

Form 3160-3  
(June 2015)

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

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. <b>NMNM0245247</b>
2. Name of Operator <b>AVANT OPERATING LLC</b>		6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No. <b>DAYTONA 29 FED COM</b> <b>603H</b>
3a. Address <b>1515 WYNKOOP STREET, SUITE 700, DENVER, CO 80202</b>	3b. Phone No. (include area code) <b>(720) 746-5045</b>	9. API Well No.  10. Field and Pool, or Exploratory <b>E-K/BONE SPRING</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NENE / 779 FNL / 1007 FEL / LAT 32.723831 / LONG -103.5771816</b> At proposed prod. zone <b>SWSE / 100 FSL / 1560 FEL / LAT 32.6972175 / LONG -103.5789134</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>SEC 29/T18S/R34E/NMP</b>
14. Distance in miles and direction from nearest town or post office* <b>14 miles</b>		12. County or Parish <b>LEA</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>779 feet</b>		13. State <b>NM</b>
16. No of acres in lease  17. Spacing Unit dedicated to this well <b>640.0</b>		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>20 feet</b>		20. BLM/BIA Bond No. in file <b>FED:</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4048 feet</b>	22. Approximate date work will start* <b>10/01/2023</b>	23. Estimated duration <b>60 days</b>
24. Attachments		

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

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature (Electronic Submission)	Name (Printed/Typed) <b>BRIAN WOOD / Ph: (720) 746-5045</b>	Date <b>04/27/2023</b>
Title <b>Permitting Agent</b>		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) <b>CODY LAYTON / Ph: (575) 234-5959</b>	Date <b>03/22/2024</b>
Title <b>Assistant Field Manager Lands &amp; Minerals</b> Office <b>Carlsbad Field Office</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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



(Continued on page 2)

\*(Instructions on page 2)

**DISTRICT I**  
1625 N. French Dr., Hobbs, N.M. 88240  
Phone: (575) 393-8161 Fax: (575) 393-0720

**DISTRICT II**  
811 S. First St., Artesia, N.M. 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-8178 Fax: (505) 334-8170

**DISTRICT IV**  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505  
Phone: (505) 476-3460 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

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

Submit one copy to appropriate  
District Office

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 21650	<sup>3</sup> Pool Name E-K; BONE SPRING
<sup>4</sup> Property Code 335719	<sup>5</sup> Property Name DAYTONA 29 FED COM		<sup>6</sup> Well Number 603H
<sup>7</sup> OGRD No. 330396	<sup>8</sup> Operator Name AVANT OPERATING, LLC		<sup>9</sup> Elevation 404.8

#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	29	18 S	34 E		779	NORTH	1007	EAST	LEA

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	32	18 S	34 E		100	SOUTH	1560	EAST	LEA

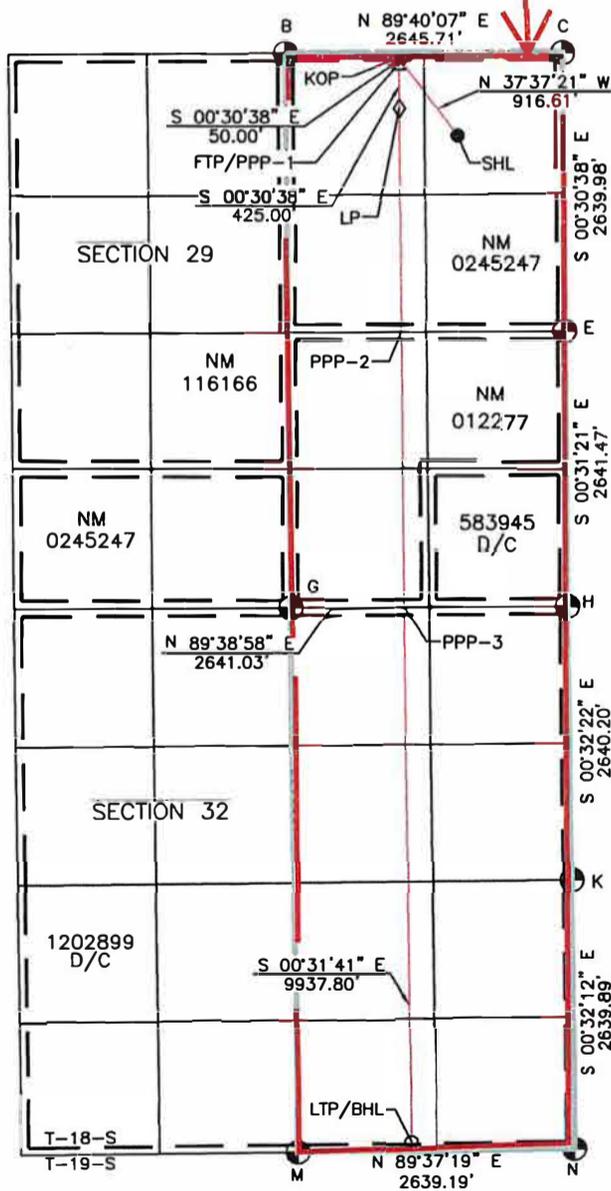
<sup>12</sup> Dedicated Acres SECTION 29: NE/4, SE/4; 320 Ac. SECTION 32: NE/4, SE/4; 320 Ac. TOTAL: 640 Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code C	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

#### <sup>16</sup> Legend:

- = SURFACE LOCATION (SHL)
- = LTP/BHL
- △ = FTP/PPP-1
- = KICK OFF POINT (KOP)
- ◇ = LANDING POINT (LP)
- ⊙ = FOUND 1913 USGLO BRASS CAP

Horizontal Spacing Unit



#### SURFACE LOCATION

NAD 83 NME, NMSPC ZONE 3001  
Y = 627890.77 N  
X = 773878.24 E  
LAT: 32.7238310° N  
LONG: 103.5771816° W

#### KICK OFF POINT

NAD 83 NME, NMSPC ZONE 3001  
50' FNL, 1560' FEL  
SEC. 29, T18S, R34E  
Y = 628616.77 N  
X = 773318.69 E  
LAT: 32.7258373° N  
LONG: 103.5789841° W

#### FIRST TAKE POINT/PPP-1

NAD 83 NME, NMSPC ZONE 3001  
100' FNL, 1560' FEL  
SEC. 29, T18S, R34E  
Y = 628566.77 N  
X = 773319.13 E  
LAT: 32.7256999° N  
LONG: 103.5789838° W

#### LANDING POINT

NAD 83 NME, NMSPC ZONE 3001  
525' FNL, 1560' FEL  
SEC. 29, T18S, R34E  
Y = 628141.79 N  
X = 773322.92 E  
LAT: 32.7245318° N  
LONG: 103.5789814° W

#### PPP-2

NAD 83 NME, NMSPC ZONE 3001  
2640' FSL, 1559' FEL  
SEC. 29, T18S, R34E  
Y = 626025.16 N  
X = 773342.43 E  
LAT: 32.7187139° N  
LONG: 103.5789669° W

#### PPP-3

NAD 83 NME, NMSPC ZONE 3001  
0' FNL, 1559' FEL  
SEC. 32, T18S, R34E  
Y = 623385.02 N  
X = 773366.77 E  
LAT: 32.7114572° N  
LONG: 103.5789489° W

#### LAST TAKE POINT/BOTTOM HOLE LOCATION

NAD 83 NME, NMSPC ZONE 3001  
Y = 618204.40 N  
X = 773414.52 E  
LAT: 32.6972175° N  
LONG: 103.5789134° W

#### <sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Brian Wood*  
3-30-23  
Signature Date  
Printed Name  
brian@permitswest.com  
E-mail Address  
505 466-8120

#### <sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

10/17/22  
Date of Survey  
Plat Revised: 3/1/23  
Signature and Seal of Professional Surveyor  
*MARSHALL W. LINDEN*  
NEW MEXICO  
17078  
3-21-23  
PROFESSIONAL SURVEYOR  
Certificate Number

#### CORNER COORDINATES TABLE

NAD 83 NME, NMSPC ZONE 3001

B - Y = 628660.49 N, X = 772232.56 E
C - Y = 628675.79 N, X = 774878.22 E
E - Y = 626035.92 N, X = 774901.75 E
G - Y = 623378.40 N, X = 772284.85 E
H - Y = 623394.56 N, X = 774925.84 E
K - Y = 620754.47 N, X = 774950.70 E
M - Y = 618097.29 N, X = 772336.30 E
N - Y = 618114.70 N, X = 774975.43 E

#### CORNER COORDINATES TABLE

NAD 83 NME, NMSPC ZONE 3001

B - LAT.=32.7259787° N, LONG.=103.5825147° W
C - LAT.=32.7259689° N, LONG.=103.5739119° W
E - LAT.=32.7187129° N, LONG.=103.5738969° W
G - LAT.=32.7114601° N, LONG.=103.5824663° W
H - LAT.=32.7114528° N, LONG.=103.5738801° W
K - LAT.=32.7041961° N, LONG.=103.5738607° W
M - LAT.=32.6969441° N, LONG.=103.5824207° W
N - LAT.=32.6969404° N, LONG.=103.5738418° W

**State of New Mexico**  
**Energy, Minerals and Natural Resources Department**

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

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description Effective May 25, 2021

