Form 3160-3 (June 2015)				FORM A	. 1004-01	137
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR			Expires: Jar 5. Lease Serial No. NMNM128836	nuary 31,	2018
APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee of	or Tribe N	Name
	REENTER			7. If Unit or CA Agre	eement, N	Name and No.
	Other	7 v v: 1 z		8. Lease Name and V	Vell No.	
1c. Type of Completion: Hydraulic Fracturing	lingle Zone	Multiple Zone		GOLDEN TEE 31 F	ED CO	
2. Name of Operator AVANT OPERATING LLC [330396]				9. API Well No. 30	0-025-	-49390
3a. Address 1515 WYNKOOP STREET, SUITE 700, DENVER, CO 80		o. (include area code 045	e)	10. Field and Pool, o Antelope Ridge/Bor	-	
4. Location of Well (Report location clearly and in accordance	-	1		11. Sec., T. R. M. or		Survey or Area
At surface NWNE / 400 FNL / 1514 FEL / LAT 32.354			4050050	SEC 31/T22S/R35E	=/INIVIP	
At proposed prod. zone SWNE / 2540 FNL / 2178 FEL / 14. Distance in miles and direction from nearest town or post of 15 miles		306 / LONG - 103.4	4052252	12. County or Parish LEA		13. State
15. Distance from proposed*	16. No of ac	res in lease	17. Spacii	ng Unit dedicated to th	is well	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)			240.15			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed	d Depth / 18868 feet		BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	1	mate date work will	start*	23. Estimated duration	on	
3474 feet	03/01/2021 24. Attac	hmanta		60 days		
The following, completed in accordance with the requirements of			, and the H	Iydraulic Fracturing ru	ıle per 43	CFR 3162.3-3
<ol> <li>(as applicable)</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office</li> </ol>		Item 20 above). 5. Operator certific	ation.	s unless covered by an		`
25. Signature (Electronic Submission)		(Printed/Typed) NWOOD / Ph: (72	0) 746-50		Date 02/15/2	021
Title President			-,			
Approved by (Signature)	<b>I</b>	(Printed/Typed)			Date	
(Electronic Submission) Title	Office	Layton / Ph: (575)	234-5959		09/09/2	021
Assistant Field Manager Lands & Minerals		ad Field Office				
Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to the	nose rights	in the subject lease wh	nich woul	d entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements					ny depart	ment or agency
NGMP Rec 09/13/2021	1917		-010	09	17/21	

SL

(Continued on page 2)

APPROVED WITH CONDITIONS Released to Imaging: 9/17/2021 12:43:27 PM Approval Date: 09/09/2021

\*(Instructions on page 2)

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

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) 334-6170
DISTRICT IV

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 478-3480 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

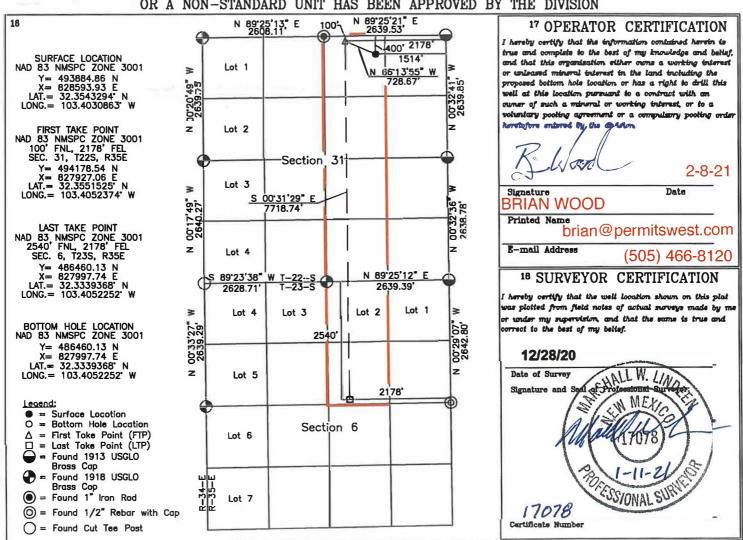
☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-49390	2205	ANTELOPE RIDGE; BONE S	PRING, NORTH						
Property Code	Well Number								
331355	604H								
OGRID No.	*Oper	rator Name	• Elevation						
330396	Avant Op	Avant Operating, LLC							
	<sup>10</sup> Surfa	ce Location							
or lot no.   Section   Township	Range   Lot Idn   Feet from t	he   North/South line   Feet from the   East/	Test line   County						

31 22 S 35 E 400 North 1514 B East Lea <sup>11</sup> Bottom Hole Location If Different From Surface North/South line Range Lot Idn Feet from the Feet from the East/West line UL or lot no. Section Township 2540 23 S 35 E North 2178 East 6 G Lea 14 Consolidation Code Joint or Infill 18 Order No. Dedicated Acres C 240.15

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



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

Submit Electronically Via E-permitting

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

#### NATURAL GAS MANAGEMENT PLAN

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

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

I. Operator: Avant (	Operating, LLC	OGRID:330396		Date: 09/13	3/2021	
II. Type: ⊠ Origina If Other, please descr		due to 🗆 19.15.27.9	9.D(6)(a) NMA(	C □ 19.15.27.9.D	(6)(b) NMAC □ (	Other.
III. Well(s): Provide be recompleted from					wells proposed to	be drilled or proposed to
Well Name	Well Name API		Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Golden Tee 31 Fed Com 604H	30-025-49390	B-31-22S-35E	400 FNL; 1514 FEL	2,800	6,000	10,500
Golden Tee 31 Fed Com 605H		B-31-22S-35E	400 FNL; 1484 FEL	2,800	6,000	10,500
Golden Tee 31 Fed Com 606H		B-31-22S-35E	400 FNL; 1454 FEL	2,800	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	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Golden Tee 31 Fed	30-025-493	3/23/2023	4/8/2023	5/12/2023	6/1/2023	6/5/2023
Com 604H	30-023-493	90				
Golden Tee 31 Fed		3/23/2023	4/23/2023	5/12/2023	6/1/2023	6/5/2023
Com 605H						
Golden Tee 31 Fed		3/23/2023	5/8/2023	5/12/2023	6/1/2023	6/5/2023
Com 606H						

- VI. Separation Equipment: 

  Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational 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.

<b>Section</b>	2 –	En	har	ced	Plan
EFFE	CTIV	E A	PRII	1, 20	22

			E APRIL 1, 2022	
	2022, an operator the complete this section		with its statewide natural ga	as capture requirement for the applicable
	es that it is not requite for the applicable re		tion because Operator is in o	compliance with its statewide natural gas
IX. Anticipated Na	itural Gas Producti	on:		
W	Well		Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NC	GGS):		·
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation	ns to the existing or p	planned interconnect of t		ticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected.
		thering system  will to the date of first product		ather 100% of the anticipated natural gas
				ed to the same segment, or portion, of the line pressure caused by the new well(s).
☐ Attach Operator'	s plan to manage pro	oduction in response to the	ne increased line pressure.	
Section 2 as provide	ed in Paragraph (2) of		27.9 NMAC, and attaches a f	A 1978 for the information provided in ull description of the specific information

(h)

(i)

## Section 3 - Certifications Effective May 25, 2021

Operator certifies that, af	ter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of the	o connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport ne anticipated volume of natural gas produced from the well(s) commencing on the date of first production, arrent and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the an into account the current a	ble to connect to a natural gas gathering system in the general area with sufficient capacity to transport one ticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.  ox, Operator will select one of the following:
Well Shut-In. □ Operato D of 19.15.27.9 NMAC;	r will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or
   Venting and Flaring Pla	n. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential
	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; reinjection for temporary storage;
(f) (g)	reinjection for enhanced oil recovery;
(¥)	romponon for ounanious off focusory,

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

fuel cell production; and

- (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.

I certify that, 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: John Harper
Title:  Parall Address:  The A
E-mail Address: Joha @ Avantos. com
Date: 9/13/21  Phone: 720-746-5045
Phone: 720-746-5045
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

#### 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.

### **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.
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  - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, Avant will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. Avant will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
  - D. 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 repo1ted appropriately.
  - E. Avant will comply with the performance standards requirements and provisions listed in 19.15.27.8 (I) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. Avant will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
  - 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, or beneficially used during production operations, will be measured, or estimated. Avant will install equipment to measure



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

# **Drilling Plan Data Report**

09/10/2021

**APD ID:** 10400069201

Operator Name: AVANT OPERATING LLC

Well Name: GOLDEN TEE 31 FED COM

Well Type: OIL WELL

Submission Date: 02/15/2021

Highlighted data reflects the most recent changes

**Show Final Text** 

Well Number: 604H

Well Work Type: Drill

## **Section 1 - Geologic Formations**

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1564567	QUATERNARY	3474	0	0	OTHER : Caliche	USEABLE WATER	N
1564561	RUSTLER ANHYDRITE	1650	1824	1825	ANHYDRITE	NONE	N
1564562	TOP SALT	1284	2190	2194	SALT	NONE	N
1564556	BOTTOM SALT	-576	4050	4081	SALT	NONE	N
1564557	SALADO	-745	4219	4253	SALT	NONE	N
1564564	CAPITAN REEF	-1314	4788	4831	LIMESTONE	USEABLE WATER	N
1564552	CHERRY CANYON	-2455	5929	5988	SANDSTONE	NATURAL GAS, OIL	N
1564553	BRUSHY CANYON	-3774	7248	7318	SANDSTONE	NATURAL GAS, OIL	N
1564560	BONE SPRING LIME	-5242	8716	8786	LIMESTONE	NATURAL GAS, OIL	N
1564565	AVALON SAND	-5323	8797	8869	LIMESTONE, OTHER :	NATURAL GAS, OIL	N
1564568	AVALON SAND	-5578	9052	9122	LIMESTONE, OTHER :	NATURAL GAS, OIL	N
1564566	BONE SPRING 1ST	-6257	9731	9801	SANDSTONE	NATURAL GAS, OIL	N
1564569	BONE SPRING 2ND	-6783	10257	10327	SANDSTONE	NATURAL GAS, OIL	N
1564554	BONE SPRING 3RD	-7097	10571	10641	OTHER : Carbonate	NATURAL GAS, OIL	Y

