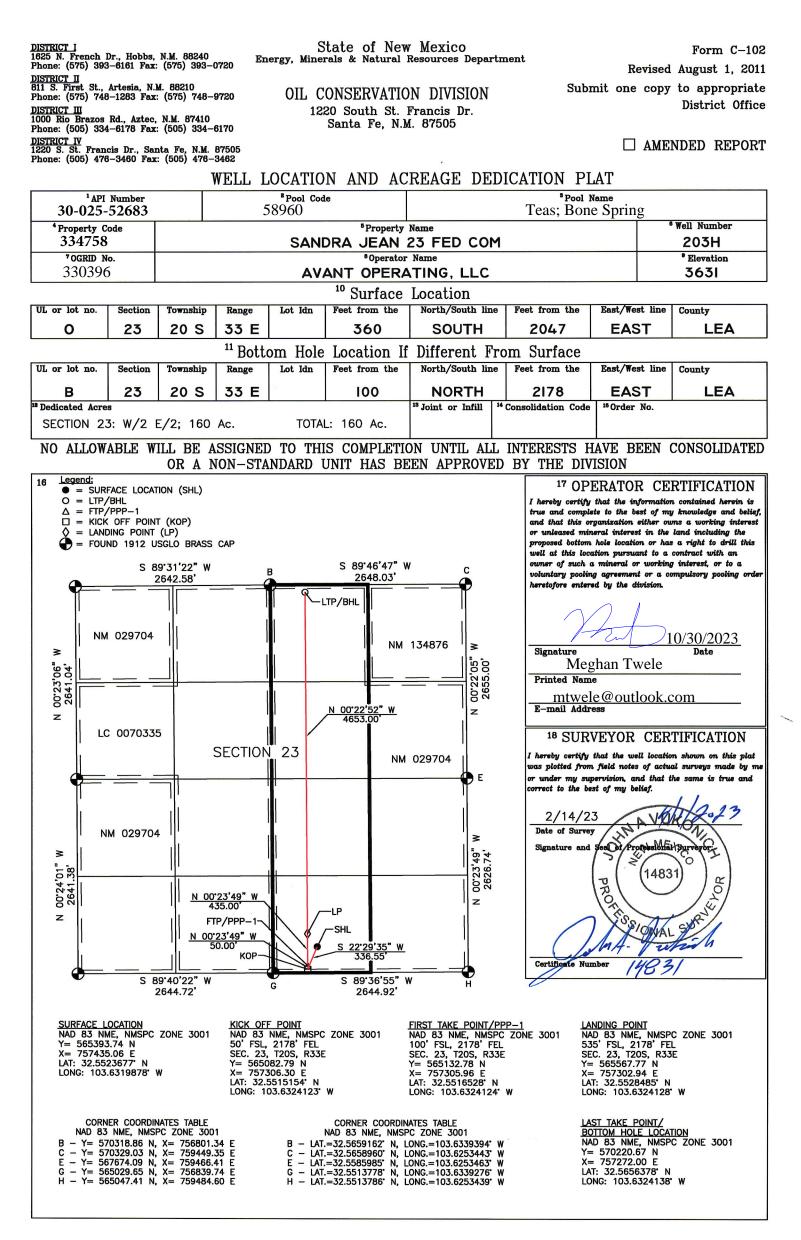
Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018		
UNITED STATES				
DEPARTMENT OF THE I BUREAU OF LAND MANA		5. Lease Serial No.		
APPLICATION FOR PERMIT TO D		6. If Indian, Allotee or Tribe Name		
AFFEICATION FOR FERMIT TO D				
		7. If Unit or CA Agreement, Name and No.		
1a. Type of work:   DRILL   RI	EENTER	, if one of orrigiconton, tune and to:		
1b. Type of Well:   Oil Well   Gas Well   Oil	her	8. Lease Name and Well No.		
1c. Type of Completion:   Hydraulic Fracturing	ngle Zone 🔲 Multiple Zone	o. Deuse Hume und Wen Ho.		
2. Name of Operator		9. API Well No. <b>30-025-52683</b>		
3a. Address	3b. Phone No. (include area code)	10, Field and Pool, or Exploratory		
4. Location of Well (Report location clearly and in accordance v	vith any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area		
At surface				
At proposed prod. zone				
14. Distance in miles and direction from nearest town or post offi	ce*	12. County or Parish 13. State		
15. Distance from proposed*	16. No of acres in lease 17. Spaci	ing Unit dedicated to this well		
location to nearest property or lease line, ft.		•		
(Also to nearest drig. unit line, if any)				
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth 20. BLM	/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration		
	24. Attachments			
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the I	Hydraulic Fracturing rule per 43 CFR 3162.3-3		
1. Well plat certified by a registered surveyor.	4. Bond to cover the operation	ns unless covered by an existing bond on file (see		
2. A Drilling Plan.	Item 20 above).			
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office		rmation and/or plans as may be requested by the		
25. Signature	Name (Printed/Typed)	Date		
Title				
Approved by (Signature)	Name (Printed/Typed)	Date		
Title	Office	I		
Application approval does not warrant or certify that the applican	t holds legal or equitable title to those rights	in the subject lease which would entitle the		
applicant to conduct operations thereon. Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of				
	· · · · ·			