**I. Operator:** Permian Resources Operating, LLC      **OGRID:** 372165      **Date:** 4/1/2024

**II. Type:**  Original    Amendment due to  19.15.27.9.D(6)(a) NMAC    19.15.27.9.D(6)(b) NMAC    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	API	ULSTR	Footages	Anticipated Oil	Anticipated Gas	Anticipated Prod Water
Moran 9 Fed Com 501H		N-9-T21S-R32E	284' FSL – 1319' FWL	1700 BOPD	3500 MCFD	16000 BWPD
Moran 9 Fed Com 502H		N-9-T21S-R32E	271' FSL – 1352' FWL	1700 BOPD	3500 MCFD	16000 BWPD
Moran 9 Fed Com 503H		N-9-T21S-R32E	258' FSL – 1385' FWL	1700 BOPD	3500 MCFD	16000 BWPD
Moran 9 Fed Com 504H		O-9-T21S-R32E	450' FSL – 1369' FEL	1700 BOPD	3500 MCFD	16000 BWPD
Moran 9 Fed Com 505H		O-9-T21S-R32E	450' FSL – 1334' FEL	1700 BOPD	3500 MCFD	16000 BWPD
Moran 9 Fed Com 506H		P-9-T21S-R32E	450' FSL – 1299' FEL	1700 BOPD	3500 MCFD	16000 BWPD
Moran 9 Fed Com 601H		N-9-T21S-R32E	424' FSL – 1373' FWL	1600 BOPD	2500 MCFD	8000 BWPD
Moran 9 Fed Com 602H		N-9-T21S-R32E	411' FSL – 1406' FWL	1600 BOPD	2500 MCFD	8000 BWPD
Moran 9 Fed Com 603H		N-9-T21S-R32E	398' FSL – 1438' FWL	1600 BOPD	2500 MCFD	8000 BWPD
Moran 9 Fed Com 604H		O-9-T21S-R32E	600' FSL – 1369' FEL	1600 BOPD	2500 MCFD	8000 BWPD
Moran 9 Fed Com 605H		O-9-T21S-R32E	600' FSL – 1334' FEL	1600 BOPD	2500 MCFD	8000 BWPD
Moran 9 Fed Com 606H		P-9-T21S-R32E	600' FSL – 1299' FEL	1600 BOPD	2500 MCFD	8000 BWPD

**IV. Central Delivery Point Name:** Moran 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 recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Moran 9 Fed Com 501H		6/21/2024	7/8/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 502H		7/23/2024	8/10/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 503H		8/10/2024	8/27/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 504H		7/8/2024	7/26/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 505H		7/26/2024	8/12/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 506H		8/12/2024	8/30/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 601H		8/30/2024	9/16/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 602H		6/1/2024	6/18/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 603H		6/18/2024	7/6/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 604H		7/6/2024	7/23/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 605H		8/10/2024	8/27/2024	10/4/2024	11/14/2024	11/14/2024
Moran 9 Fed Com 606H		8/30/2024	9/16/2024	10/4/2024	11/14/2024	11/14/2024

**VI. Separation Equipment:**  Attach a complete description of how Operator will seize separation equipment to optimize gas capture.

**VII. Operations Practices:**  Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:**  Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

### **Section 3 – Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 – Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
  - (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
  - (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, not 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 and update for each Natural Gas Management Plan until the Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
  - (c) OCD may deny or conditionally approve and 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.

**I certify, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.**

Signature:
Printed Name:
Title:
E-mail Address:
Date:
Phone:

**OIL CONSERVATION DIVISION**  
**(Only applicable when submitted as a standalone form)**

Approved By:
Title:
Approval Date:
Conditions of Approval:

Permian Resources Operating, LLC (372165)

## Natural Gas Management Plan Descriptions

### VI. Separation Equipment:

Permian Resources Operating, LLC (Permian) utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

### VII. Operational Practices:

#### *Drilling*

During Permian's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

#### *Flowback*

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas through a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

#### *Production*

Per 19.15.27.8.D, Permian's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

#### *Performance Standards*

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's flare stacks, both currently installed and for future installation, are:

- 1) Appropriately sized and designed to ensure proper combustion efficiency.
- 2) Equipped with an automatic ignitor or continuous pilot.
- 3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

## Permian Resources Operating, LLC (372165)

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

*Measurement or estimation*

Permian measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

**VIII. Best Management Practices:**

Permian Resources utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary

## **Enhanced Natural Gas Management Plan**

### **Operator's Plan to Manage Production in Response to Increased Line Pressure**

Permian Resources Operating, LLC (Permian) anticipates that its existing wells connected to the same portion of the natural gas gathering system will continue to meet anticipated increases in line pressure caused by the new wells. Permian will actively monitor line pressure throughout the field and will make necessary adjustments to existing production separators' pressures to send gas to sales. Permian also plans to implement automated alarms on all flare meters to alert of flaring events as they occur. The alarms will send notifications to field operations and engineering staff via text message and email at every occurrence of flaring. In addition, Permian plans to implement automated alarms on all flare meters to alert of any continuous flaring event that has continued for at least 4 hours. The alarms will send notifications to field operations and engineering management. Permian personnel will promptly respond to these alarms, communicate with midstream partners, and take the appropriate action to reduce flaring caused by high line pressure from new well production.



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

# Drilling Plan Data Report

04/02/2024

APD ID: 10400091863

Submission Date: 04/27/2023

Highlighted data reflects the most recent changes

Operator Name: AVANT OPERATING LLC

Well Name: DAYTONA 29 FED COM

Well Number: 603H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13132352	QUATERNARY	4048	0	0	OTHER : Caliche	USEABLE WATER	N
13132353	RUSTLER ANHYDRITE	2362	1686	1686	ANHYDRITE	NONE	N
13132354	YATES	888	3160	3166	DOLOMITE	NATURAL GAS, OIL	N
13132355	SEVEN RIVERS	400	3648	3658	LIMESTONE	NATURAL GAS, OIL	N
13132356	QUEEN	-314	4362	4379	SANDSTONE	NATURAL GAS, OIL	N
13132357	CHERRY CANYON	-1374	5422	5449	SANDSTONE	NONE	N
13132358	BRUSHY CANYON	-2044	6092	6125	SANDSTONE	NATURAL GAS, OIL	N
13132359	BONE SPRING LIME	-3273	7321	7365	LIMESTONE	NATURAL GAS, OIL	N
13132360	AVALON SAND	-3530	7578	7624	SHALE	NONE	N
13132361	BONE SPRING 1ST	-4644	8692	8748	SANDSTONE	NATURAL GAS, OIL	N
13132350	BONE SPRING 2ND	-5238	9286	9345	SANDSTONE	NATURAL GAS, OIL	N
13132351	BONE SPRING 3RD	-5997	10045	10200	SANDSTONE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 15000

**Equipment:** A minimum 5M system will be used. The minimum blowout preventer equipment (BOPE) shown in the 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 top and drill pipe rams on bottom. All BOPE will be tested in accordance with Onshore Oil & Gas Order 2.

Requesting Variance? YES

**Operator Name:** AVANT OPERATING LLC

**Well Name:** DAYTONA 29 FED COM

**Well Number:** 603H

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

**Testing Procedure:** 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 always be kept on location. 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 always be in the drill string. Full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will always be on the rig floor. 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:**

Daytona\_603H\_Choke\_20230425093636.pdf

**BOP Diagram Attachment:**

Daytona\_603H\_BOP\_20230425093645.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	1711	0	1711	4048	2337	1711	J-55	40.5	LT&C	1.125	1.125	DRY	1.6	DRY	1.6
2	INTERMEDIATE	9.875	9.625	NEW	API	N	0	4000	0	3987	4048	61	4000	J-55	40	LT&C	1.125	1.125	DRY	1.6	DRY	1.6
3	INTERMEDIATE	12.25	9.625	NEW	API	N	4000	5124	3987	5100	61	-1052	1124	HCL-80	40	LT&C	1.125	1.125	DRY	1.6	DRY	1.6
4	PRODUCTION	8.75	5.5	NEW	NON API	N	0	20360	0	10100	4048	-6052	20360	OTHER	20	OTHER - GBCD	1.125	1.125	DRY	1.6	DRY	1.6

**Casing Attachments**

**Operator Name:** AVANT OPERATING LLC

**Well Name:** DAYTONA 29 FED COM

**Well Number:** 603H

**Casing Attachments**

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**Casing ID:** 1                    **String**      SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Daytona\_603H\_Casing\_Design\_Assumptions\_20230425093719.pdf

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**Casing ID:** 2                    **String**      INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Daytona\_603H\_Casing\_Design\_Assumptions\_20230425093806.pdf

---

**Casing ID:** 3                    **String**      INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Daytona\_603H\_Casing\_Design\_Assumptions\_20230425093831.pdf

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**Operator Name:** AVANT OPERATING LLC

**Well Name:** DAYTONA 29 FED COM

**Well Number:** 603H

**Casing Attachments**

**Casing ID:** 4      **String**      PRODUCTION

**Inspection Document:**

**Spec Document:**

5.5in\_Casing\_Spec\_20230425093858.pdf

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Daytona\_603H\_Casing\_Design\_Assumptions\_20230425093908.pdf