### **Section 2 - Blowout Prevention**

Well Name: GOLDEN TEE 31 FED COM Well Number: 604H

Pressure Rating (PSI): 5M Rating Depth: 12000

**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.

Requesting 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 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\_604H\_Choke\_20210215142817.pdf

#### **BOP Diagram Attachment:**

GoldenTee\_604H\_BOP\_20210215142825.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	1875	3474	1599	1875	J-55	54.5	ST&C	_	1.12 5	DRY	1.6	DRY	1.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4000	0	3969	3449	-495	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	3969	5773	-495	-2299	1830	HCK -55	40	LT&C	1.12 5	1.12 5	DRY	1.6	DRY	1.6

Well Name: GOLDEN TEE 31 FED COM

Well Number: 604H

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
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	18868	0	11270	3449	-7796	18868	P- 110	20	BUTT	_	1.12 5	DRY	1.6	DRY	1.6

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

GoldenTee\_Casing\_Design\_Assumptions\_20210215142907.pdf

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

GoldenTee\_Casing\_Design\_Assumptions\_20210215142932.pdf

Well Name: GOLDEN TEE 31 FED COM Well Number: 604H

#### **Casing Attachments**

Casing ID: 3

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

GoldenTee\_Casing\_Design\_Assumptions\_20210215142957.pdf

Casing ID: 4

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $Golden Tee\_Casing\_Design\_Assumptions\_20210215143019.pdf$ 

## **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	345	1.33	14.8	458	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

Well Name: GOLDEN TEE 31 FED COM

Well Number: 604H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
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	1886 8	555	3.74	10.5	2075	25	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
PRODUCTION	Tail		4738	1886 8	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

Well Name: GOLDEN TEE 31 FED COM

Well Number: 604H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	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	1886 8	OIL-BASED MUD	8.8	9.2							

## **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: 5274 Anticipated Surface Pressure: 2794

Anticipated Bottom Hole Temperature(F): 170

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\_604H\_H2S\_Plan\_20210215143441.pdf

Well Name: GOLDEN TEE 31 FED COM Well Number: 604H

#### **Section 8 - Other Information**

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

GoldenTee\_604H\_Horizontal\_Plan\_20210215143451.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\_604H\_Anti\_Collision\_Report\_20210215143514.pdf

Speedhead\_Specs\_20210215143522.pdf

Closed\_Loop\_20210215143527.pdf

CoFlex\_Certs\_20210729125626.pdf

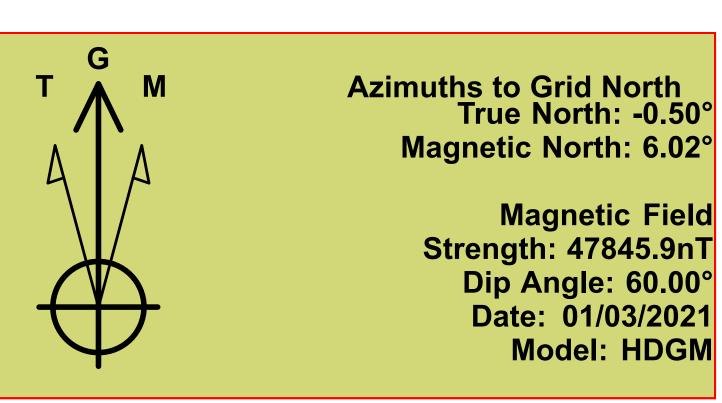
GoldenTee\_604H\_Drill\_Plan\_20210729125646.pdf

GoldenTee\_Casing\_Procedures\_20210729125704.pdf

#### Other Variance attachment:

Casing Cementing Variance Request 20210729125719.pdf



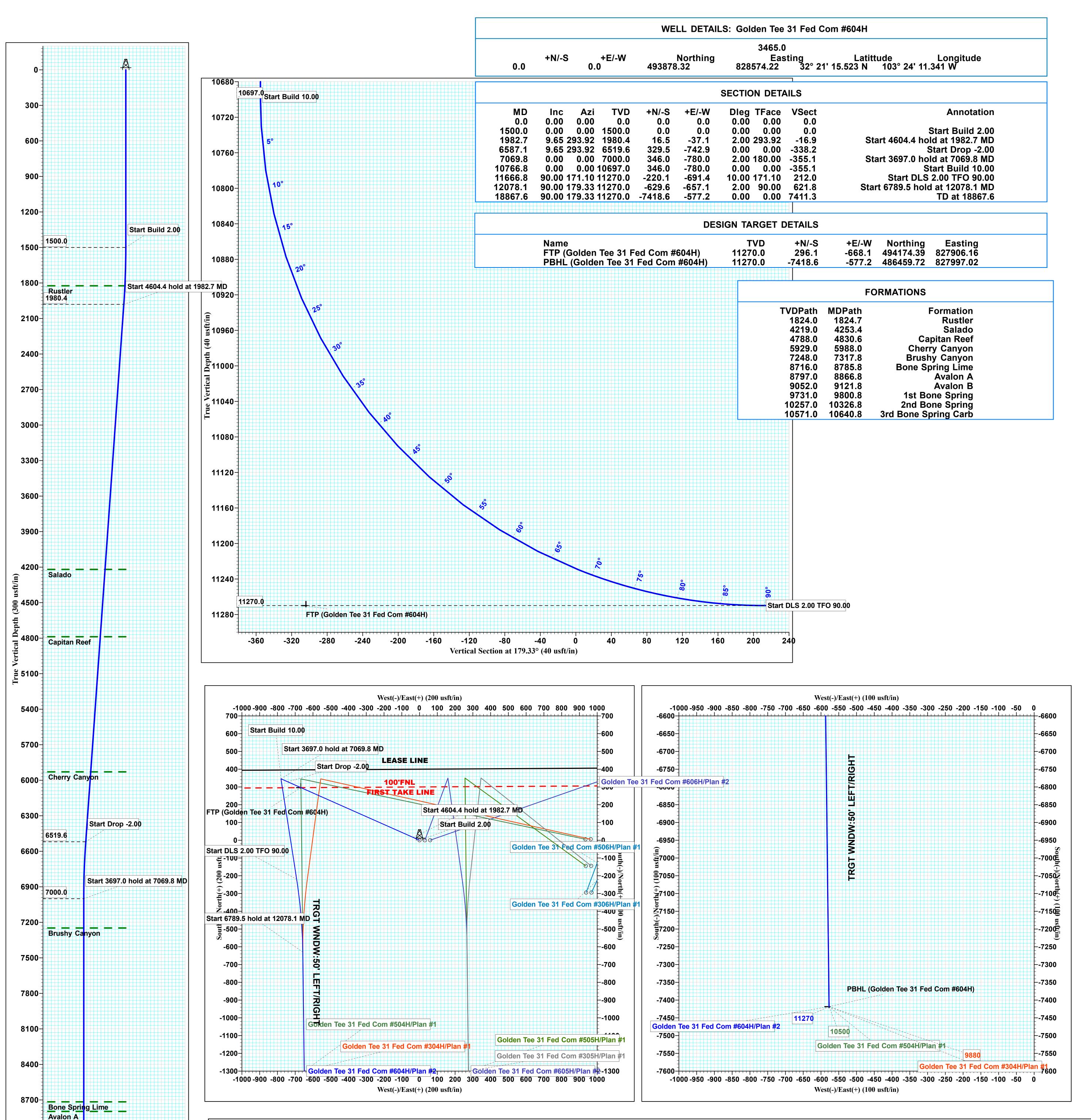


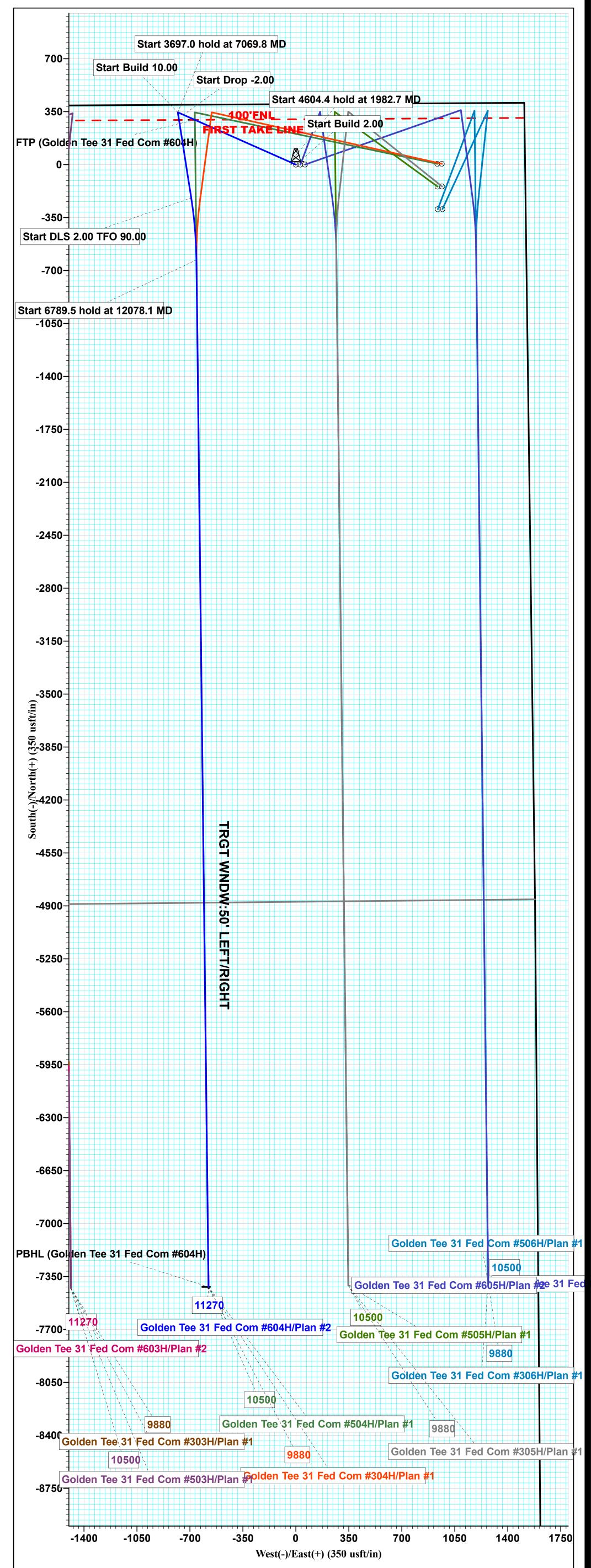
To convert a Magnetic Direction to a Grid Direction, Add 6.02°