\*(Instructions on page 2)

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(Continued on page 2)



Submit Electronically

Via E-permitting

State of New Mexico Energy, Minerals and Natural Resources Department

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

# NATURAL GAS MANAGEMENT PLAN

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

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

I. Operator: Avant Operating, LLC OGRID: 330396 Date: 3/20/2024

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

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Sandra Jean 23 Fed Com 203H		O-23-T20S-R33E	360FSL/2047FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 204H		O-23-T20S-R33E	360FSL/2087FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 303H		O-23-T18S-R32E	360FSL/2067FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 402H		O-23-T18S-R32E	360FSL/2027FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 403H		O-23-T18S-R32E	360FSL/2107FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 802H		O-23-T18S-R32E	300FSL/2267FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 803H		O-23-T18S-R32E	280FSL/2267FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D

#### IV. Central Delivery Point Name: Sandra Jean CTB 1 East

#### [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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Sandra Jean 23 Fed Com 203H		06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025
Sandra Jean 23 Fed Com 204H		06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025
Sandra Jean 23 Fed Com 303H	1	06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025
Sandra Jean 23 Fed Com 402H		06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025
Sandra Jean 23 Fed Com 403H		06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025
Sandra Jean 23 Fed Com 802H		06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025
Sandra Jean 23 Fed Com 803H		06/16/2025	07/22/2025	07/26/2025	08/20/2025	08/20/2025

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.

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

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

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

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

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

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

# Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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.

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# Avant Operating, LLC Natural Gas Management Plan

VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.

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



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

APD ID: 10400094442

**Operator Name: AVANT OPERATING LLC** 

Well Name: SANDRA JEAN 23 FED COM

Well Type: OIL WELL

Well Number: 203H Well Work Type: Drill

Submission Date: 09/18/2023

Highlighted data reflects the most recent changes

03/21/2024

Drilling Plan Data Report

<u>Show Final Text</u>

# **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13111340	QUATERNARY	3631	0	0	OTHER : Caliche	USEABLE WATER	N
13111341	RUSTLER	2203	1428	1428	ANHYDRITE	NONE	N
13111338	TOP SALT	612	3019	3019	SALT	NONE	N
13111339	BOTTOM SALT	440	3191	3191	SALT	NONE	N
13111342	YATES	431	3200	3211	SANDSTONE	NATURAL GAS, OIL	N
13111343	CAPITAN REEF	38	3593	3610	LIMESTONE	USEABLE WATER	N
13111344	CHERRY CANYON	-1619	5250	5294	SANDSTONE	NONE	N
13111345	BRUSHY CANYON	-3069	6700	6767	SANDSTONE	NATURAL GAS, OIL	N
13111346	BONE SPRING	-4690	8321	8410	LIMESTONE	NATURAL GAS, OIL	Y