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MID	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1711	705	1.9	12.8	1339	35	35% Class B Poz + 65% Class C	6% gel+5% salt + ¼ #/sack poly flake + 0.005 gal/sack No Foam V1A
SURFACE	Tail		0	1711	240	1.33	14.8	319	35	Class C	1% CaCl2 + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Lead		0	4000	800	1.9	12.8	1520	20	35% Class B Poz + 65% Class C	6% gel + 5% salt + 0.4% R-1300 + ¼ #/sack poly flake + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Tail		4000	5124	320	1.27	14.2	406	20	50% Class B Poz + 50% Class C	5% salt + 0.05% FR-5 + 0.005 gal/sack No Foam V1A
PRODUCTION	Lead		0	2036 0	910	3.38	10.7	3075	20	100% Class H	5 #/sk Plexcrete + 2% SMS + 0.65% R-1300 + 0.2% FL-24 + 3 #/sk gilsonite + 0.005% gal/sk No Foam V1A
PRODUCTION	Tail		0	2036 0	2685	1.21	14.5	3248	20	50% Class B Poz + 50% Class H	5% salt + 0.05% SuspendaCem 6302 + 0.2% FR-5 + 0.5% FL-24 + 0.005% gal/sack No Foam V1A

**Operator Name:** AVANT OPERATING LLC

**Well Name:** DAYTONA 29 FED COM

**Well Number:** 603H

### 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 always be kept on site.

**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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1711	OTHER : Fresh Water	8.4	9.9							
1711	5124	OTHER : Brine	9.8	10							
5124	1043 2	OTHER : Cut Brine	9.2	9.5							
1043 2	2036 0	OIL-BASED MUD	9	9.2							

### Section 6 - Test, Logging, Coring

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

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,

**Coring operation description for the well:**

No core or open hole or cased hole log is planned.

**Operator Name:** AVANT OPERATING LLC

**Well Name:** DAYTONA 29 FED COM

**Well Number:** 603H

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4727

**Anticipated Surface Pressure:** 2504

**Anticipated Bottom Hole Temperature(F):** 166

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

Daytona\_Pad2\_H2S\_Plan\_20230425094132.pdf

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Daytona\_603H\_Horizontal\_Plan\_20230425094148.pdf

**Other proposed operations facets description:**

All casing strings below the conductor will be pressure tested to 0.22 psi/ft x 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:**

CoFlex\_Certs\_20230425094221.pdf

Daytona\_603H\_Speedhead\_Specs\_20230425094242.pdf

Daytona\_603H\_Drill\_Plan\_Rev\_20240121101806.pdf

Daytona\_603H\_Anticollision\_Report\_20240121101816.pdf

**Other Variance attachment:**

Casing\_Cementing\_Variance\_20230425094253.pdf

**WELL DETAILS: Daytona 29 Fed Com 603H**

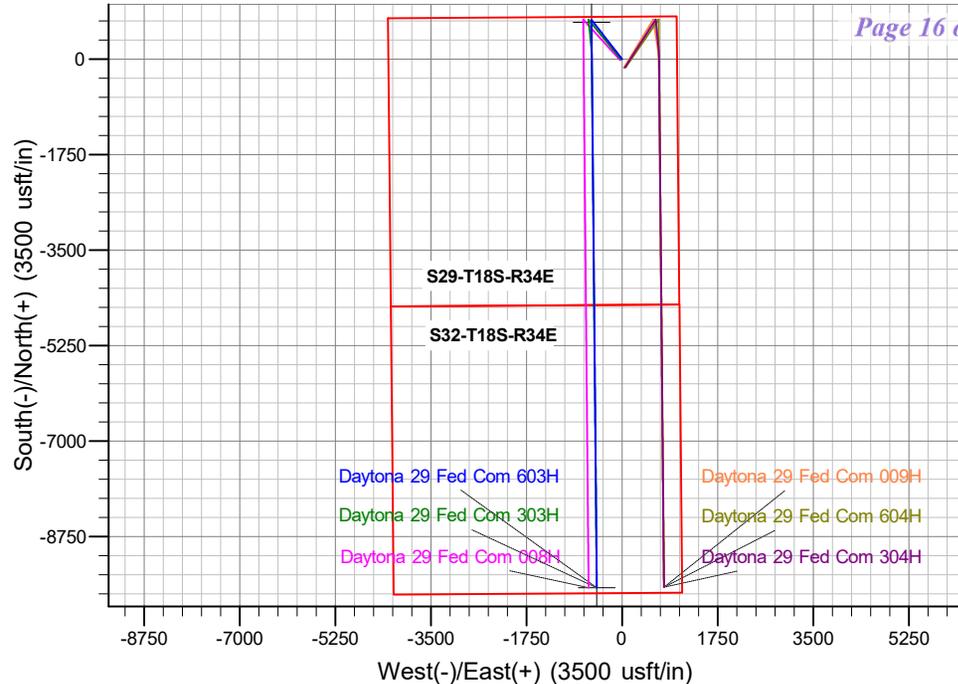
Ground Elev: 4048.0 KB: 4074.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	627890.78	773878.23	32.7238310°N	103.5771816°W

**PROJECT DETAILS: Lea Co., NM (NAD 83)**

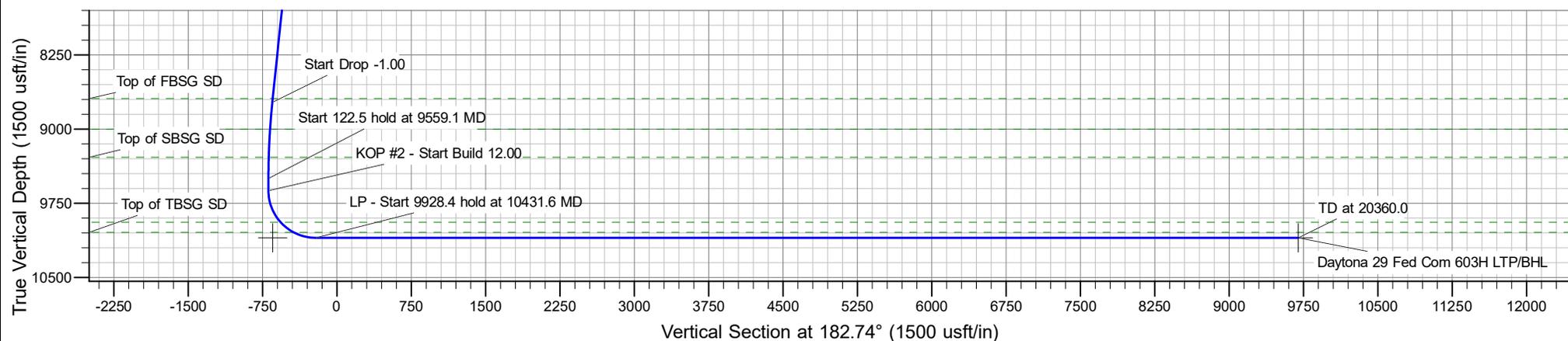
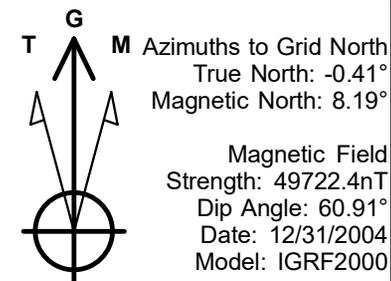
Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	2771.5	7.71	322.09	2769.2	40.9	-31.9	1.00	322.09	-39.3	Start 6016.1 hold at 2771.5 MD
4	8787.6	7.71	322.09	8730.8	678.1	-528.1	0.00	0.00	-652.1	Start Drop -1.00
5	9559.1	0.00	0.00	9500.0	719.0	-560.0	1.00	180.00	-691.4	Start 122.5 hold at 9559.1 MD
6	9681.6	0.00	0.00	9622.5	719.0	-560.0	0.00	0.00	-691.4	KOP #2 - Start Build 12.00
7	10431.6	90.00	179.47	10100.0	241.6	-555.6	12.00	179.47	-214.7	LP - Start 9928.4 hold at 10431.6 MD
8	20360.0	90.00	179.47	10100.0	-9686.4	-463.7	0.00	0.00	9697.5	TD at 20360.0





Planning Report



<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Daytona 29 Fed Com 603H
<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

<b>Project</b>	Lea Co., NM (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Daytona 29 Fed Com Pad 2				
<b>Site Position:</b>		<b>Northing:</b>	627,745.73 usft	<b>Latitude:</b>	32.7234310°N
<b>From:</b>	Lat/Long	<b>Easting:</b>	773,945.91 usft	<b>Longitude:</b>	103.5769649°W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	Daytona 29 Fed Com 603H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	627,890.78 usft	<b>Latitude:</b>	32.7238310°N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	773,878.23 usft	<b>Longitude:</b>	103.5771816°W
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	4,048.0 usft
<b>Grid Convergence:</b>	0.41 °					

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2000	12/31/2004	8.60	60.91	49,722.37285542

<b>Design</b>	Plan 0.1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	182.74