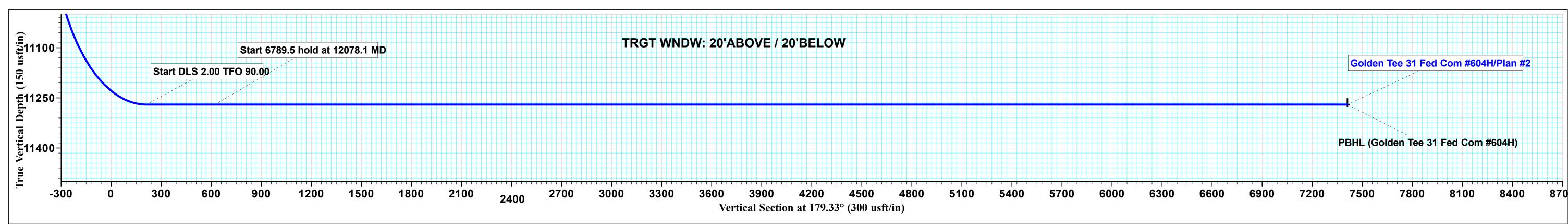
Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H
Wellbore: OWB
Design: Plan #2
Lat: 32° 21' 15.523 N

Lat: 32° 21' 15.523 N Long: 103° 24' 11.341 W Pad GL: 3465.0 KB: KB @ 3490.0usft









Avalon B

Vertical Section at 179.33° (300 usft/in)

9300-





Well:

#### Intrepid Planning Report



EDM 5000.15 Single User Db Database: Company: **Avant Natural Resources** Project: Lea County, NM (NAD 83 NME) Site:

(Golden Tee) Sec-31\_T-22-S\_R-35-E Golden Tee 31 Fed Com #604H

Wellbore: **OWB** Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Golden Tee 31 Fed Com #604H

KB @ 3490.0usft KB @ 3490.0usft

Grid

Minimum Curvature

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

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site (Golden Tee) Sec-31\_T-22-S\_R-35-E

Northing: 494,078.21 usft 32° 21' 17.720 N Site Position: Latitude: 103° 24' 41.253 W From: Мар Easting: 826,006.49 usft Longitude: **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.49°

Well Golden Tee 31 Fed Com #604H

-199.9 usft 493.878.32 usft 32° 21' 15.523 N **Well Position** +N/-S Northing: Latitude: 2,567.7 usft 828,574.22 usft 103° 24' 11.341 W +E/-W Easting: Longitude:

**Position Uncertainty** 0.0 usft Wellhead Elevation: Ground Level: 3,465.0 usft

**OWB** Wellbore

Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) **HDGM** 01/03/21 6.52 60.00 47.845.94655714

Design Plan #2

**Audit Notes:** 

Version: Phase: **PLAN** Tie On Depth: 0.0

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction

(usft) (usft) (usft) (°) 0.0 0.0 0.0 179.33

**Plan Survey Tool Program** Date 01/05/21

**Depth From Depth To** 

(usft)

(usft) Survey (Wellbore) **Tool Name** Remarks

0.0 MWD 18,866.6 Plan #2 (OWB)

OWSG MWD - Standard

**Plan Sections** Vertical Build Measured Dogleg Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (°) (°) (°) Target 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0.00 0.00 1,500.0 0.00 0.00 1,500.0 0.0 0.0 0.00 0.00 0.00 0.00 1,982.7 9.65 293.92 1,980.4 16.5 -37.12.00 2.00 0.00 293.92 6.587.1 9.65 293.92 6.519.6 329.5 -742.90.00 0.00 0.00 0.00 7,069.8 0.00 0.00 7,000.0 346.0 -780.0 2.00 -2.00 0.00 180.00 0.00 10,766.8 0.00 0.00 10,697.0 346.0 -780.0 0.00 0.00 0.00 -220.1 10.00 0.00 11,666.8 90.00 171.10 11,270.0 -691.4 10.00 171.10 12,078.1 90.00 179.33 11,270.0 -629.6 -657.12.00 0.00 2.00 18,867.6 90.00 179.33 11,270.0 -7,418.6-577.2 0.00 0.00 0.00 0.00 PBHL (Golden Tee





Database: EDM 5000.15 Single User Db
Company: Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H

Wellbore: OWB
Design: Plan #2

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

North Reference: Survey Calculation Method: Well Golden Tee 31 Fed Com #604H KB @ 3490.0usft

KB @ 3490.0usft Grid Minimum Curvature

_										
Planned 9	Survey									
	easured 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 Start Build	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,600.0	2.00	293.92	1,600.0	0.7	-1.6	-0.7	2.00	2.00	0.00
	1,700.0	4.00	293.92	1,699.8	2.8	-6.4	-2.9	2.00	2.00	0.00
	1,800.0	6.00	293.92	1,799.5	6.4	-14.3	-6.5	2.00	2.00	0.00
	1,824.7	6.49	293.92	1,824.0	7.5	-16.8	-7.6	2.00	2.00	0.00
R	Rustler									
	1,900.0	8.00	293.92	1,898.7	11.3	-25.5	-11.6	2.00	2.00	0.00
	1,982.7	9.65	293.92	1,980.4	16.5	-37.1	-16.9	2.00	2.00	0.00
S		4 hold at 1982								
	2,000.0	9.65	293.92	1,997.5	17.6	-39.7	-18.1	0.00	0.00	0.00
	2,100.0	9.65	293.92	2,096.1	24.4	-55.1	-25.1	0.00	0.00	0.00
	2,200.0	9.65	293.92	2,194.6	31.2	-70.4	-32.0	0.00	0.00	0.00
	2,300.0	9.65	293.92	2,293.2	38.0	-85.7	-39.0	0.00	0.00	0.00
	2,400.0	9.65	293.92	2,391.8	44.8	-101.1	-46.0	0.00	0.00	0.00
	2,500.0	9.65	293.92	2,490.4	51.6	-116.4	-53.0	0.00	0.00	0.00
	2,600.0	9.65	293.92	2,589.0	58.4	-131.7	-60.0	0.00	0.00	0.00
	2,700.0	9.65	293.92	2,687.6	65.2	-147.0	-66.9	0.00	0.00	0.00
	2,800.0	9.65	293.92	2,786.1	72.0	-162.4	-73.9	0.00	0.00	0.00
	2,900.0	9.65	293.92	2,884.7	78.8	-177.7	-80.9	0.00	0.00	0.00
	3,000.0	9.65	293.92	2,983.3	85.6	-193.0	-87.9	0.00	0.00	0.00
	3,100.0	9.65	293.92	3,081.9	92.4	-208.4	-94.9	0.00	0.00	0.00
	3,200.0	9.65	293.92	3,180.5	99.2	-223.7	-101.8	0.00	0.00	0.00
	3,300.0	9.65	293.92	3,279.1	106.0	-239.0	-108.8	0.00	0.00	0.00
	3,400.0	9.65	293.92	3,377.6	112.8	-254.4	-115.8	0.00	0.00	0.00
	3,500.0	9.65	293.92	3,476.2	119.6	-269.7	-122.8	0.00	0.00	0.00
	3,600.0	9.65	293.92	3,574.8	126.4	-285.0	-129.8	0.00	0.00	0.00
	3,700.0	9.65	293.92	3,673.4	133.2	-300.3	-136.7	0.00	0.00	0.00
	3,800.0	9.65	293.92	3,772.0	140.0	-315.7	-143.7	0.00	0.00	0.00
	3,900.0	9.65	293.92	3,870.6	146.8	-331.0	-150.7	0.00	0.00	0.00
	4,000.0	9.65	293.92	3,969.1	153.6	-346.3	-157.7	0.00	0.00	0.00
	4,100.0	9.65	293.92	4,067.7	160.4	-361.7	-164.6	0.00	0.00	0.00
	4,200.0	9.65	293.92	4,166.3	167.2	-377.0	-171.6	0.00	0.00	0.00
	4,253.4	9.65	293.92	4,219.0	170.9	-385.2	-175.4	0.00	0.00	0.00
S	Salado									
	4,300.0	9.65	293.92	4,264.9	174.0	-392.3	-178.6	0.00	0.00	0.00
	4,400.0	9.65	293.92	4,363.5	180.8	-407.6	-185.6	0.00	0.00	0.00
	4,500.0	9.65	293.92	4,462.1	187.6	-423.0	-192.6	0.00	0.00	0.00
	4,600.0	9.65	293.92	4,560.7	194.4	-438.3	-199.5	0.00	0.00	0.00