# **Section 2 - Blowout Prevention**

#### Pressure Rating (PSI): 5M

Rating Depth: 15000

**Equipment:** A minimum 5M system will be used. The minimum blowout preventer equipment (BOPE) shown in 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 always be kept on site. Surface casing will be tested to 1500

Well Name: SANDRA JEAN 23 FED COM

#### Well Number: 203H

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

#### **Choke Diagram Attachment:**

SJ\_Choke\_20230601170704.pdf

### **BOP Diagram Attachment:**

SJ\_BOP\_20230601170714.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	24	20.0	NEW	API	N	0	1453	0	1453	3631	2178	1453	J-55	94	LT&C	1.12 5	1.12 5	DRY	1.6	DRY	1.6
	INTERMED IATE	17.5	13.375	NEW	API	N	0	3417	0	3403	3640	228	3417	J-55	54.5	LT&C		1.12 5	DRY	1.6	DRY	1.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4000	0	4000	3631	-369	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	5204	4000	5200	-369	-1569	1204	HCL -80	40	LT&C	1.12 5	1.12 5	DRY	1.6	DRY	1.6
	PRODUCTI ON	8.75	5.5	NEW	NON API	N	0	9363	0	9000	3631	-5369	9363	HCP -110				1.12 5	DRY	1.6	DRY	1.6
	PRODUCTI ON	8.5	5.5	NEW	NON API	N	9363	14019	9000	9000	-5369	-5369	4656	HCP -110				1.12 5	DRY	1.6	DRY	1.6

#### **Casing Attachments**

**Operator Name:** AVANT OPERATING LLC

Well Name: SANDRA JEAN 23 FED COM

Well Number: 203H

## **Casing Attachments**

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
SJ_Casing_Desigr	n_Assumption	ns_20230601170753.pdf
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
SJ_Casing_Desigr	n_Assumption	ns_20230601170839.pdf
Casing ID: 3	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
SJ_Casing_Desigr	_Assumption	us_20230912102119.pdf

Operator Name: AVANT OPERATING LLC

Well Name: SANDRA JEAN 23 FED COM

Well Number: 203H

## **Casing Attachments**

Casing ID: 4 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
SJ_Casing_Design_Assumptions_20230601171003.pdf
00_0dsing_besign_Assumptions_2020001171000.pdi
Casing ID: 5 String PRODUCTION
Inspection Document:
Spec Document:
SJ_5.5in_Casing_Spec_20230601171029.pdf
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
SJ_Casing_Design_Assumptions_20230601171040.pdf
Casing ID: 6 String PRODUCTION
Inspection Document:
Spec Document:
SJ_5.5in_Casing_Spec_20230918151209.pdf
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):

**Section 4 - Cement** 

Well Name: SANDRA JEAN 23 FED COM

#### Well Number: 203H

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String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1453	945	1.9	12.8	1796	50	35% Class B Poz + 65% Class C	6% gel + 5% salt + ¼ #/sack poly flake + 0.005 gal/sack No Foam V1A
SURFACE	Tail		1153	1453	320	1.33	14.8	425	35	Class C	1% CaCl2 + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Lead		0	3417	1480	1.9	12.8	2812	50	35% Class B Poz + 65% Class C	6% gel + 5% salt + 0.4% R-1300 + ¼ #/sack poly flake + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Tail		2721	3417	455	1.36	14.8	2931	40	Class C	5% SALT+0.005GPS NoFoam V1A
INTERMEDIATE	Lead		0	5243	840	1.9	12.8	1596	50	35% B_Poz+65% Class C	6% Gel+5% SALT+0.2% R- 1300+0.25PPS Pol-E- Flake+0.005GPS
INTERMEDIATE	Tail		4163	5243	315	1.36	14.8	2215	20	100% Class C	5% SALT+0.005GPS NoFoam V1A
PRODUCTION	Lead		0	9000	785	3.38	10.7	2653	50	100% Prolite	5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.2% FL- 17+3PPS Gilsonite+0.005GPS NoFoam V1A
PRODUCTION	Tail		8610	1401 9	1255	1.21	14.5	1519	20	50% Class B Poz + 50% Class H	5% salt + 0.05% SuspendaCem 6302 + 0.75% FR-5 + 0.5% FL- 24 + 0.005% gal/sack No Foam V1A