<b>Plan Survey Tool Program</b>	<b>Date</b>	3/28/2023		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	20,360.0 Plan 0.1 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,771.5	7.71	322.09	2,769.2	40.9	-31.9	1.00	1.00	0.00	322.09	
8,787.6	7.71	322.09	8,730.8	678.1	-528.1	0.00	0.00	0.00	0.00	
9,559.1	0.00	0.00	9,500.0	719.0	-560.0	1.00	-1.00	0.00	180.00	
9,681.6	0.00	0.00	9,622.5	719.0	-560.0	0.00	0.00	0.00	0.00	
10,431.6	90.00	179.47	10,100.0	241.6	-555.6	12.00	12.00	0.00	179.47	
20,360.0	90.00	179.47	10,100.0	-9,686.4	-463.7	0.00	0.00	0.00	0.00	Daytona 29 Fed Com



Planning Report



<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Daytona 29 Fed Com 603H
<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,686.0	0.00	0.00	1,686.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>RUSTLER</b>									
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP - Start Build 1.00</b>									
2,100.0	1.00	322.09	2,100.0	0.7	-0.5	-0.7	1.00	1.00	0.00
2,200.0	2.00	322.09	2,200.0	2.8	-2.1	-2.6	1.00	1.00	0.00
2,300.0	3.00	322.09	2,299.9	6.2	-4.8	-6.0	1.00	1.00	0.00
2,400.0	4.00	322.09	2,399.7	11.0	-8.6	-10.6	1.00	1.00	0.00
2,500.0	5.00	322.09	2,499.4	17.2	-13.4	-16.5	1.00	1.00	0.00
2,600.0	6.00	322.09	2,598.9	24.8	-19.3	-23.8	1.00	1.00	0.00
2,700.0	7.00	322.09	2,698.3	33.7	-26.2	-32.4	1.00	1.00	0.00
2,771.5	7.71	322.09	2,769.2	40.9	-31.9	-39.3	1.00	1.00	0.00
<b>Start 6016.1 hold at 2771.5 MD</b>									
2,800.0	7.71	322.09	2,797.4	43.9	-34.2	-42.2	0.00	0.00	0.00
2,900.0	7.71	322.09	2,896.5	54.5	-42.5	-52.4	0.00	0.00	0.00
3,000.0	7.71	322.09	2,995.6	65.1	-50.7	-62.6	0.00	0.00	0.00
3,100.0	7.71	322.09	3,094.7	75.7	-59.0	-72.8	0.00	0.00	0.00
3,165.9	7.71	322.09	3,160.0	82.7	-64.4	-79.5	0.00	0.00	0.00
<b>YATES</b>									
3,200.0	7.71	322.09	3,193.8	86.3	-67.2	-83.0	0.00	0.00	0.00
3,300.0	7.71	322.09	3,292.9	96.9	-75.5	-93.2	0.00	0.00	0.00
3,400.0	7.71	322.09	3,392.0	107.5	-83.7	-103.4	0.00	0.00	0.00
3,500.0	7.71	322.09	3,491.1	118.1	-92.0	-113.5	0.00	0.00	0.00
3,600.0	7.71	322.09	3,590.2	128.7	-100.2	-123.7	0.00	0.00	0.00
3,658.4	7.71	322.09	3,648.0	134.8	-105.0	-129.7	0.00	0.00	0.00
<b>SEVEN RIVERS</b>									
3,700.0	7.71	322.09	3,689.3	139.3	-108.5	-133.9	0.00	0.00	0.00
3,800.0	7.71	322.09	3,788.4	149.8	-116.7	-144.1	0.00	0.00	0.00
3,900.0	7.71	322.09	3,887.5	160.4	-125.0	-154.3	0.00	0.00	0.00
4,000.0	7.71	322.09	3,986.6	171.0	-133.2	-164.5	0.00	0.00	0.00
4,100.0	7.71	322.09	4,085.6	181.6	-141.5	-174.6	0.00	0.00	0.00
4,200.0	7.71	322.09	4,184.7	192.2	-149.7	-184.8	0.00	0.00	0.00
4,300.0	7.71	322.09	4,283.8	202.8	-158.0	-195.0	0.00	0.00	0.00



Planning Report



<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Daytona 29 Fed Com 603H
<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,378.9	7.71	322.09	4,362.0	211.2	-164.5	-203.0	0.00	0.00	0.00
<b>QUEEN</b>									
4,400.0	7.71	322.09	4,382.9	213.4	-166.2	-205.2	0.00	0.00	0.00
4,500.0	7.71	322.09	4,482.0	224.0	-174.5	-215.4	0.00	0.00	0.00
4,600.0	7.71	322.09	4,581.1	234.6	-182.7	-225.6	0.00	0.00	0.00
4,700.0	7.71	322.09	4,680.2	245.2	-190.9	-235.8	0.00	0.00	0.00
4,800.0	7.71	322.09	4,779.3	255.8	-199.2	-245.9	0.00	0.00	0.00
4,900.0	7.71	322.09	4,878.4	266.3	-207.4	-256.1	0.00	0.00	0.00
5,000.0	7.71	322.09	4,977.5	276.9	-215.7	-266.3	0.00	0.00	0.00
5,100.0	7.71	322.09	5,076.6	287.5	-223.9	-276.5	0.00	0.00	0.00
5,200.0	7.71	322.09	5,175.7	298.1	-232.2	-286.7	0.00	0.00	0.00
5,300.0	7.71	322.09	5,274.8	308.7	-240.4	-296.9	0.00	0.00	0.00
5,400.0	7.71	322.09	5,373.9	319.3	-248.7	-307.0	0.00	0.00	0.00
5,448.6	7.71	322.09	5,422.0	324.4	-252.7	-312.0	0.00	0.00	0.00
<b>CHERRY CANYON</b>									
5,500.0	7.71	322.09	5,473.0	329.9	-256.9	-317.2	0.00	0.00	0.00
5,600.0	7.71	322.09	5,572.1	340.5	-265.2	-327.4	0.00	0.00	0.00
5,700.0	7.71	322.09	5,671.2	351.1	-273.4	-337.6	0.00	0.00	0.00
5,800.0	7.71	322.09	5,770.3	361.7	-281.7	-347.8	0.00	0.00	0.00
5,900.0	7.71	322.09	5,869.4	372.3	-289.9	-358.0	0.00	0.00	0.00
6,000.0	7.71	322.09	5,968.4	382.8	-298.2	-368.2	0.00	0.00	0.00
6,100.0	7.71	322.09	6,067.5	393.4	-306.4	-378.3	0.00	0.00	0.00
6,124.7	7.71	322.09	6,092.0	396.1	-308.5	-380.8	0.00	0.00	0.00
<b>BRUSHY CANYON</b>									
6,200.0	7.71	322.09	6,166.6	404.0	-314.7	-388.5	0.00	0.00	0.00
6,300.0	7.71	322.09	6,265.7	414.6	-322.9	-398.7	0.00	0.00	0.00
6,400.0	7.71	322.09	6,364.8	425.2	-331.2	-408.9	0.00	0.00	0.00
6,500.0	7.71	322.09	6,463.9	435.8	-339.4	-419.1	0.00	0.00	0.00
6,600.0	7.71	322.09	6,563.0	446.4	-347.7	-429.3	0.00	0.00	0.00
6,700.0	7.71	322.09	6,662.1	457.0	-355.9	-439.4	0.00	0.00	0.00
6,800.0	7.71	322.09	6,761.2	467.6	-364.2	-449.6	0.00	0.00	0.00
6,900.0	7.71	322.09	6,860.3	478.2	-372.4	-459.8	0.00	0.00	0.00
7,000.0	7.71	322.09	6,959.4	488.8	-380.7	-470.0	0.00	0.00	0.00
7,100.0	7.71	322.09	7,058.5	499.3	-388.9	-480.2	0.00	0.00	0.00
7,200.0	7.71	322.09	7,157.6	509.9	-397.2	-490.4	0.00	0.00	0.00
7,300.0	7.71	322.09	7,256.7	520.5	-405.4	-500.5	0.00	0.00	0.00
7,364.9	7.71	322.09	7,321.0	527.4	-410.8	-507.2	0.00	0.00	0.00
<b>Top of BSGL</b>									
7,400.0	7.71	322.09	7,355.8	531.1	-413.7	-510.7	0.00	0.00	0.00
7,500.0	7.71	322.09	7,454.9	541.7	-421.9	-520.9	0.00	0.00	0.00
7,600.0	7.71	322.09	7,554.0	552.3	-430.2	-531.1	0.00	0.00	0.00
7,624.3	7.71	322.09	7,578.0	554.9	-432.2	-533.6	0.00	0.00	0.00
<b>Top of Avalon A</b>									
7,700.0	7.71	322.09	7,653.1	562.9	-438.4	-541.3	0.00	0.00	0.00
7,800.0	7.71	322.09	7,752.2	573.5	-446.7	-551.5	0.00	0.00	0.00
7,900.0	7.71	322.09	7,851.2	584.1	-454.9	-561.7	0.00	0.00	0.00
8,000.0	7.71	322.09	7,950.3	594.7	-463.2	-571.8	0.00	0.00	0.00
8,100.0	7.71	322.09	8,049.4	605.3	-471.4	-582.0	0.00	0.00	0.00
8,200.0	7.71	322.09	8,148.5	615.8	-479.7	-592.2	0.00	0.00	0.00
8,300.0	7.71	322.09	8,247.6	626.4	-487.9	-602.4	0.00	0.00	0.00
8,400.0	7.71	322.09	8,346.7	637.0	-496.2	-612.6	0.00	0.00	0.00
8,500.0	7.71	322.09	8,445.8	647.6	-504.4	-622.8	0.00	0.00	0.00
8,600.0	7.71	322.09	8,544.9	658.2	-512.7	-632.9	0.00	0.00	0.00