Database: EDM 5000.15 Single User Db
Company: Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H

Wellbore: OWB
Design: Plan #2

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

**Survey Calculation Method:** 

KB @ 3490.0usft Grid Minimum Curvature

KB @ 3490.0usft

Well Golden Tee 31 Fed Com #604H

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)
4,700.0	9.65	293.92	4,659.2	201.2	-453.6	-206.5	0.00	0.00	0.00
4,800.0	9.65	293.92	4,757.8	208.0	-469.0	-213.5	0.00	0.00	0.00
4,830.6	9.65	293.92	4,788.0	210.1	-473.7	-215.6	0.00	0.00	0.00
<b>Capitan Red</b> 4,900.0 5,000.0	9.65 9.65	293.92 293.92	4,856.4 4,955.0	214.8 221.6	-484.3 -499.6	-220.5 -227.5	0.00 0.00	0.00 0.00	0.00 0.00
5,100.0	9.65	293.92	5,053.6	228.4	-515.0	-234.4	0.00	0.00	0.00
5,200.0	9.65	293.92	5,152.2	235.2	-530.3	-241.4	0.00	0.00	0.00
5,300.0	9.65	293.92	5,250.7	242.0	-545.6	-248.4	0.00	0.00	0.00
5,400.0	9.65	293.92	5,349.3	248.8	-560.9	-255.4	0.00	0.00	0.00
5,500.0	9.65	293.92	5,447.9	255.6	-576.3	-262.3	0.00	0.00	0.00
5,600.0	9.65	293.92	5,546.5	262.4	-591.6	-269.3	0.00	0.00	0.00
5,700.0	9.65	293.92	5,645.1	269.2	-606.9	-276.3	0.00	0.00	0.00
5,800.0	9.65	293.92	5,743.7	276.0	-622.3	-283.3	0.00	0.00	0.00
5,900.0	9.65	293.92	5,842.2	282.8	-637.6	-290.3	0.00	0.00	0.00
5,988.0	9.65	293.92	5,929.0	288.8	-651.1	-296.4	0.00	0.00	0.00
6,000.0	9.65	293.92	5,940.8	289.6	-652.9	-297.2	0.00	0.00	0.00
6,100.0	9.65	293.92	6,039.4	296.4	-668.2	-304.2	0.00	0.00	0.00
6,200.0	9.65	293.92	6,138.0	303.2	-683.6	-311.2	0.00	0.00	0.00
6,300.0	9.65	293.92	6,236.6	310.0	-698.9	-318.2	0.00	0.00	0.00
6,400.0	9.65	293.92	6,335.2	316.8	-714.2	-325.2	0.00	0.00	0.00
6,500.0 6,587.1 <b>Start Drop</b> -	9.65 9.65 -2.00	293.92 293.92	6,433.7 6,519.6	323.6 329.5	-729.6 -742.9	-332.1 -338.2	0.00 0.00	0.00 0.00	0.00 0.00
6,600.0	9.40	293.92	6,532.3	330.4	-744.9	-339.1	2.00	-2.00	0.00
6,700.0	7.40	293.92	6,631.3	336.3	-758.2	-345.2	2.00	-2.00	0.00
6,800.0	5.40	293.92	6,730.6	340.9	-768.4	-349.8	2.00	-2.00	0.00
6,900.0	3.40	293.92	6,830.3	344.0	-775.4	-353.0	2.00	-2.00	0.00
7,000.0	1.40	293.92	6,930.2	345.7	-779.2	-354.7	2.00	-2.00	0.00
7,069.8	0.00	0.00	7,000.0	346.0	-780.0	-355.1	2.00	-2.00	0.00
	) hold at 7069		7,000,0	0.40.0	700.0	055.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,030.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,130.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,230.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,317.8	0.00	0.00	7,248.0	346.0	-780.0	-355.1	0.00	0.00	0.00
7,400.0		0.00	7,330.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,500.0		0.00	7,430.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,600.0		0.00	7,530.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,630.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,730.2	346.0	-780.0	-355.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,830.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,930.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,030.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,130.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,230.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,330.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,430.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,530.2	346.0	-780.0	-355.1	0.00	0.00	0.00
8,700.0 8,785.8 <b>Bone Sprin</b>	0.00 0.00 <b>g Lime</b>	0.00 0.00	8,630.2 8,716.0	346.0 346.0	-780.0 -780.0	-355.1 -355.1	0.00 0.00	0.00 0.00	0.00 0.00





Database: EDM 5000.15 Single User Db
Company: Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H

Wellbore: OWB
Design: Plan #2

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

**Survey Calculation Method:** 

KB @ 3490.0usft KB @ 3490.0usft Grid Minimum Curvature

Well Golden Tee 31 Fed Com #604H

esign:	Plan #2								
lanned 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)
8,800.0 8,866.8 <b>Avalon A</b>	0.00 0.00	0.00 0.00	8,730.2 8,797.0	346.0 346.0	-780.0 -780.0	-355.1 -355.1	0.00 0.00	0.00 0.00	0.00 0.00
8,900.0	0.00	0.00	8,830.2	346.0	-780.0	-355.1	0.00	0.00	0.00
9,000.0 9,100.0 9,121.8	0.00 0.00 0.00	0.00 0.00 0.00	8,930.2 9,030.2 9,052.0	346.0 346.0 346.0	-780.0 -780.0 -780.0	-355.1 -355.1 -355.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
<b>Avalon B</b> 9,200.0 9,300.0	0.00 0.00	0.00 0.00	9,130.2 9,230.2	346.0 346.0	-780.0 -780.0	-355.1 -355.1	0.00 0.00	0.00 0.00	0.00 0.00
9,400.0 9,500.0 9,600.0 9,700.0 9,800.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,330.2 9,430.2 9,530.2 9,630.2 9,730.2	346.0 346.0 346.0 346.0 346.0	-780.0 -780.0 -780.0 -780.0 -780.0	-355.1 -355.1 -355.1 -355.1 -355.1	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
9,800.8	0.00	0.00	9,731.0	346.0	-780.0	-355.1	0.00	0.00	0.00
1st Bone Sp 9,900.0 10,000.0 10,100.0 10,200.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9,830.2 9,930.2 10,030.2 10,130.2	346.0 346.0 346.0 346.0	-780.0 -780.0 -780.0 -780.0	-355.1 -355.1 -355.1 -355.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,300.0 10,326.8	0.00 0.00	0.00 0.00	10,230.2 10,257.0	346.0 346.0	-780.0 -780.0	-355.1 -355.1	0.00 0.00	0.00 0.00	0.00 0.00
2nd Bone S 10,400.0	pring 0.00	0.00	10,330.2	346.0	-780.0	-355.1	0.00	0.00	0.00
10,500.0 10,600.0	0.00 0.00 0.00	0.00 0.00 0.00	10,330.2 10,430.2 10,530.2	346.0 346.0	-780.0 -780.0 -780.0	-355.1 -355.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,640.8	0.00	0.00	10,571.0	346.0	-780.0	-355.1	0.00	0.00	0.00
3rd Bone Sp 10,700.0 10,766.8	0.00 0.00	0.00 0.00	10,630.2 10,697.0	346.0 346.0	-780.0 -780.0	-355.1 -355.1	0.00 0.00	0.00 0.00	0.00 0.00
Start Build			,						
10,800.0 10,850.0	3.32 8.32	171.10 171.10	10,730.2 10,779.9	345.0 340.0	-779.9 -779.1	-354.1 -349.1	10.00 10.00	10.00 10.00	0.00 0.00
10,900.0 10,950.0 11,000.0 11,050.0 11,100.0	13.32 18.32 23.32 28.32 33.32	171.10 171.10 171.10 171.10 171.10	10,829.0 10,877.1 10,923.8 10,968.8 11,011.8	330.8 317.3 299.7 278.2 252.9	-777.6 -775.5 -772.8 -769.4 -765.4	-339.8 -326.3 -308.8 -287.2 -261.9	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
11,150.0 11,200.0 11,250.0 11,300.0 11,350.0	38.32 43.32 48.32 53.32 58.32	171.10 171.10 171.10 171.10 171.10	11,052.3 11,090.1 11,124.9 11,156.5 11,184.6	224.0 191.7 156.3 118.0 77.2	-760.9 -755.8 -750.3 -744.3 -737.9	-232.9 -200.6 -165.1 -126.7 -85.8	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
11,400.0 11,450.0 11,500.0 11,550.0 11,600.0	63.32 68.32 73.32 78.32 83.32	171.10 171.10 171.10 171.10 171.10	11,209.0 11,229.4 11,245.9 11,258.1 11,266.1	34.1 -11.0 -57.6 -105.5 -154.2	-731.2 -724.1 -716.8 -709.3 -701.7	-42.6 2.5 49.2 97.2 146.0	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
11,650.0 11,666.8	88.32 90.00	171.10 171.10	11,269.7 11,270.0	-203.5 -220.1	-694.0 -691.4	195.4 212.0	10.00 10.00	10.00 10.00	0.00 0.00
Start DLS 2 11,700.0	. <b>00 TFO 90.00</b> 90.00	171.76	11,270.0	-252.9	-686.4	244.9	2.00	0.00	2.00





Database: EDM 5000.15 Single User Db
Company: Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H