# 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 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.

**Describe what will be on location to control well or mitigate other conditions:** Sufficient mud materials (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase requirements will always be kept on site.

Well Name: SANDRA JEAN 23 FED COM

#### Well Number: 203H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1453	OTHER : Fresh Water	8.4	10							
1453	3417	OTHER : Brine	10	10.5							
3417	5243	OTHER : Fresh Water	8.4	8.4							
5243	9000	OTHER : Cut Bring	9.2	9.5							
9000	1401 9	OIL-BASED MUD	9.5	9.8							

# Section 6 - Test, Logging, Coring

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

GR log will be acquired by MWD tools throughout the well.

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

GAMMA RAY LOG,

# Coring operation description for the well:

No core or open hole or cased hole log is planned

# **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 4212

Anticipated Surface Pressure: 2231

Anticipated Bottom Hole Temperature(F): 155

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Well Name: SANDRA JEAN 23 FED COM

Well Number: 203H

## Hydrogen sulfide drilling operations

SJ\_Pad2\_H2S\_Plan\_20230911143955.pdf

# **Section 8 - Other Information**

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

Sandra\_Jean\_23\_Fed\_Com\_203H\_Plan\_0.1\_Report\_20230911144141.pdf

#### Other proposed operations facets description:

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

#### Other proposed operations facets attachment:

SJ\_Coflex\_20230601172445.pdf

SJ\_Speedhead\_Specs\_20230601172624.pdf

Avant\_Nat\_Res\_\_\_No\_Cost\_\_\_4\_string\_Bone\_Spring\_Well\_\_\_AES\_VERT\_\_\_MP\_20230911144240.pdf

Avant\_Natural\_Resources\_Sandra\_Jean\_23\_Fed\_Com\_\_203H\_\_230612155640\_B\_\_Entire\_Well\_\_No\_Pricing\_20230911 144246.pdf

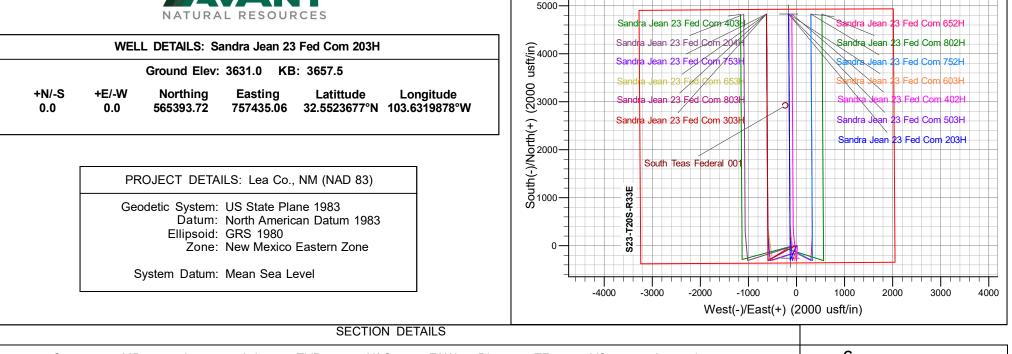
Sandra\_Jean\_23\_Fed\_Com\_203H\_WBS\_Prelim\_20231102073833.pdf

Sandra\_Jean\_23\_Fed\_Com\_203H\_Plan\_0.1\_Anti\_Collision\_Survey\_20231102073419.pdf