Planning Report



<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Daytona 29 Fed Com 603H
<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,700.0	7.71	322.09	8,644.0	668.8	-520.9	-643.1	0.00	0.00	0.00	
8,748.4	7.71	322.09	8,692.0	673.9	-524.9	-648.1	0.00	0.00	0.00	
<b>Top of FBSG SD</b>										
8,787.6	7.71	322.09	8,730.8	678.1	-528.1	-652.1	0.00	0.00	0.00	
<b>Start Drop -1.00</b>										
8,800.0	7.59	322.09	8,743.1	679.4	-529.1	-653.3	1.00	-1.00	0.00	
8,900.0	6.59	322.09	8,842.3	689.1	-536.7	-662.7	1.00	-1.00	0.00	
9,000.0	5.59	322.09	8,941.8	697.5	-543.3	-670.7	1.00	-1.00	0.00	
9,059.5	5.00	322.09	9,001.0	701.8	-546.6	-674.9	1.00	-1.00	0.00	
<b>Top of SBSG Shale</b>										
9,100.0	4.59	322.09	9,041.4	704.5	-548.7	-677.5	1.00	-1.00	0.00	
9,200.0	3.59	322.09	9,141.1	710.1	-553.1	-682.9	1.00	-1.00	0.00	
9,300.0	2.59	322.09	9,241.0	714.4	-556.4	-687.0	1.00	-1.00	0.00	
9,345.1	2.14	322.09	9,286.0	715.8	-557.5	-688.4	1.00	-1.00	0.00	
<b>Top of SBSG SD</b>										
9,400.0	1.59	322.09	9,340.9	717.3	-558.6	-689.7	1.00	-1.00	0.00	
9,500.0	0.59	322.09	9,440.9	718.8	-559.8	-691.2	1.00	-1.00	0.00	
9,559.1	0.00	0.00	9,500.0	719.0	-560.0	-691.4	1.00	-1.00	64.14	
<b>Start 122.5 hold at 9559.1 MD</b>										
9,600.0	0.00	0.00	9,540.9	719.0	-560.0	-691.4	0.00	0.00	0.00	
9,681.6	0.00	0.00	9,622.5	719.0	-560.0	-691.4	0.00	0.00	0.00	
<b>KOP #2 - Start Build 12.00</b>										
9,700.0	2.20	179.47	9,640.9	718.6	-560.0	-691.0	12.00	12.00	0.00	
9,800.0	14.20	179.47	9,739.7	704.4	-559.9	-676.8	12.00	12.00	0.00	
9,900.0	26.20	179.47	9,833.4	669.9	-559.5	-642.4	12.00	12.00	0.00	
10,000.0	38.20	179.47	9,917.8	616.7	-559.1	-589.3	12.00	12.00	0.00	
10,031.6	42.00	179.47	9,942.0	596.4	-558.9	-569.0	12.00	12.00	0.00	
<b>Top of TBSG Carb</b>										
10,083.9	48.27	179.47	9,978.8	559.4	-558.5	-532.0	12.00	12.00	0.00	
<b>Daytona 29 Fed Com 603H FTP</b>										
10,100.0	50.20	179.47	9,989.4	547.2	-558.4	-519.8	12.00	12.00	0.00	
10,200.0	62.20	179.47	10,044.9	464.2	-557.6	-437.0	12.00	12.00	0.00	
10,200.2	62.20	179.47	10,045.0	464.0	-557.6	-436.8	0.00	0.00	0.00	
<b>Top of TBSG SD</b>										
10,300.0	74.20	179.47	10,082.0	371.5	-556.8	-344.5	12.03	12.03	0.00	
10,400.0	86.20	179.47	10,099.0	273.2	-555.9	-246.3	12.00	12.00	0.00	
10,431.6	90.00	179.47	10,100.0	241.6	-555.6	-214.7	12.00	12.00	0.00	
<b>LP - Start 9928.4 hold at 10431.6 MD</b>										
10,500.0	90.00	179.47	10,100.0	173.2	-554.9	-146.5	0.00	0.00	0.00	
10,600.0	90.00	179.47	10,100.0	73.2	-554.0	-46.6	0.00	0.00	0.00	
10,700.0	90.00	179.47	10,100.0	-26.8	-553.1	53.2	0.00	0.00	0.00	
10,800.0	90.00	179.47	10,100.0	-126.8	-552.2	153.0	0.00	0.00	0.00	
10,900.0	90.00	179.47	10,100.0	-226.8	-551.2	252.9	0.00	0.00	0.00	
11,000.0	90.00	179.47	10,100.0	-326.8	-550.3	352.7	0.00	0.00	0.00	
11,100.0	90.00	179.47	10,100.0	-426.8	-549.4	452.5	0.00	0.00	0.00	
11,200.0	90.00	179.47	10,100.0	-526.8	-548.5	552.4	0.00	0.00	0.00	
11,300.0	90.00	179.47	10,100.0	-626.8	-547.5	652.2	0.00	0.00	0.00	
11,400.0	90.00	179.47	10,100.0	-726.8	-546.6	752.1	0.00	0.00	0.00	
11,500.0	90.00	179.47	10,100.0	-826.7	-545.7	851.9	0.00	0.00	0.00	
11,600.0	90.00	179.47	10,100.0	-926.7	-544.8	951.7	0.00	0.00	0.00	
11,700.0	90.00	179.47	10,100.0	-1,026.7	-543.8	1,051.6	0.00	0.00	0.00	
11,800.0	90.00	179.47	10,100.0	-1,126.7	-542.9	1,151.4	0.00	0.00	0.00	
11,900.0	90.00	179.47	10,100.0	-1,226.7	-542.0	1,251.2	0.00	0.00	0.00	



