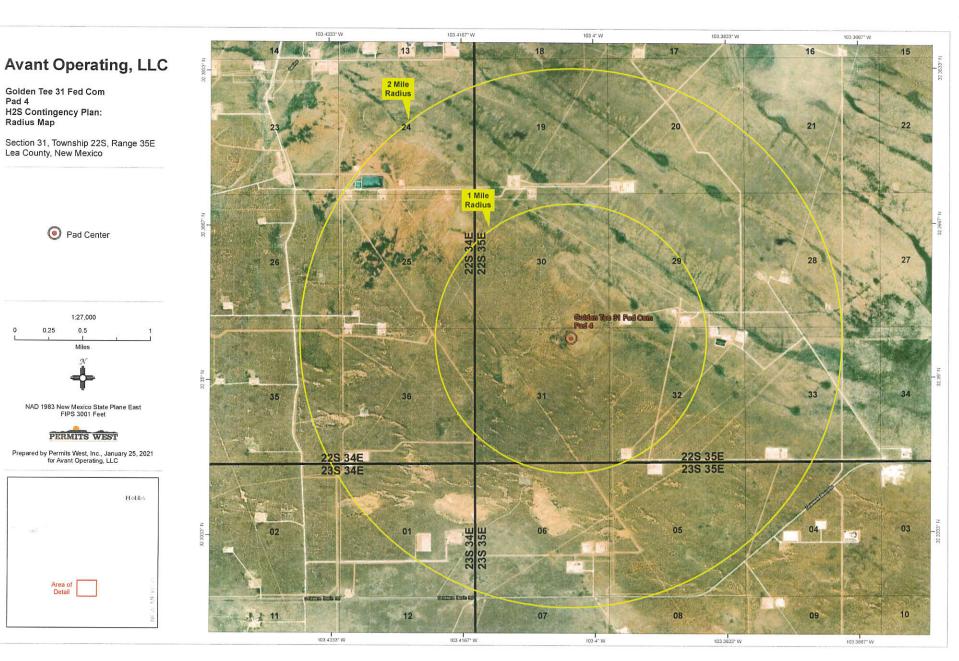
None

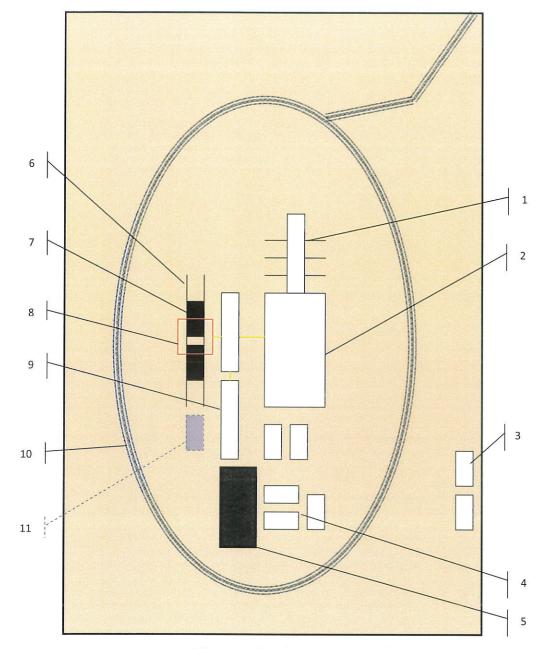
Air EvacuationMed Flight Air Ambulance (Albuquerque)(800) 842-4431Lifeguard (Albuquerque)(888) 866-7256

Received by OCD: 8/18/2021 3:35:14 PM



Released to Imaging: 8/19/2021 3:09:20 PM





Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available



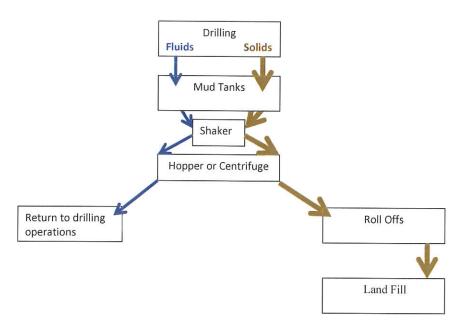


Above: Centrifugal Closed Loop System



Closed Loop Drilling System: Mud tanks to right (1) Hopper in air to settle out solids (2) Water return pipe (3) Shaker between hopper and mud tanks (4) Roll offs on skids (5)





Photos Courtesy of Gandy Corporation Oil Field Service



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

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

CONDITIONS

| Operator: | OGRID: |
|----------------------|----------------|
| Avant Operating, LLC | 330396 |
| 1515 Wynkoop Street | Action Number: |
| Denver, CO 80202 | 43094 |
| | Action Type: |
| | |

CONDITIONS

| Created | Condition | Condition |
|---------|--|-----------|
| Ву | | Date |
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 8/19/2021 |
| 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 | 8/19/2021 |
| | 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 | 8/19/2021 |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing | 8/19/2021 |

[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Action 43094