Wellbore: OWB
Design: Plan #2

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

North Reference: Survey Calculation Method: Well Golden Tee 31 Fed Com #604H

KB @ 3490.0usft KB @ 3490.0usft Grid

Minimum Curvature

Neasured										
Depth   Inciliation   Azimuth   Cy   Cy   Custr)   Cust	Planned Survey									
11,900.0   90.00   175.76   11,270.0   -451.7   -684.7   443.9   2.00   0.00   2.00	Depth			Depth			Section	Rate	Rate	Rate
12,078.1   90.00   179.33   11,270.0   -629.6   -687.1   621.8   2.00   0.00   2.00	,									
Start 6789.5 hold at 12078.1 MD										
12,100 9 90.0 179.33 11,270 -661.5 -868.8 643.8 0.00 0.00 0.00 12,200 90.00 179.33 11,270 -851.5 -654.5 843.8 0.00 0.00 0.00 0.00 12,300 90.00 179.33 11,270 -851.5 -654.5 843.8 0.00 0.00 0.00 0.00 12,500 90.00 179.33 11,270 -1,051.5 -652.1 1,043.8 0.00 0.00 0.00 12,500 90.00 179.33 11,270 -1,051.5 -652.1 1,043.8 0.00 0.00 0.00 12,700 90.00 179.33 11,270 -1,151.5 -650.9 1,143.8 0.00 0.00 0.00 12,700 90.00 179.33 11,270 -1,251.5 -650.9 1,143.8 0.00 0.00 0.00 0.00 12,700 90.00 179.33 11,270 -1,251.5 -648.6 1,343.8 0.00 0.00 0.00 0.00 12,500 90.00 179.33 11,270 -1,251.5 -648.6 1,343.8 0.00 0.00 0.00 0.00 13,000 90.00 179.33 11,270 -1,451.4 -644.2 1,543.8 0.00 0.00 0.00 0.00 13,000 90.00 179.33 11,270 -1,551.4 -646.2 1,543.8 0.00 0.00 0.00 0.00 13,000 90.00 179.33 11,270 -1,551.4 -645.0 1,643.8 0.00 0.00 0.00 13,300 90.00 179.33 11,270 -1,751.4 -643.9 1,743.8 0.00 0.00 0.00 13,300 90.00 179.33 11,270 -1,751.4 -643.9 1,743.8 0.00 0.00 0.00 13,300 90.00 179.33 11,270 -1,751.4 -643.9 1,743.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -1,551.4 -643.7 1,433.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -643.7 1,433.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -643.5 1,433.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -643.5 1,433.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -643.5 1,433.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -643.5 1,433.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -643.5 2,438.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -636.8 2,343.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -636.8 2,343.8 0.00 0.00 0.00 13,500 90.00 179.33 11,270 -2,551.4 -636.8 2,343.8 0.00 0.00 0.00 14,000 90.00 179.33 11,270 -2,251.4 -636.8 2,343.8 0.00 0.00 0.00 14,000 90.00 179.33 11,270 -2,251.4 -636.8 2,343.8 0.00 0.00 0.00 14,000 90.00 179.33 11,270 -2,251.4 -636.8 2,343.8 0.00 0.00 0.00 14,000 90.00 179.33 11,270 -2,251.4 -636.8 2,343.8 0.00 0.00 0.00 14,000 90.00 179.33 11,270 -3,251.3 -626.2 3,243.8 0.00 0.00 0.00 0.00 15,500 90.00 179.33 11,270 -3,251.3 -	·			11,270.0	020.0	007.1	021.0	2.00	0.00	2.00
12,300.0 90.00 179.33 11,270.0 -851.5 -854.5 843.8 0.00 0.00 0.00 0.00 12,500.0 90.00 179.33 11,270.0 -1,651.5 -853.3 943.8 0.00 0.00 0.00 0.00 12,500.0 90.00 179.33 11,270.0 -1,651.5 -852.1 1,043.8 0.00 0.00 0.00 0.00 12,600.0 90.00 179.33 11,270.0 -1,251.5 -848.6 1,343.8 0.00 0.00 0.00 0.00 12,600.0 90.00 179.33 11,270.0 -1,251.5 -848.6 1,343.8 0.00 0.00 0.00 0.00 12,600.0 90.00 179.33 11,270.0 -1,251.5 -848.6 1,343.8 0.00 0.00 0.00 0.00 13,000.0 90.00 179.33 11,270.0 -1,251.5 -848.6 1,343.8 0.00 0.00 0.00 0.00 13,000.0 90.00 179.33 11,270.0 -1,551.4 -846.2 1,543.8 0.00 0.00 0.00 0.00 13,000.0 90.00 179.33 11,270.0 -1,551.4 -846.2 1,543.8 0.00 0.00 0.00 0.00 13,200.0 90.00 179.33 11,270.0 -1,551.4 -844.3 1,443.8 0.00 0.00 0.00 0.00 13,200.0 90.00 179.33 11,270.0 -1,551.4 -842.7 1,443.8 0.00 0.00 0.00 0.00 13,200.0 90.00 179.33 11,270.0 -1,551.4 -842.7 1,443.8 0.00 0.00 0.00 0.00 13,200.0 90.00 179.33 11,270.0 -1,551.4 -842.7 1,443.8 0.00 0.00 0.00 0.00 13,300.0 90.00 179.33 11,270.0 -2,551.4 -843.9 1,743.8 0.00 0.00 0.00 0.00 13,500.0 90.00 179.33 11,270.0 -2,551.4 -843.9 2,043.8 0.00 0.00 0.00 0.00 13,600.0 90.00 179.33 11,270.0 -2,551.4 -843.8 0.00 0.00 0.00 0.00 13,800.0 90.00 179.33 11,270.0 -2,551.4 -843.8 0.00 0.00 0.00 0.00 13,800.0 90.00 179.33 11,270.0 -2,551.4 -843.8 0.00 0.00 0.00 0.00 13,800.0 90.00 179.33 11,270.0 -2,551.4 -833.8 2,443.8 0.00 0.00 0.00 0.00 14,000.0 90.00 179.33 11,270.0 -2,551.4 -833.8 2,443.8 0.00 0.00 0.00 0.00 14,000.0 90.00 179.33 11,270.0 -2,551.4 -833.8 2,443.8 0.00 0.00 0.00 0.00 14,000.0 90.00 179.33 11,270.0 -2,551.4 -833.6 2,443.8 0.00 0.00 0.00 0.00 14,000.0 90.00 179.33 11,270.0 -2,551.4 -833.6 2,443.8 0.00 0.00 0.00 0.00 14,000.0 90.00 179.33 11,270.0 -3,551.3 -828.6 3,043.8 0.00 0.00 0.00 0.00 14,000.0 90.00 179.33 11,270.0 -3,551.3 -828.6 3,043.8 0.00 0.00 0.00 0.00 15,500.0 90.00 179.33 11,270.0 -3,551.3 -828.6 3,043.8 0.00 0.00 0.00 0.00 15,500.0 90.00 179.33 11,270.0 -3,551.3 -828.6 3,043.8 0.00 0.00 0.00 0.00 15,500.0 90.00 179.33 11,270.0 -4,551.2 -801.3 -843				11,270.0	-651.5	-656.8	643.8	0.00	0.00	0.00
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13,000.0   90.00   179.33   11,270.0   -1,551.4   -646.2   1,643.8   0.00   0.00   0.00   13,200.0   90.00   179.33   11,270.0   -1,751.4   -643.9   1,743.8   0.00   0.00   0.00   0.00   13,200.0   90.00   179.33   11,270.0   -1,751.4   -643.9   1,743.8   0.00   0.00   0.00   0.00   13,300.0   90.00   179.33   11,270.0   -1,851.4   -642.7   1,843.8   0.00   0.00   0.00   0.00   13,500.0   90.00   179.33   11,270.0   -2,051.4   -642.7   1,843.8   0.00   0.00   0.00   0.00   13,500.0   90.00   179.33   11,270.0   -2,051.4   -640.3   2,043.8   0.00   0.00   0.00   0.00   13,700.0   90.00   179.33   11,270.0   -2,251.4   -638.0   2,243.8   0.00   0.00   0.00   0.00   13,800.0   90.00   179.33   11,270.0   -2,251.4   -638.6   2,343.8   0.00   0.00   0.00   13,800.0   90.00   179.33   11,270.0   -2,251.4   -638.6   2,443.8   0.00   0.00   0.00   14,000.0   90.00   179.33   11,270.0   -2,551.4   -634.5   2,543.8   0.00   0.00   0.00   14,000.0   90.00   179.33   11,270.0   -2,551.4   -634.5   2,543.8   0.00   0.00   0.00   14,200.0   90.00   179.33   11,270.0   -2,551.4   -634.5   2,543.8   0.00   0.00   0.00   14,200.0   90.00   179.33   11,270.0   -2,551.4   -632.1   2,743.8   0.00   0.00   0.00   14,300.0   90.00   179.33   11,270.0   -2,551.4   -632.1   2,743.8   0.00   0.00   0.00   14,300.0   90.00   179.33   11,270.0   -2,551.3   -639.9   2,843.8   0.00   0.00   0.00   14,300.0   90.00   179.33   11,270.0   -2,551.3   -626.8   3,043.8   0.00   0.00   0.00   14,500.0   90.00   179.33   11,270.0   -2,551.3   -626.5   3,443.8   0.00   0.00   0.00   14,500.0   90.00   179.33   11,270.0   -3,551.3   -626.5   3,443.8   0.00   0.00   0.00   14,500.0   90.00   179.33   11,270.0   -3,551.3   -626.5   3,443.8   0.00   0.00   0.00   15,000.0   90.00   179.33   11,270.0   -3,551.3   -626.5   3,443.8   0.00   0.00   0.00   15,000.0   90.00   179.33   11,270.0   -3,551.3   -626.5   3,443.8   0.00   0.00   0.00   15,000.0   90.00   179.33   11,270.0   -3,551.3   -626.5   3,443.8   0.00   0.00   0.00   15,000.0   90.00   179	12,800.0	90.00	179.33	11,270.0	-1,351.5	-648.6	1,343.8	0.00	0.00	0.00
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13,800.0       90.00       179.33       11,270.0       -2,351.4       -636.8       2,343.8       0.00       0.00       0.00         13,900.0       90.00       179.33       11,270.0       -2,451.4       -634.5       2,443.8       0.00       0.00       0.00         14,100.0       90.00       179.33       11,270.0       -2,651.4       -633.3       2,643.8       0.00       0.00       0.00         14,200.0       90.00       179.33       11,270.0       -2,751.4       -632.1       2,743.8       0.00       0.00       0.00         14,300.0       90.00       179.33       11,270.0       -2,851.3       -632.1       2,743.8       0.00       0.00       0.00         14,400.0       90.00       179.33       11,270.0       -2,951.3       -629.8       2,943.8       0.00       0.00       0.00         14,500.0       90.00       179.33       11,270.0       -3,051.3       -628.6       3,043.8       0.00       0.00       0.00         14,500.0       90.00       179.33       11,270.0       -3,251.3       -628.6       3,043.8       0.00       0.00       0.00         14,700.0       90.00       179.33       11,270.0       -3,251.3 <td></td>										
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14,100.0       90.00       179.33       11,270.0       -2,651.4       -633.3       2,643.8       0.00       0.00       0.00         14,200.0       90.00       179.33       11,270.0       -2,751.4       -632.1       2,743.8       0.00       0.00       0.00         14,300.0       90.00       179.33       11,270.0       -2,851.3       -630.9       2,843.8       0.00       0.00       0.00         14,500.0       90.00       179.33       11,270.0       -3,051.3       -628.6       3,043.8       0.00       0.00       0.00         14,600.0       90.00       179.33       11,270.0       -3,151.3       -627.4       3,143.8       0.00       0.00       0.00         14,700.0       90.00       179.33       11,270.0       -3,251.3       -626.2       3,243.8       0.00       0.00       0.00         14,800.0       90.00       179.33       11,270.0       -3,351.3       -625.0       3,343.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,451.3       -623.9       3,443.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,651.3 <td></td>										
14,200.0       90.00       179.33       11,270.0       -2,751.4       -632.1       2,743.8       0.00       0.00       0.00         14,300.0       90.00       179.33       11,270.0       -2,851.3       -630.9       2,843.8       0.00       0.00       0.00         14,400.0       90.00       179.33       11,270.0       -3,051.3       -628.6       3,043.8       0.00       0.00       0.00         14,600.0       90.00       179.33       11,270.0       -3,151.3       -627.4       3,143.8       0.00       0.00       0.00         14,700.0       90.00       179.33       11,270.0       -3,251.3       -626.2       3,243.8       0.00       0.00       0.00         14,800.0       90.00       179.33       11,270.0       -3,351.3       -626.2       3,343.8       0.00       0.00       0.00         14,900.0       90.00       179.33       11,270.0       -3,451.3       -623.9       3,443.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,551.3       -622.7       3,543.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,651.3 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-634.5</td> <td></td> <td></td> <td></td> <td></td>						-634.5				
14,300.0       90.00       179.33       11,270.0       -2,851.3       -630.9       2,843.8       0.00       0.00       0.00         14,400.0       90.00       179.33       11,270.0       -2,951.3       -628.6       3,043.8       0.00       0.00       0.00         14,600.0       90.00       179.33       11,270.0       -3,151.3       -627.4       3,143.8       0.00       0.00       0.00         14,700.0       90.00       179.33       11,270.0       -3,251.3       -626.2       3,243.8       0.00       0.00       0.00         14,800.0       90.00       179.33       11,270.0       -3,351.3       -626.2       3,243.8       0.00       0.00       0.00         14,900.0       90.00       179.33       11,270.0       -3,351.3       -625.0       3,343.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,451.3       -622.7       3,543.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,651.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3 <td></td>										
14,500.0       90.00       179.33       11,270.0       -3,051.3       -628.6       3,043.8       0.00       0.00       0.00         14,600.0       90.00       179.33       11,270.0       -3,151.3       -627.4       3,143.8       0.00       0.00       0.00         14,700.0       90.00       179.33       11,270.0       -3,251.3       -626.2       3,243.8       0.00       0.00       0.00         14,900.0       90.00       179.33       11,270.0       -3,351.3       -625.0       3,343.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,551.3       -622.7       3,543.8       0.00       0.00       0.00         15,100.0       90.00       179.33       11,270.0       -3,551.3       -622.7       3,543.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -622.7       3,543.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,851.3       -612.5       3,843.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,951.3 <td></td>										
14,600.0       90.00       179.33       11,270.0       -3,151.3       -627.4       3,143.8       0.00       0.00       0.00         14,700.0       90.00       179.33       11,270.0       -3,251.3       -626.2       3,243.8       0.00       0.00       0.00         14,800.0       90.00       179.33       11,270.0       -3,351.3       -625.0       3,343.8       0.00       0.00       0.00         14,900.0       90.00       179.33       11,270.0       -3,451.3       -623.9       3,443.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,551.3       -622.7       3,543.8       0.00       0.00       0.00         15,100.0       90.00       179.33       11,270.0       -3,651.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -620.3       3,743.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3 <td></td> <td>90.00</td> <td>179.33</td> <td>11,270.0</td> <td>-2,951.3</td> <td>-629.8</td> <td>2,943.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>		90.00	179.33	11,270.0	-2,951.3	-629.8	2,943.8	0.00	0.00	0.00