Planning Report



<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Daytona 29 Fed Com 603H
<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,000.0	90.00	179.47	10,100.0	-1,326.7	-541.1	1,351.1	0.00	0.00	0.00
12,100.0	90.00	179.47	10,100.0	-1,426.7	-540.1	1,450.9	0.00	0.00	0.00
12,200.0	90.00	179.47	10,100.0	-1,526.7	-539.2	1,550.8	0.00	0.00	0.00
12,300.0	90.00	179.47	10,100.0	-1,626.7	-538.3	1,650.6	0.00	0.00	0.00
12,400.0	90.00	179.47	10,100.0	-1,726.7	-537.4	1,750.4	0.00	0.00	0.00
12,500.0	90.00	179.47	10,100.0	-1,826.7	-536.4	1,850.3	0.00	0.00	0.00
12,600.0	90.00	179.47	10,100.0	-1,926.7	-535.5	1,950.1	0.00	0.00	0.00
12,700.0	90.00	179.47	10,100.0	-2,026.7	-534.6	2,049.9	0.00	0.00	0.00
12,800.0	90.00	179.47	10,100.0	-2,126.7	-533.7	2,149.8	0.00	0.00	0.00
12,900.0	90.00	179.47	10,100.0	-2,226.7	-532.7	2,249.6	0.00	0.00	0.00
13,000.0	90.00	179.47	10,100.0	-2,326.7	-531.8	2,349.5	0.00	0.00	0.00
13,100.0	90.00	179.47	10,100.0	-2,426.7	-530.9	2,449.3	0.00	0.00	0.00
13,200.0	90.00	179.47	10,100.0	-2,526.7	-530.0	2,549.1	0.00	0.00	0.00
13,300.0	90.00	179.47	10,100.0	-2,626.7	-529.0	2,649.0	0.00	0.00	0.00
13,400.0	90.00	179.47	10,100.0	-2,726.7	-528.1	2,748.8	0.00	0.00	0.00
13,500.0	90.00	179.47	10,100.0	-2,826.7	-527.2	2,848.6	0.00	0.00	0.00
13,600.0	90.00	179.47	10,100.0	-2,926.7	-526.3	2,948.5	0.00	0.00	0.00
13,700.0	90.00	179.47	10,100.0	-3,026.7	-525.3	3,048.3	0.00	0.00	0.00
13,800.0	90.00	179.47	10,100.0	-3,126.7	-524.4	3,148.1	0.00	0.00	0.00
13,900.0	90.00	179.47	10,100.0	-3,226.6	-523.5	3,248.0	0.00	0.00	0.00
14,000.0	90.00	179.47	10,100.0	-3,326.6	-522.6	3,347.8	0.00	0.00	0.00
14,100.0	90.00	179.47	10,100.0	-3,426.6	-521.6	3,447.7	0.00	0.00	0.00
14,200.0	90.00	179.47	10,100.0	-3,526.6	-520.7	3,547.5	0.00	0.00	0.00
14,300.0	90.00	179.47	10,100.0	-3,626.6	-519.8	3,647.3	0.00	0.00	0.00
14,400.0	90.00	179.47	10,100.0	-3,726.6	-518.9	3,747.2	0.00	0.00	0.00
14,500.0	90.00	179.47	10,100.0	-3,826.6	-517.9	3,847.0	0.00	0.00	0.00
14,600.0	90.00	179.47	10,100.0	-3,926.6	-517.0	3,946.8	0.00	0.00	0.00
14,700.0	90.00	179.47	10,100.0	-4,026.6	-516.1	4,046.7	0.00	0.00	0.00
14,800.0	90.00	179.47	10,100.0	-4,126.6	-515.2	4,146.5	0.00	0.00	0.00
14,900.0	90.00	179.47	10,100.0	-4,226.6	-514.2	4,246.4	0.00	0.00	0.00
15,000.0	90.00	179.47	10,100.0	-4,326.6	-513.3	4,346.2	0.00	0.00	0.00
15,100.0	90.00	179.47	10,100.0	-4,426.6	-512.4	4,446.0	0.00	0.00	0.00
15,200.0	90.00	179.47	10,100.0	-4,526.6	-511.5	4,545.9	0.00	0.00	0.00
15,300.0	90.00	179.47	10,100.0	-4,626.6	-510.5	4,645.7	0.00	0.00	0.00
15,400.0	90.00	179.47	10,100.0	-4,726.6	-509.6	4,745.5	0.00	0.00	0.00
15,500.0	90.00	179.47	10,100.0	-4,826.6	-508.7	4,845.4	0.00	0.00	0.00
15,600.0	90.00	179.47	10,100.0	-4,926.6	-507.7	4,945.2	0.00	0.00	0.00
15,700.0	90.00	179.47	10,100.0	-5,026.6	-506.8	5,045.1	0.00	0.00	0.00
15,800.0	90.00	179.47	10,100.0	-5,126.6	-505.9	5,144.9	0.00	0.00	0.00
15,900.0	90.00	179.47	10,100.0	-5,226.6	-505.0	5,244.7	0.00	0.00	0.00
16,000.0	90.00	179.47	10,100.0	-5,326.6	-504.0	5,344.6	0.00	0.00	0.00
16,100.0	90.00	179.47	10,100.0	-5,426.6	-503.1	5,444.4	0.00	0.00	0.00
16,200.0	90.00	179.47	10,100.0	-5,526.5	-502.2	5,544.2	0.00	0.00	0.00
16,300.0	90.00	179.47	10,100.0	-5,626.5	-501.3	5,644.1	0.00	0.00	0.00
16,400.0	90.00	179.47	10,100.0	-5,726.5	-500.3	5,743.9	0.00	0.00	0.00
16,500.0	90.00	179.47	10,100.0	-5,826.5	-499.4	5,843.8	0.00	0.00	0.00
16,600.0	90.00	179.47	10,100.0	-5,926.5	-498.5	5,943.6	0.00	0.00	0.00
16,700.0	90.00	179.47	10,100.0	-6,026.5	-497.6	6,043.4	0.00	0.00	0.00
16,800.0	90.00	179.47	10,100.0	-6,126.5	-496.6	6,143.3	0.00	0.00	0.00
16,900.0	90.00	179.47	10,100.0	-6,226.5	-495.7	6,243.1	0.00	0.00	0.00
17,000.0	90.00	179.47	10,100.0	-6,326.5	-494.8	6,342.9	0.00	0.00	0.00
17,100.0	90.00	179.47	10,100.0	-6,426.5	-493.9	6,442.8	0.00	0.00	0.00
17,200.0	90.00	179.47	10,100.0	-6,526.5	-492.9	6,542.6	0.00	0.00	0.00
17,300.0	90.00	179.47	10,100.0	-6,626.5	-492.0	6,642.4	0.00	0.00	0.00



Planning Report



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<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,400.0	90.00	179.47	10,100.0	-6,726.5	-491.1	6,742.3	0.00	0.00	0.00	
17,500.0	90.00	179.47	10,100.0	-6,826.5	-490.2	6,842.1	0.00	0.00	0.00	
17,600.0	90.00	179.47	10,100.0	-6,926.5	-489.2	6,942.0	0.00	0.00	0.00	
17,700.0	90.00	179.47	10,100.0	-7,026.5	-488.3	7,041.8	0.00	0.00	0.00	
17,800.0	90.00	179.47	10,100.0	-7,126.5	-487.4	7,141.6	0.00	0.00	0.00	
17,900.0	90.00	179.47	10,100.0	-7,226.5	-486.5	7,241.5	0.00	0.00	0.00	
18,000.0	90.00	179.47	10,100.0	-7,326.5	-485.5	7,341.3	0.00	0.00	0.00	
18,100.0	90.00	179.47	10,100.0	-7,426.5	-484.6	7,441.1	0.00	0.00	0.00	
18,200.0	90.00	179.47	10,100.0	-7,526.5	-483.7	7,541.0	0.00	0.00	0.00	
18,300.0	90.00	179.47	10,100.0	-7,626.5	-482.8	7,640.8	0.00	0.00	0.00	
18,400.0	90.00	179.47	10,100.0	-7,726.5	-481.8	7,740.7	0.00	0.00	0.00	
18,500.0	90.00	179.47	10,100.0	-7,826.4	-480.9	7,840.5	0.00	0.00	0.00	
18,600.0	90.00	179.47	10,100.0	-7,926.4	-480.0	7,940.3	0.00	0.00	0.00	
18,700.0	90.00	179.47	10,100.0	-8,026.4	-479.1	8,040.2	0.00	0.00	0.00	
18,800.0	90.00	179.47	10,100.0	-8,126.4	-478.1	8,140.0	0.00	0.00	0.00	
18,900.0	90.00	179.47	10,100.0	-8,226.4	-477.2	8,239.8	0.00	0.00	0.00	
19,000.0	90.00	179.47	10,100.0	-8,326.4	-476.3	8,339.7	0.00	0.00	0.00	
19,100.0	90.00	179.47	10,100.0	-8,426.4	-475.4	8,439.5	0.00	0.00	0.00	
19,200.0	90.00	179.47	10,100.0	-8,526.4	-474.4	8,539.4	0.00	0.00	0.00	
19,300.0	90.00	179.47	10,100.0	-8,626.4	-473.5	8,639.2	0.00	0.00	0.00	
19,400.0	90.00	179.47	10,100.0	-8,726.4	-472.6	8,739.0	0.00	0.00	0.00	
19,500.0	90.00	179.47	10,100.0	-8,826.4	-471.7	8,838.9	0.00	0.00	0.00	
19,600.0	90.00	179.47	10,100.0	-8,926.4	-470.7	8,938.7	0.00	0.00	0.00	
19,700.0	90.00	179.47	10,100.0	-9,026.4	-469.8	9,038.5	0.00	0.00	0.00	
19,800.0	90.00	179.47	10,100.0	-9,126.4	-468.9	9,138.4	0.00	0.00	0.00	
19,900.0	90.00	179.47	10,100.0	-9,226.4	-468.0	9,238.2	0.00	0.00	0.00	
20,000.0	90.00	179.47	10,100.0	-9,326.4	-467.0	9,338.0	0.00	0.00	0.00	
20,100.0	90.00	179.47	10,100.0	-9,426.4	-466.1	9,437.9	0.00	0.00	0.00	
20,200.0	90.00	179.47	10,100.0	-9,526.4	-465.2	9,537.7	0.00	0.00	0.00	
20,300.0	90.00	179.47	10,100.0	-9,626.4	-464.3	9,637.6	0.00	0.00	0.00	
20,360.0	90.00	179.47	10,100.0	-9,686.4	-463.7	9,697.5	0.00	0.00	0.00	
TD at 20360.0 - Daytona 29 Fed Com 603H LTP/BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Daytona 29 Fed Com 6C - hit/miss target - Shape - Point	0.00	0.00	10,100.0	676.0	-559.1	628,566.78	773,319.14	32.7256999°N	103.5789838°W	- plan misses target center by 168.2usft at 10083.9usft MD (9978.8 TVD, 559.4 N, -558.5 E)
Daytona 29 Fed Com 6C - plan hits target center - Point	0.00	0.01	10,100.0	-9,686.4	-463.7	618,204.40	773,414.53	32.6972175°N	103.5789134°W	