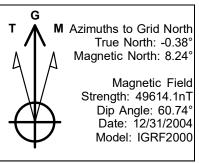
#### Other Variance attachment:

SJ\_Casing\_Cementing\_Variance\_Request\_20230601172636.pdf

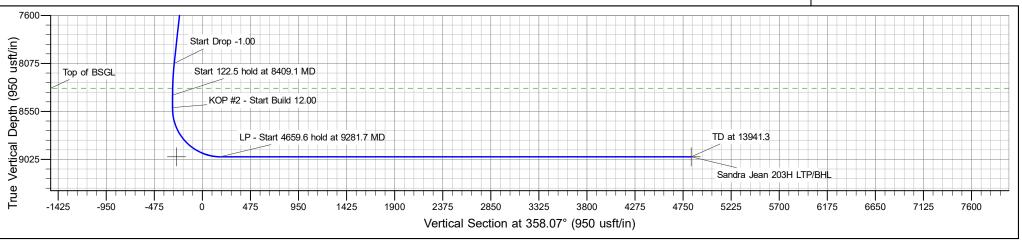




Sec 1 2 3 4 5 6 7 8	MD 0.0 5350.0 5694.6 8074.3 8418.9 8541.4 9291.4 13941.0	Inc 0.00 6.89 6.89 0.00 0.00 90.00 90.00	Azi 0.00 203.43 203.43 0.00 0.00 359.63 359.63	TVD 0.0 5350.0 5693.8 8056.2 8400.0 8522.5 9000.0 9000.0	+N/-S 0.0 -19.0 -281.0 -300.0 -300.0 177.5 4827.0	+E/-W 0.0 -8.2 -121.8 -130.0 -130.0 -133.1 -163.0	Dleg 0.00 2.00 2.00 2.00 0.00 12.00 0.00	TFace 0.00 203.43 0.00 180.00 0.00 359.63 0.00	VSect 0.0 -18.7 -276.7 -295.4 -295.4 181.8 4829.7	Annotation TD at 13941.3	
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# **Avant Operating, LLC**

Lea Co., NM (NAD 83) Sandra Jean 23 Fed Com Pad 2 Sandra Jean 23 Fed Com 203H

OH

Plan: Plan 0.1

# **Standard Planning Report**

11 September, 2023





Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:	Avant Lea Co Sandra	5000.16 Single Operating, LLC o., NM (NAD 8 a Jean 23 Fed a Jean 23 Fed .1	C 3) Com Pad 2		TVD Refer MD Refere North Ref	ence:		Well Sandra Je. WELL @ 3657. WELL @ 3657. Grid Minimum Curva	5usft (3657.5) 5usft (3657.5)	n 203H
Project	Lea Co	., NM (NAD 83	3)							
Map System: Geo Datum: Map Zone:	North Am	e Plane 1983 nerican Datum kico Eastern Zo			System Dat	tum:	Me	ean Sea Level		
Site	Sandra	Jean 23 Fed (	Com Pad 2							
Site Position: From: Position Uncertai		Long 0.0	Northi Eastin usft Slot R	-	757,4	233.85 usft 466.12 usft 3-3/16 "	Latitude: Longitude:			32.5519277°N 103.6318904°W
Well	Sandra	Jean 23 Fed C	Com 203H							
Well Position Position Uncertai Grid Convergence	-	0 0	0.0 usft Ea	orthing: sting: ellhead Elevat	tion:	565,393.73 757,435.06	usft Lor	tude: gitude: und Level:		32.5523677°N 103.6319878°W 3,631.0 usft
Wellbore	ОН									
Magnetics	Мо	del Name	Sample	e Date	Declina (°)	tion	Dip A ('	-		Strength 1T)
		IGRF2000	1	2/31/2004		8.62		60.74	49,6	14.12743470
Design	Plan 0.1	1								
Audit Notes:										
Version:			Phase	e: F	PROTOTYPE	Tie	On Depth:		0.0	
Vertical Section:		0	Depth From (TV	/D)	+N/-S		:/-W	Dir	rection	
			<b>(usft)</b> 0.0		<b>(usft)</b> 0.0	-	<b>sft)</b> ).0	3	(°) 58.07	
Plan Survey Tool Depth Fron (usft) 1 0	n Depti (ust	n To	9/11/2023 (Wellbore) 1 (OH)		Tool Name B001Mb_MWI OWSG MWD		Remarks			
Plan Sections										
Measured Depth Ir (usft)	nclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0 5,350.0 5,694.6 8,074.3 8,418.9 8,541.4	0.00 0.00 6.89 6.89 0.00 0.00	0.00 0.00 203.43 203.43 0.00 0.00	0.0 5,350.0 5,693.8 8,056.2 8,400.0 8,522.5	0.0 0.0 -19.0 -281.0 -300.0 -300.0	0.0 0.0 -8.2 -121.8 -130.0 -130.0	0.00 0.00 2.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00 -2.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 203.43 0.00 180.00 0.00	
9,291.4 13,941.0	90.00 90.00	359.63 359.63	9,000.0 9,000.0	177.5 4,827.0	-133.1 -163.0	12.00 0.00	12.00 0.00	0.00 0.00	359.63 0.00	Sandra Jean 203H LT