14,700.0       90.00       179.33       11,270.0       -3,251.3       -626.2       3,243.8       0.00       0.00       0.00         14,800.0       90.00       179.33       11,270.0       -3,351.3       -625.0       3,343.8       0.00       0.00       0.00         14,900.0       90.00       179.33       11,270.0       -3,451.3       -623.9       3,443.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,551.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -620.3       3,743.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,051.3       -618.0       3,943.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3 <td></td>										
14,800.0       90.00       179.33       11,270.0       -3,351.3       -625.0       3,343.8       0.00       0.00       0.00         14,900.0       90.00       179.33       11,270.0       -3,451.3       -623.9       3,443.8       0.00       0.00       0.00         15,000.0       90.00       179.33       11,270.0       -3,651.3       -622.7       3,543.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,651.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,851.3       -621.5       3,643.8       0.00       0.00       0.00         15,300.0       90.00       179.33       11,270.0       -3,851.3       -619.2       3,843.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3       -618.0       3,943.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3 <td></td>										
15,000.0       90.00       179.33       11,270.0       -3,551.3       -622.7       3,543.8       0.00       0.00       0.00         15,100.0       90.00       179.33       11,270.0       -3,651.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -620.3       3,743.8       0.00       0.00       0.00         15,300.0       90.00       179.33       11,270.0       -3,851.3       -619.2       3,843.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3       -618.0       3,943.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,151.3       -616.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,351.2 <td></td>										
15,000.0       90.00       179.33       11,270.0       -3,551.3       -622.7       3,543.8       0.00       0.00       0.00         15,100.0       90.00       179.33       11,270.0       -3,651.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -620.3       3,743.8       0.00       0.00       0.00         15,300.0       90.00       179.33       11,270.0       -3,851.3       -619.2       3,843.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3       -616.8       4,043.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,151.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,351.2 <td>14,900.0</td> <td>90.00</td> <td>179.33</td> <td>11,270.0</td> <td>-3,451.3</td> <td>-623.9</td> <td>3,443.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14,900.0	90.00	179.33	11,270.0	-3,451.3	-623.9	3,443.8	0.00	0.00	0.00
15,100.0       90.00       179.33       11,270.0       -3,651.3       -621.5       3,643.8       0.00       0.00       0.00         15,200.0       90.00       179.33       11,270.0       -3,751.3       -620.3       3,743.8       0.00       0.00       0.00         15,300.0       90.00       179.33       11,270.0       -3,851.3       -619.2       3,843.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3       -616.8       4,043.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,151.3       -615.6       4,143.8       0.00       0.00       0.00         15,800.0       90.00       179.33       11,270.0       -4,251.3       -614.5       4,243.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,000.0       90.00       179.33       11,270.0       -4,551.2 <td>,</td> <td>90.00</td> <td>179.33</td> <td>11,270.0</td> <td>-3,551.3</td> <td>-622.7</td> <td>3,543.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	,	90.00	179.33	11,270.0	-3,551.3	-622.7	3,543.8	0.00	0.00	0.00
15,300.0       90.00       179.33       11,270.0       -3,851.3       -619.2       3,843.8       0.00       0.00       0.00         15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3       -616.8       4,043.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,151.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3       -614.5       4,243.8       0.00       0.00       0.00         15,800.0       90.00       179.33       11,270.0       -4,351.2       -613.3       4,343.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,100.0       90.00       179.33       11,270.0       -4,551.2       -610.9       4,543.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,651.2 <td></td> <td>90.00</td> <td>179.33</td> <td>11,270.0</td> <td></td> <td>-621.5</td> <td></td> <td></td> <td>0.00</td> <td>0.00</td>		90.00	179.33	11,270.0		-621.5			0.00	0.00
15,400.0       90.00       179.33       11,270.0       -3,951.3       -618.0       3,943.8       0.00       0.00       0.00         15,500.0       90.00       179.33       11,270.0       -4,051.3       -616.8       4,043.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,151.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3       -614.5       4,243.8       0.00       0.00       0.00         15,800.0       90.00       179.33       11,270.0       -4,351.2       -613.3       4,343.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,000.0       90.00       179.33       11,270.0       -4,551.2       -612.1       4,443.8       0.00       0.00       0.00         16,100.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,851.2 <td></td>										
15,500.0       90.00       179.33       11,270.0       -4,051.3       -616.8       4,043.8       0.00       0.00       0.00         15,600.0       90.00       179.33       11,270.0       -4,151.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3       -614.5       4,243.8       0.00       0.00       0.00         15,800.0       90.00       179.33       11,270.0       -4,351.2       -613.3       4,343.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,000.0       90.00       179.33       11,270.0       -4,551.2       -610.9       4,543.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,400.0       90.00       179.33       11,270.0       -5,051.2 <td>•</td> <td></td> <td></td> <td>•</td> <td>· ·</td> <td></td> <td>•</td> <td></td> <td></td> <td></td>	•			•	· ·		•			
15,600.0       90.00       179.33       11,270.0       -4,151.3       -615.6       4,143.8       0.00       0.00       0.00         15,700.0       90.00       179.33       11,270.0       -4,251.3       -614.5       4,243.8       0.00       0.00       0.00         15,800.0       90.00       179.33       11,270.0       -4,351.2       -613.3       4,343.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,000.0       90.00       179.33       11,270.0       -4,551.2       -610.9       4,543.8       0.00       0.00       0.00         16,100.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,951.2       -606.2       4,943.8       0.00       0.00       0.00         16,500.0       90.00       179.33       11,270.0       -5,051.2 <td></td>										
15,700.0       90.00       179.33       11,270.0       -4,251.3       -614.5       4,243.8       0.00       0.00       0.00         15,800.0       90.00       179.33       11,270.0       -4,351.2       -613.3       4,343.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,000.0       90.00       179.33       11,270.0       -4,551.2       -610.9       4,543.8       0.00       0.00       0.00         16,100.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,851.2       -607.4       4,843.8       0.00       0.00       0.00         16,400.0       90.00       179.33       11,270.0       -5,051.2       -606.2       4,943.8       0.00       0.00       0.00         16,500.0       90.00       179.33       11,270.0       -5,051.2 <td></td>										
15,800.0       90.00       179.33       11,270.0       -4,351.2       -613.3       4,343.8       0.00       0.00       0.00         15,900.0       90.00       179.33       11,270.0       -4,451.2       -612.1       4,443.8       0.00       0.00       0.00         16,000.0       90.00       179.33       11,270.0       -4,551.2       -610.9       4,543.8       0.00       0.00       0.00         16,100.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,851.2       -607.4       4,843.8       0.00       0.00       0.00         16,400.0       90.00       179.33       11,270.0       -4,951.2       -606.2       4,943.8       0.00       0.00       0.00         16,500.0       90.00       179.33       11,270.0       -5,051.2       -606.2       4,943.8       0.00       0.00       0.00         16,600.0       90.00       179.33       11,270.0       -5,151.2 <td>15,700.0</td> <td>90.00</td> <td>179.33</td> <td>11,270.0</td> <td>-4,251.3</td> <td>-614.5</td> <td>4,243.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	15,700.0	90.00	179.33	11,270.0	-4,251.3	-614.5	4,243.8	0.00	0.00	0.00
16,000.0       90.00       179.33       11,270.0       -4,551.2       -610.9       4,543.8       0.00       0.00       0.00         16,100.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,851.2       -607.4       4,843.8       0.00       0.00       0.00         16,400.0       90.00       179.33       11,270.0       -4,951.2       -606.2       4,943.8       0.00       0.00       0.00         16,500.0       90.00       179.33       11,270.0       -5,051.2       -605.1       5,043.8       0.00       0.00       0.00         16,600.0       90.00       179.33       11,270.0       -5,151.2       -603.9       5,143.8       0.00       0.00       0.00         16,700.0       90.00       179.33       11,270.0       -5,251.2       -602.7       5,243.8       0.00       0.00       0.00	*	90.00	179.33	11,270.0	-4,351.2	-613.3	4,343.8	0.00	0.00	0.00
16,100.0       90.00       179.33       11,270.0       -4,651.2       -609.8       4,643.8       0.00       0.00       0.00         16,200.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,851.2       -607.4       4,843.8       0.00       0.00       0.00         16,400.0       90.00       179.33       11,270.0       -4,951.2       -606.2       4,943.8       0.00       0.00       0.00         16,500.0       90.00       179.33       11,270.0       -5,051.2       -605.1       5,043.8       0.00       0.00       0.00         16,600.0       90.00       179.33       11,270.0       -5,151.2       -603.9       5,143.8       0.00       0.00       0.00         16,700.0       90.00       179.33       11,270.0       -5,251.2       -602.7       5,243.8       0.00       0.00       0.00										
16,200.0       90.00       179.33       11,270.0       -4,751.2       -608.6       4,743.8       0.00       0.00       0.00         16,300.0       90.00       179.33       11,270.0       -4,851.2       -607.4       4,843.8       0.00       0.00       0.00         16,400.0       90.00       179.33       11,270.0       -4,951.2       -606.2       4,943.8       0.00       0.00       0.00         16,500.0       90.00       179.33       11,270.0       -5,051.2       -605.1       5,043.8       0.00       0.00       0.00         16,600.0       90.00       179.33       11,270.0       -5,151.2       -603.9       5,143.8       0.00       0.00       0.00         16,700.0       90.00       179.33       11,270.0       -5,251.2       -602.7       5,243.8       0.00       0.00       0.00	,									
16,300.0     90.00     179.33     11,270.0     -4,851.2     -607.4     4,843.8     0.00     0.00     0.00       16,400.0     90.00     179.33     11,270.0     -4,951.2     -606.2     4,943.8     0.00     0.00     0.00       16,500.0     90.00     179.33     11,270.0     -5,051.2     -605.1     5,043.8     0.00     0.00     0.00       16,600.0     90.00     179.33     11,270.0     -5,151.2     -603.9     5,143.8     0.00     0.00     0.00       16,700.0     90.00     179.33     11,270.0     -5,251.2     -602.7     5,243.8     0.00     0.00     0.00										
16,500.0     90.00     179.33     11,270.0     -5,051.2     -605.1     5,043.8     0.00     0.00     0.00       16,600.0     90.00     179.33     11,270.0     -5,151.2     -603.9     5,143.8     0.00     0.00     0.00       16,700.0     90.00     179.33     11,270.0     -5,251.2     -602.7     5,243.8     0.00     0.00     0.00	16,300.0	90.00	179.33	11,270.0	-4,851.2	-607.4	4,843.8	0.00	0.00	0.00
16,600.0 90.00 179.33 11,270.0 -5,151.2 -603.9 5,143.8 0.00 0.00 0.00 16,700.0 90.00 179.33 11,270.0 -5,251.2 -602.7 5,243.8 0.00 0.00 0.00	16,400.0									
16,700.0 90.00 179.33 11,270.0 -5,251.2 -602.7 5,243.8 0.00 0.00 0.00										
10,000.0 90.00 179.55 11,270.0 -5,551.2 -601.5 5,545.6 0.00 0.00 0.00										
	10,000.0	90.00	179.33	11,270.0	-5,351.2	-001.5	5,343.8	0.00	0.00	0.00