Planning Report



<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Daytona 29 Fed Com 603H
<b>Company:</b>	Avant Operating, LLC	<b>TVD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Project:</b>	Lea Co., NM (NAD 83)	<b>MD Reference:</b>	WELL @ 4074.5usft (4074.5)
<b>Site:</b>	Daytona 29 Fed Com Pad 2	<b>North Reference:</b>	Grid
<b>Well:</b>	Daytona 29 Fed Com 603H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,686.0	1,686.0	RUSTLER				
3,165.9	3,160.0	YATES				
3,658.4	3,648.0	SEVEN RIVERS				
4,378.9	4,362.0	QUEEN				
5,448.6	5,422.0	CHERRY CANYON				
6,124.7	6,092.0	BRUSHY CANYON				
7,364.9	7,321.0	Top of BSGL				
7,624.3	7,578.0	Top of Avalon A				
8,748.4	8,692.0	Top of FBSG SD				
9,059.5	9,001.0	Top of SBSG Shale				
9,345.1	9,286.0	Top of SBSG SD				
10,031.6	9,942.0	Top of TBSG Carb				
10,200.2	10,045.0	Top of TBSG SD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,000.0	2,000.0	0.0	0.0	KOP - Start Build 1.00	
2,771.5	2,769.2	40.9	-31.9	Start 6016.1 hold at 2771.5 MD	
8,787.6	8,730.8	678.1	-528.1	Start Drop -1.00	
9,559.1	9,500.0	719.0	-560.0	Start 122.5 hold at 9559.1 MD	
9,681.6	9,622.5	719.0	-560.0	KOP #2 - Start Build 12.00	
10,431.6	10,100.0	241.6	-555.6	LP - Start 9928.4 hold at 10431.6 MD	
20,360.0	10,100.0	-9,686.4	-463.7	TD at 20360.0	

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Avant Operating LLC
<b>LEASE NO.:</b>	NMNM116166
<b>LOCATION:</b>	Section 29, T.18 S., R.34 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico <input type="text"/>

<b>WELL NAME &amp; NO.:</b>	Daytona 29 Fed Com 301H
<b>SURFACE HOLE FOOTAGE:</b>	160'/N & 1520'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 1260'/W
<b>ATS/API ID:</b>	ATS-23-1322
<b>APD ID:</b>	10400091708
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	Daytona 29 Fed Com 302H
<b>SURFACE HOLE FOOTAGE:</b>	320'/N & 1520'/W
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 2490'/W
<b>ATS/API ID:</b>	ATS-23-1316
<b>APD ID:</b>	10400091735
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	Daytona 29 Fed Com 303H
<b>SURFACE HOLE FOOTAGE:</b>	788'/N & 1025'/E
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 1560'/E
<b>ATS/API ID:</b>	ATS-23-1328
<b>APD ID:</b>	10400091835
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	Daytona 29 Fed Com 304H
<b>SURFACE HOLE FOOTAGE:</b>	933'/N & 959'/E
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 330'/E
<b>ATS/API ID:</b>	ATS-23-1327
<b>APD ID:</b>	10400091862
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	Daytona 29 Fed Com 603H
<b>SURFACE HOLE FOOTAGE:</b>	779'/N & 1007'/E
<b>BOTTOM HOLE FOOTAGE:</b>	100'/S & 1560'/E
<b>ATS/API ID:</b>	ATS-23-2141
<b>APD ID:</b>	10400091863
<b>Sundry ID:</b>	N/a

<b>WELL NAME &amp; NO.:</b>	<b>Daytona 29 Fed Com 604H</b>
<b>SURFACE HOLE FOOTAGE:</b>	925’/N & 941’/E
<b>BOTTOM HOLE FOOTAGE:</b>	100’/S & 330’/E
<b>ATS/API ID:</b>	<b>ATS-23-2142</b>
<b>APD ID:</b>	<b>10400091865</b>
<b>Sundry ID:</b>	N/a

COA

H2S	<input type="text" value="Yes"/>		
Potash	<input type="text" value="None"/>		
Cave/Karst Potential	<input type="text" value="Low"/>		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	<input type="text" value="Conventional and Multibowl"/>		
Other	<input type="checkbox"/> 4 String	Capitan Reef <input type="text" value="None"/>	<input type="checkbox"/> WIPP
Other	Pilot Hole <input type="text" value="None"/>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze <input type="text" value="None"/>	Echo-Meter <input type="text" value="None"/>	Primary Cement Squeeze <input type="text" value="None"/>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

**A. HYDROGEN SULFIDE**

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

## B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1900 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
  - 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 **8 hours** 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:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

## 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.

### Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

### **Option 2:**

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch 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 43 CFR 3172.6(b)(9) 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- 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. When the Communitization Agreement number is known, it shall also be on the sign.

## 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)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,  
(575) 689-5981

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 2<sup>nd</sup> 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 **43 CFR part 3170 Subpart 3172** 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 when present.

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.
2. Wait on cement (WOC) for Potash Areas: 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 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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 **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
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 43 CFR 3172.6(b)(9) 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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 **43 CFR part 3170 Subpart 3172**.
- 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.

Long Vo (LVO) 3/6/2024

## 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/Escapes packs — 4 packs shall be stored on the rig floor with 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.



- **Mud program:**  
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 while drilling in H2S bearing zones.
- **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 Geoscience	Office: (720) 746-5045
	Mobile: (678) 988-6644
Braden Harris, Engineer	Mobile: (406) 600-3310

Local & County Agencies

Maljamar Volunter Fire Department	911 or (575) 676-4100
Lea County Sheriff (Lovington)	911 or (575) 396-3611
Lea County Emergency Management (Lovington)	(575) 396-8602
Lea Regional Medical Center Hospital (Hobbs)	(575) 492-5000

State Agencies

NM State Police (Hobbs)	(575) 392-5588
NM Oil Conservation (Hobbs)	(575) 370-3186
NM Oil Conservation (Santa Fe)	(505) 476-3440
NM Dept. of Transportation (Roswell)	(575) 637-7201



Federal Agencies

BLM (Carlsbad)	(575) 234-5972
BLM (Hobbs)	(575) 393-3612
National Response Center	(800) 424-8802
US EPA Region 6 (Dallas)	(800) 887-6063
	(214) 665-6444

Veterinarians

Lovington Veterinary Clinic	(575) 396-7387
Hobbs Animal Clinic	(575) 392-5563
Dal Paso Animal Hospital (Hobbs)	(575) 397-2286

Residents within 2 miles

None

Air Evacuation

AeroCare (Lubbock)	(800) 627-2376
Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256

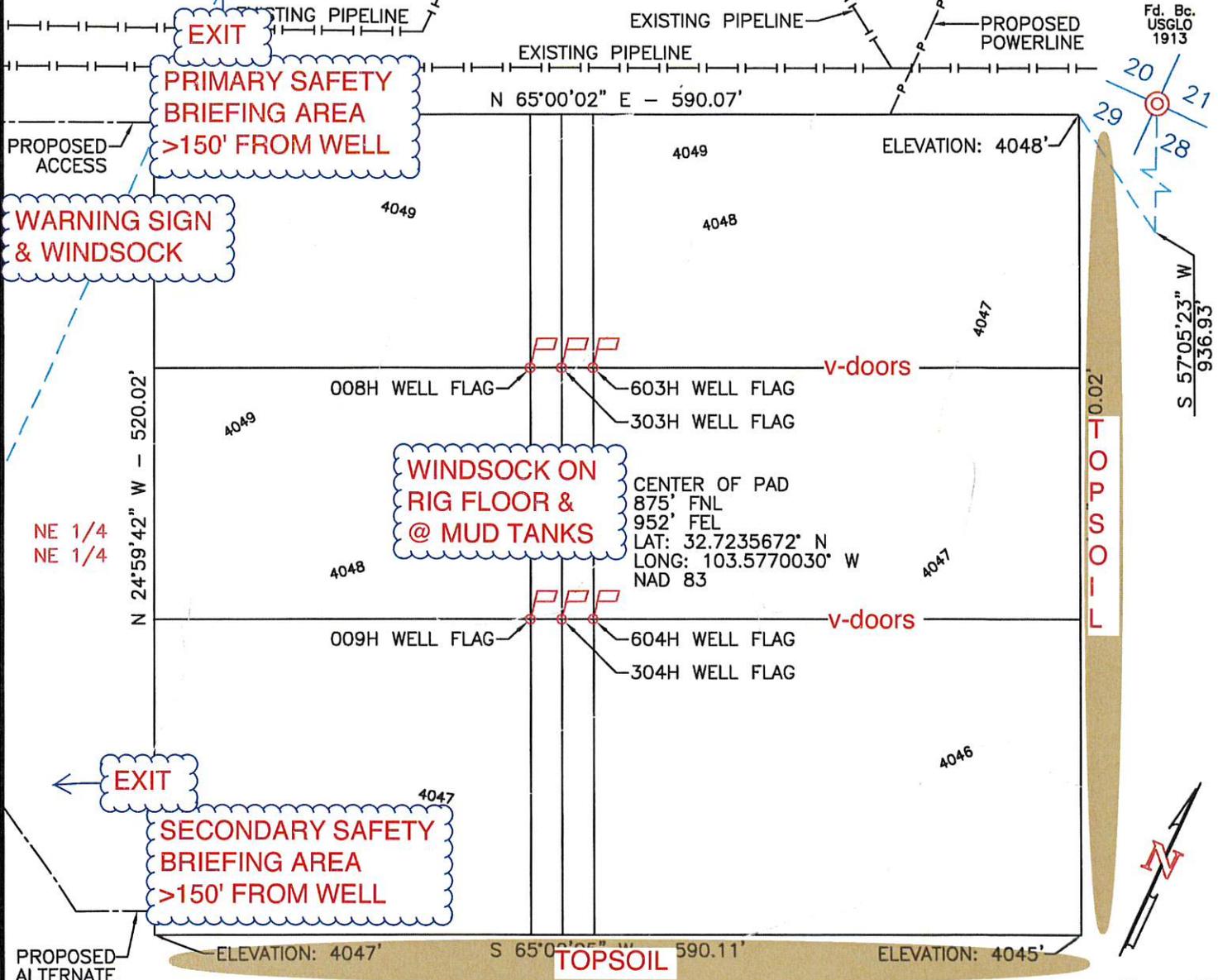


# AVANT OPERATING, LLC

DAYTONA 29 FED COM PAD 2  
SEC. 29, T-18-S, R-34-E, N.M.P.M.,

HIGHEST GROUND TO NORTH

Before digging call for utility line location!