9/11/2023 9:43:10AM



**Planning Report** 



EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 203H
Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Sandra Jean 23 Fed Com Pad 2	North Reference:	Grid
Sandra Jean 23 Fed Com 203H	Survey Calculation Method:	Minimum Curvature
ОН		
Plan 0.1		
	Avant Operating, LLC Lea Co., NM (NAD 83) Sandra Jean 23 Fed Com Pad 2 Sandra Jean 23 Fed Com 203H OH	Avant Operating, LLCTVD Reference:Lea Co., NM (NAD 83)MD Reference:Sandra Jean 23 Fed Com Pad 2North Reference:Sandra Jean 23 Fed Com 203HSurvey Calculation Method:OHOH

Planned Survey

Measured Depth ( (usft)	nclination (°)	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
1,428.0	0.00	0.00	1,428.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER	0.00	0.00	1,420.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Bu									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,316.7	0.00	0.00	2,316.7	0.0	0.0	0.0	0.00	0.00	0.00
Start 5775.8 ho	ld at 2316.7 M	ID							
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
YATES									
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,593.0	0.00	0.00	3,593.0	0.0	0.0	0.0	0.00	0.00	0.00
CAPITAN REE									
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3.700.0	0.00	0.00	3.700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0				0.00		
-,				0.0	0.0	0.0		0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00