Database: EDM 5000.15 Single User Db
Company: Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H

Wellbore: OWB
Design: Plan #2

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

**Survey Calculation Method:** 

Well Golden Tee 31 Fed Com #604H KB @ 3490.0usft KB @ 3490.0usft Grid

Minimum Curvature

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)
16,900.0	90.00	179.33	11,270.0	-5,451.2	-600.3	5,443.8	0.00	0.00	0.00
17,000.0	90.00	179.33	11,270.0	-5,551.2	-599.2	5,543.8	0.00	0.00	0.00
17,100.0	90.00	179.33	11,270.0	-5,651.2	-598.0	5,643.8	0.00	0.00	0.00
17,200.0	90.00	179.33	11,270.0	-5,751.1	-596.8	5,743.8	0.00	0.00	0.00
17,300.0	90.00	179.33	11,270.0	-5,851.1	-595.6	5,843.8	0.00	0.00	0.00
17,400.0	90.00	179.33	11,270.0	-5,951.1	-594.5	5,943.8	0.00	0.00	0.00
17,500.0	90.00	179.33	11,270.0	-6,051.1	-593.3	6,043.8	0.00	0.00	0.00
17,600.0	90.00	179.33	11,270.0	-6,151.1	-592.1	6,143.8	0.00	0.00	0.00
17,700.0	90.00	179.33	11,270.0	-6,251.1	-590.9	6,243.8	0.00	0.00	0.00
17,800.0	90.00	179.33	11,270.0	-6,351.1	-589.8	6,343.8	0.00	0.00	0.00
17,900.0	90.00	179.33	11,270.0	-6,451.1	-588.6	6,443.8	0.00	0.00	0.00
18,000.0	90.00	179.33	11,270.0	-6,551.1	-587.4	6,543.8	0.00	0.00	0.00
18,100.0	90.00	179.33	11,270.0	-6,651.1	-586.2	6,643.8	0.00	0.00	0.00
18,200.0	90.00	179.33	11,270.0	-6,751.1	-585.1	6,743.8	0.00	0.00	0.00
18,300.0	90.00	179.33	11,270.0	-6,851.1	-583.9	6,843.8	0.00	0.00	0.00
18,400.0	90.00	179.33	11,270.0	-6,951.1	-582.7	6,943.8	0.00	0.00	0.00
18,500.0	90.00	179.33	11,270.0	-7,051.1	-581.5	7,043.8	0.00	0.00	0.00
18,600.0	90.00	179.33	11,270.0	-7,151.1	-580.3	7,143.8	0.00	0.00	0.00
18,700.0	90.00	179.33	11,270.0	-7,251.0	-579.2	7,243.8	0.00	0.00	0.00
18,800.0	90.00	179.33	11,270.0	-7,351.0	-578.0	7,343.8	0.00	0.00	0.00
18,867.6 <b>TD at 1886</b>	90.00	179.33	11,270.0	-7,418.6	-577.2	7,411.3	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Golden Tee 3' - plan hits target of a point		0.00	11,270.0	-7,418.6	-577.2	486,459.72	827,997.02	32° 20' 2.168 N	103° 24' 18.819 W
FTP (Golden Tee 31 I - plan misses targ - Point			11,270.0 t 11250.0u	296.1 sft MD (1112	-668.1 4.9 TVD, 15	494,174.39 6.3 N, -750.3 E)	827,906.16	32° 21' 18.510 N	103° 24' 19.099 W