EXIT  
PRIMARY SAFETY BRIEFING AREA  
>150' FROM WELL

WARNING SIGN & WINDSOCK

WINDSOCK ON RIG FLOOR & @ MUD TANKS

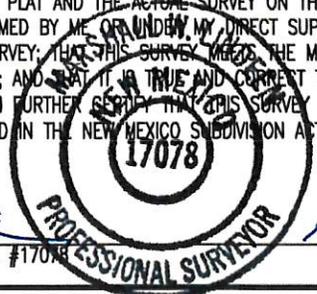
EXIT  
SECONDARY SAFETY BRIEFING AREA  
>150' FROM WELL

WARNING SIGN & WINDSOCK

& COORDINATES SHOWN ARE BASED UPON THE NEW MEXICO SYSTEM, EAST ZONE, NAD 83, IN U.S. SURVEY FEET.

- CONTRACTOR SHALL CONTACT "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINE OR CABLES ON WELL PAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
- UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

I, MARSHALL W. LINDEEN, NEW MEXICO PROFESSIONAL SURVEYOR NO. 17078, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT.



MARSHALL W. LINDEEN P.S. #17078  
DATE 11-15-22

WELL FLAG	FNL	FEL
603H	779'	1,007'
303H	788'	
008H	796'	
604H	925'	
304H	933'	
009H	941'	977'

PREVAILING WINDS BLOW FROM SOUTH

OWNER	SQ. FT.	ACRES
BUREAU OF LAND MANAGEMENT	306,859	7.045

**United Field Services Inc.**  
P.O. Box 3651  
Farmington, NM 87499  
Office: (505) 334-0408

DWG. No. : 11710-Pad 2	Revision:
Drawn by: K.S.	Date Drawn: 10/21/22
Surveyed: 10/18/22	App by: M.W.L.
	Rev. Date:
	Sheet: 1

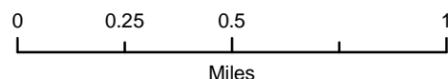
# Avant Operating, LLC

Daytona 29 Fed Com  
Pad 2  
H2S Contingency Plan:  
Radius Map

Section 29, Township 18S, Range 34E  
Lea County, New Mexico



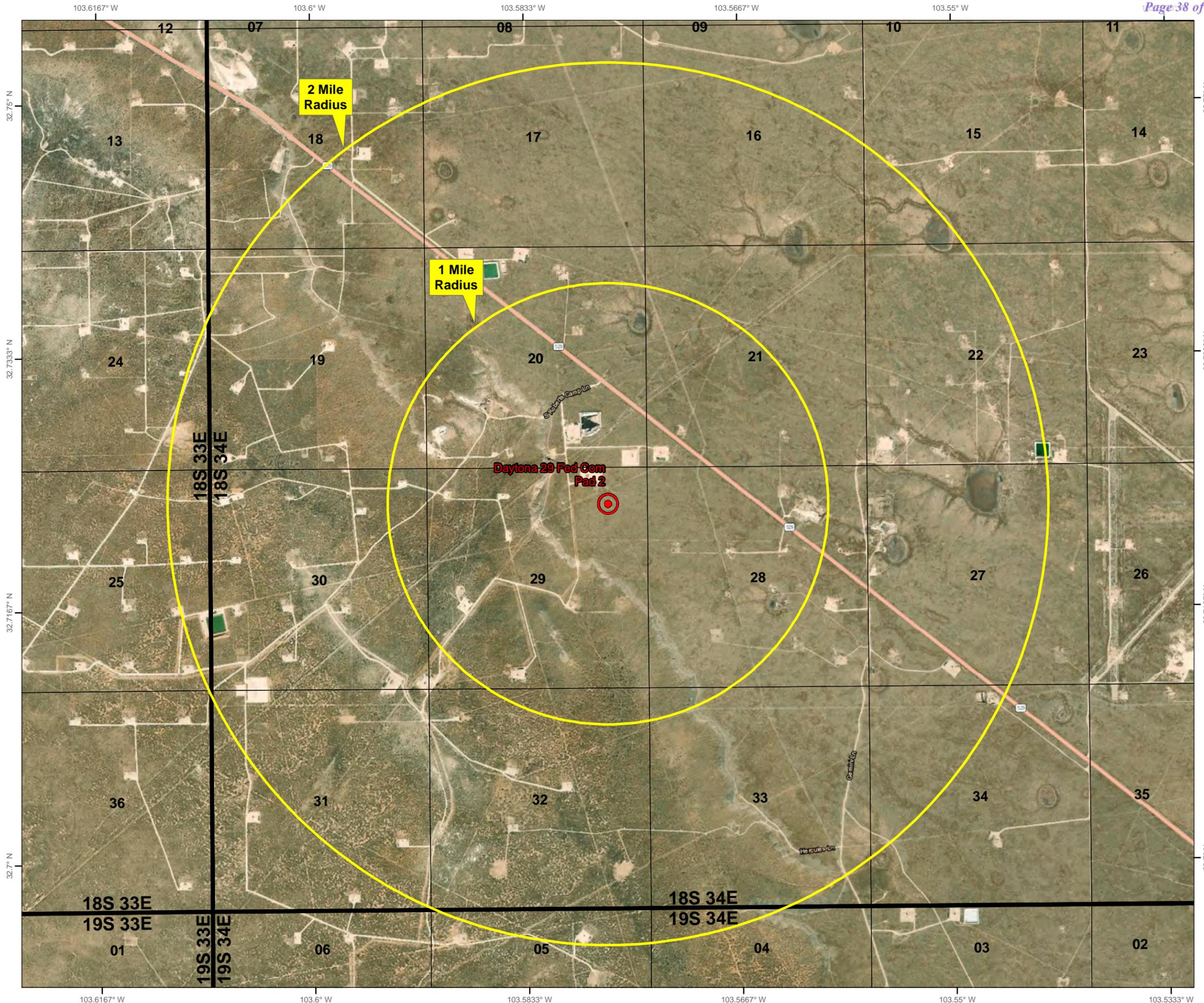
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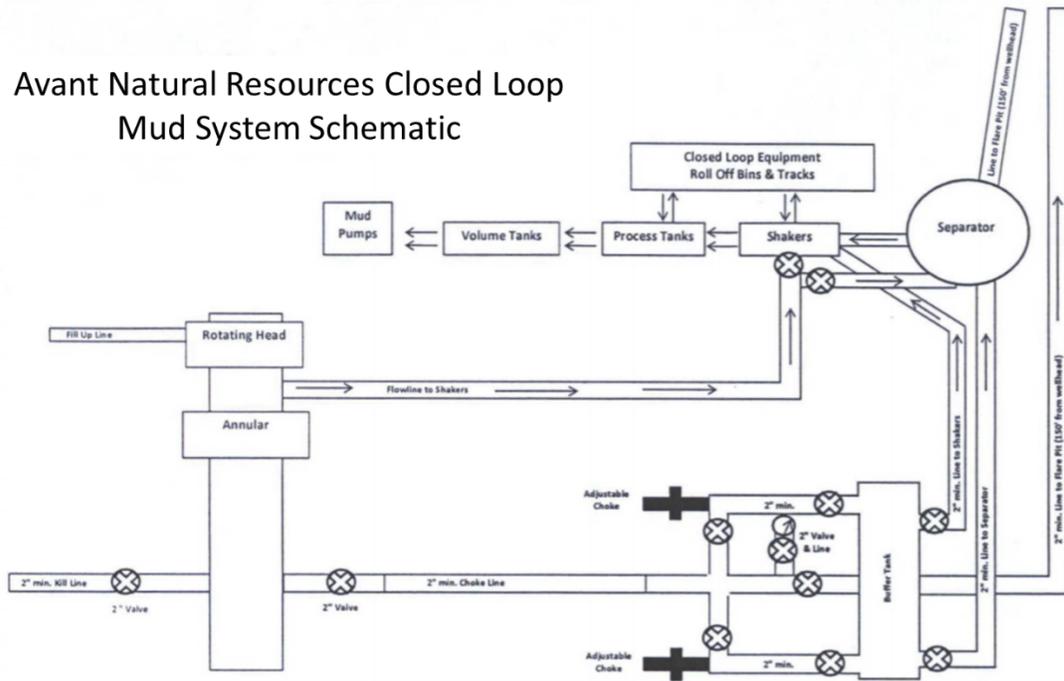
NAD 1983 New Mexico State Plane East  
FIPS 3001 Feet



Prepared by Permits West, Inc., March 29, 2023  
for Avant Operating, LLC



### Avant Natural Resources Closed Loop Mud System Schematic



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 330131

**CONDITIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 330131
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/16/2024
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	4/16/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/16/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	4/16/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	4/16/2024