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EDM 5000.16 Single User Db Well Sandra Jean 23 Fed Com 203H Database: Local Co-ordinate Reference: Company: Avant Operating, LLC TVD Reference: WELL @ 3657.5usft (3657.5) Project: Lea Co., NM (NAD 83) MD Reference: WELL @ 3657.5usft (3657.5) Site: Sandra Jean 23 Fed Com Pad 2 North Reference: Grid Well: Sandra Jean 23 Fed Com 203H Survey Calculation Method: Minimum Curvature Wellbore: OH Design: Plan 0.1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00							0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,250.0	0.00	0.00	5,250.0	0.0	0.0	0.0	0.00	0.00	0.00
CHERRY CA	NYON								
5,260.0	0.00	0.00	5,260.0	0.0	0.0	0.0	0.00	0.00	0.00
DELAWARE									
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,350.0	0.00	0.00	5,350.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	1.00	203.43	5,400.0	-0.4	-0.2	-0.4	2.00	2.00	0.00
5,500.0	3.00	203.43	5,499.9	-3.6	-1.6	-3.5	2.00	2.00	0.00
5,600.0	5.00	203.43	5,599.7	-10.0	-4.3	-9.9	2.00	2.00	0.00
5,694.6	6.89	203.43	5,693.8	-19.0	-8.2	-18.7	2.00	2.00	0.00
5,700.0	6.89	203.43	5,699.1	-19.6	-8.5	-19.3	0.00	0.00	0.00
5,800.0	6.89	203.43	5,798.4	-30.6	-13.3	-30.1	0.00	0.00	0.00
5,900.0	6.89	203.43	5,897.7	-41.6	-18.0	-41.0	0.00	0.00	0.00
6,000.0	6.89	203.43	5,997.0	-52.6	-22.8	-51.8	0.00	0.00	0.00
6,100.0	6.89	203.43	6,096.2	-63.6	-27.6	-62.7	0.00	0.00	0.00
6,200.0	6.89	203.43	6,195.5	-74.6	-32.3	-73.5	0.00	0.00	0.00
6,300.0	6.89	203.43	6,294.8	-85.7	-37.1	-84.3	0.00	0.00	0.00
6,400.0	6.89	203.43	6,394.1	-96.7	-41.9	-95.2	0.00	0.00	0.00
6,500.0	6.89	203.43	6,493.3	-107.7	-46.7	-106.0	0.00	0.00	0.00
6,600.0	6.89	203.43	6,592.6	-118.7	-51.4	-116.9	0.00	0.00	0.00
6,700.0	6.89	203.43	6,691.9	-129.7	-56.2	-127.7	0.00	0.00	0.00
6,708.2	6.89	203.43	6,700.0	-130.6	-56.6	-128.6	0.00	0.00	0.00
BRUSHY CA	NYON								
6,800.0	6.89	203.43	6,791.2	-140.7	-61.0	-138.6	0.00	0.00	0.00
6,900.0	6.89	203.43	6,890.5	-151.7	-65.7	-149.4	0.00	0.00	0.00
7,000.0	6.89	203.43	6,989.7	-162.7	-70.5	-160.3	0.00	0.00	0.00
7,100.0	6.89	203.43	7,089.0	-173.7	-75.3	-171.1	0.00	0.00	0.00
7,200.0	6.89	203.43	7,188.3	-184.7	-80.1	-181.9	0.00	0.00	0.00
7,300.0	6.89	203.43	7,287.6	-195.8	-84.8	-192.8	0.00	0.00	0.00
7,400.0	6.89	203.43	7,386.8	-206.8	-89.6	-203.6	0.00	0.00	0.00
7,500.0	6.89	203.43	7,486.1	-217.8	-94.4	-214.5	0.00	0.00	0.00
7,600.0	6.89	203.43	7,585.4	-228.8	-99.1	-225.3	0.00	0.00	0.00
7,700.0	6.89	203.43	7,684.7	-239.8	-103.9	-236.2	0.00	0.00	0.00
7,800.0	6.89	203.43	7,784.0	-250.8	-108.7	-247.0	0.00	0.00	0.00
7,900.0	6.89	203.43	7,883.2	-261.8	-113.5	-257.8	0.00	0.00	0.00
8,000.0	6.89	203.43	7,982.5	-272.8	-118.2	-268.7	0.00	0.00	0.00
8,074.3	6.89	203.43	8,056.2	-281.0	-121.8	-276.7	0.00	0.00	0.00
,			,						
8,092.5	6.53	203.43	8,074.3	-283.0	-122.6	-278.7	2.00	-2.00	0.00
Start Drop -1									_
8,100.0	6.38	203.43	8,081.8	-283.7	-123.0	-279.4	2.00	-2.00	0.00
8,200.0	4.38	203.43	8,181.4	-292.3	-126.7	-287.9	2.00	-2.00	0.00
8,300.0	2.38	203.43	8,281.2	-297.7	-129.0	-293.2	2.00	-2.00	0.00
8,339.8	1.58	203.43	8,321.0	-299.0	-129.6	-294.5	2.00	-2.00	0.00
Top of BSGL	-								
8,400.0	0.38	203.43	8,381.1	-299.9	-130.0	-295.4	2.00	-2.00	0.00