Database: EDM 5000.15 Single User Db
Company: Avant Natural Resources
Project: Lea County, NM (NAD 83 NME)
Site: (Golden Tee) Sec-31\_T-22-S\_R-35-E
Well: Golden Tee 31 Fed Com #604H

Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Golden Tee 31 Fed Com #604H KB @ 3490.0usft KB @ 3490.0usft

Grid Minimum Curvature

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,824.7	1,824.0	Rustler			
	4,253.4	4,219.0	Salado			
	4,830.6	4,788.0	Capitan Reef			
	5,988.0	5,929.0	Cherry Canyon			
	7,317.8	7,248.0	Brushy Canyon			
	8,785.8	8,716.0	Bone Spring Lime			
	8,866.8	8,797.0	Avalon A			
	9,121.8	9,052.0	Avalon B			
	9,800.8	9,731.0	1st Bone Spring			
	10,326.8	10,257.0	2nd Bone Spring			
	10,640.8	10,571.0	3rd Bone Spring Carb			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	rdinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,982.7	1,980.4	16.5	-37.1	Start 4604.4 hold at 1982.7 MD
6,587.1	6,519.6	329.5	-742.9	Start Drop -2.00
7,069.8	7,000.0	346.0	-780.0	Start 3697.0 hold at 7069.8 MD
10.766.8	10.697.0	346.0	-780.0	Start Build 10.00
11,666.8	11,270.0	-220.1	-691.4	Start DLS 2.00 TFO 90.00
12,078.1	11,270.0	-629.6	-657.1	Start 6789.5 hold at 12078.1 MD
18,867.6	11,270.0	-7,418.6	-577.2	TD at 18867.6

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** Avant Operating LLC

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 301H

**SURFACE HOLE FOOTAGE:** 185'/N & 1170'/W **BOTTOM HOLE FOOTAGE** 2540'/N & 330'/W

WELL NAME & NO.: | Golden Tee 31 Fed Com 302H

**SURFACE HOLE FOOTAGE:** 335'/N & 1170'/W **BOTTOM HOLE FOOTAGE** 2540'/N & 1254'/W

WELL NAME & NO.: | Golden Tee 31 Fed Com 303H

**SURFACE HOLE FOOTAGE:** 485'/N & 1170'/W **BOTTOM HOLE FOOTAGE** 2540'/N & 2178'/W

WELL NAME & NO.: Golden Tee 31 Fed Com 502H

**SURFACE HOLE FOOTAGE:** 335'/N & 1200'/W **BOTTOM HOLE FOOTAGE** 2540'/N & 1254'/W

WELL NAME & NO.: Golden Tee 31 Fed Com 604H

**SURFACE HOLE FOOTAGE:** 400'/N & 1514'/E **BOTTOM HOLE FOOTAGE** 2540'/N & 2178'/E

WELL NAME & NO.: | Golden Tee 31 Fed Com 605H

**SURFACE HOLE FOOTAGE:** 400'/N & 1484'/E **BOTTOM HOLE FOOTAGE** 2540'/N & 1254'/E

WELL NAME & NO.: | Golden Tee 31 Fed Com 606H

**SURFACE HOLE FOOTAGE:** 400'/N & 1454'/E **BOTTOM HOLE FOOTAGE** 2540'/N & 330'/E

COA

H2S	☐ Yes	<b>☑</b> No	
Potash	■ None	☐ Secretary	□ R-111-P
Cave/Karst Potential	<b>©</b> Low	☐ Medium	□ High
Cave/Karst Potential	Critical		
Variance	None	☑ Flex Hose	Other
Wellhead	Conventional	Multibowl	□ Both
Other	□4 String Area		□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>☑</b> COM	□ Unit

#### 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 1875 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 **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:

#### **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 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. 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)
  - ☑ Eddy CountyCall 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 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 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.
- 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 intergrity 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 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
  - 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.
  - 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 Geosciences	Office: (720)	746-5045
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Mobile: (678) 988-6644

Cory Nunez, Engineer Mobile: (432) 448-3293

## Local & County Agencies

Monument Fire Department	911 or (575) 393-4339
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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) 492-5000

## State Agencies

NM State Police (Hobbs) (57	5) 392	2-5588
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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
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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

## **Veterinarians**

Dal Paso Animal Hospital (Hobbs)	(575) 397-2286
Hobbs Animal Clinic & Pet Care (Hobbs)	(575) 392-5563
Great Plains Veterinary Clinic & Hospital (Hobbs)	(575) 392-5513

## Residents within 2 miles

None

## Air Evacuation

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

#### AVANT OPERATING, LLC GOLDEN TEE 31 FED COM PAD #4 SECTION 31, T-22-S, R-35-E, N.M.P.M., LEA COUNTY, N.M. flare line (straight) & flare >150' arning sign from well head 3471' ELEVATION: 3478'-150' 30' 30' 150' PROPOSED PIPELINE 3474 PROPOSED ACCESS ROAD PRIMARY safety briefing area V-door >150' from well head & egress (exit) route windsocks on rig floor & at 606H WELL FLAG mud tanks 604H WELL FLAG 605H WELL FLAG secondary safety briefing area >150' from well head & egress (exit) route ELEVATION: 3471 TOPSOIL ELEVATION: 3482' WELL FLAG highest ground FNL FEL 604H 400' prevailing winds 1,514 to Southeast 605H 400 1,484 blow from South 606H 400' 1,454 100 OVERALL DIMENSIONS: 360' X 300' SCALE: 1"=100"

1. ALL BEARINGS, DISTANCES & COORDINATES SHOWN ARE BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83, IN U.S. SURVEY FEET.

2. 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.

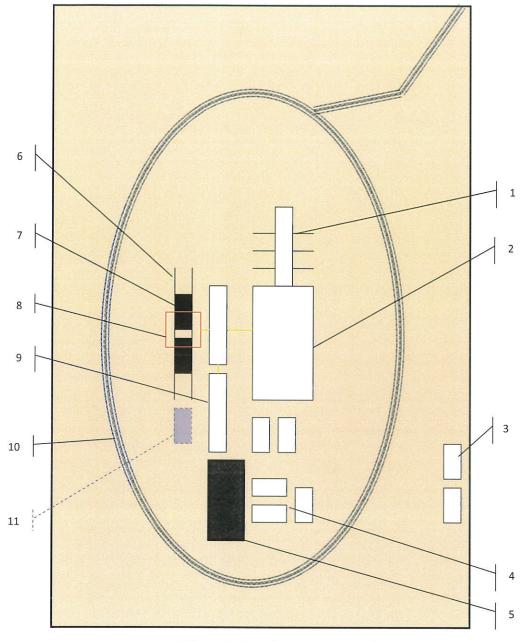
3. UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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	Mall at-	Z-Z-21	
	MARSHALL W. LINDEEN P.S. #17078	DATE	

#### AVANT OPERATING, LLC SURVEYED: 12/20/20 REV. DATE: 1/27/21 APP. BY: M.W.L. DRAWN BY: A.A.D. DATE DRAWN: 12/30/20 FILE NAME: 11527-PAD4 P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505) 334-0408 UNITED FIELD SERVICES INC.

## 103,4333° W 103.4° W 103 3833\* W **Avant Operating, LLC** Golden Tee 31 Fed Com Pad 4 H2S Contingency Plan: Radius Map Section 31, Township 22S, Range 35E Lea County, New Mexico Radius Pad Center 1:27,000 0.25 0.5 Miles NAD 1983 New Mexico State Plane East FIPS 3001 Feet PERMITS WEST Prepared by Permits West, Inc., January 25, 2021 for Avant Operating, LLC 22S 35E 23S 35E Hobbs 07 103 4333° W 103.3833° W 103 4167\* W



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)

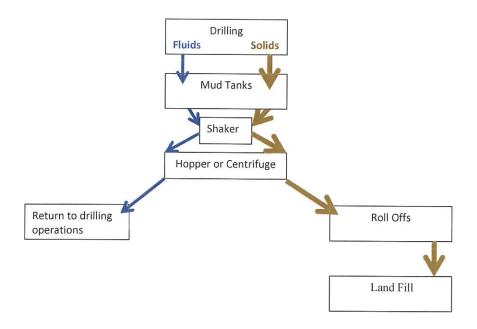
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

#### Flow Chart for Drilling Fluids and Solids



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

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

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 47969

#### **CONDITIONS**

Operator:	OGRID:
Avant Operating, LLC	330396
1515 Wynkoop Street	Action Number:
Denver, CO 80202	47969
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

-	Condition	Condition Date
Ву		
	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/17/2021
	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	9/17/2021
	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	9/17/2021
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/17/2021