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Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 2	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 0.1		

Planned Survey

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)
8,409.1	0.19	203.43	8,390.3	-300.0	-130.0	-295.4	2.00	-2.00	0.00
Start 122.5 h	old at 8409.1 ME	)							
8,418.9	0.00	0.00	8,400.0	-300.0	-130.0	-295.4	2.00	-2.00	0.00
8,500.0	0.00	0.00	8,481.1	-300.0	-130.0	-295.4	0.00	0.00	0.00
8,531.7	0.00	0.00	8,512.8	-300.0	-130.0	-295.4	0.00	0.00	0.00
KOP #2 - Sta	rt Build 12.00								
8,541.4	0.00	0.00	8,522.5	-300.0	-130.0	-295.4	0.00	0.00	0.00
8,600.0	7.03	359.63	8,581.0	-296.4	-130.0	-291.8	12.00	12.00	0.00
8,700.0	19.03	359.63	8.678.2	-273.9	-130.2	-269.3	12.00	12.00	0.00
8,800.0	31.03	359.63	8,768.7	-231.7	-130.4	-227.1	12.00	12.00	0.00
8,900.0	43.03	359.63	8,848.4	-171.5	-130.8	-167.0	12.00	12.00	0.00
8,932.0	46.87	359.63	8,871.0	-149.0	-131.0	-144.5	12.00	12.00	0.00
Sandra Jean		250.02	0.040.0	00.0	404.0	04 7	40.00	40.00	0.00
9,000.0	55.03	359.63	8,913.8	-96.2	-131.3	-91.7	12.00	12.00	0.00
9,100.0	67.03	359.63	8,962.2	-8.8	-131.9	-4.4	12.00	12.00	0.00
9,200.0	79.03	359.63	8,991.3	86.6	-132.5	91.0	12.00	12.00	0.00
9,281.7	88.83	359.63	8,999.9	167.7	-133.0	172.1	12.00	12.00	0.00
LP - Start 46	59.6 hold at 928 <sup>,</sup>	1.7 MD							
9,291.4	90.00	359.63	9,000.0	177.5	-133.1	181.8	12.00	12.00	0.00
9,300.0	90.00	359.63	9,000.0	186.1	-133.1	190.5	0.00	0.00	0.00
9,400.0	90.00	359.63	9,000.0	286.1	-133.8	290.4	0.00	0.00	0.00
9,500.0	90.00	359.63	9,000.0	386.1	-134.4	390.4	0.00	0.00	0.00
9,600.0	90.00	359.63	9,000.0	486.1	-135.1	490.3	0.00	0.00	0.00
9,700.0	90.00	359.63	9,000.0	586.1	-135.7	590.3	0.00	0.00	0.00
9,800.0	90.00	359.63	9,000.0	686.1	-136.4	690.3	0.00	0.00	0.00
9,900.0	90.00	359.63	9,000.0	786.1	-137.0	790.2	0.00	0.00	0.00
10,000.0	90.00	359.63	9,000.0	886.0	-137.6	890.2	0.00	0.00	0.00
10,000.0	90.00	359.63	9,000.0	986.0	-138.3	990.2	0.00	0.00	0.00
10,200.0	90.00	359.63	9,000.0	1,086.0	-138.9	1,090.1	0.00	0.00	0.00
10,200.0	90.00	359.63	9,000.0	1,186.0	-139.6	1,190.1	0.00	0.00	0.00
	90.00	359.63 359.63	9,000.0 9,000.0		-139.6 -140.2			0.00	0.00
10,400.0			9,000.0 9,000.0	1,286.0 1 386 0		1,290.0	0.00		
10,500.0	90.00	359.63 350.63		1,386.0 1,486.0	-140.9	1,390.0	0.00	0.00	0.00 0.00
10,600.0	90.00	359.63	9,000.0	1,486.0	-141.5	1,490.0	0.00	0.00	
10,700.0	90.00	359.63	9,000.0	1,586.0	-142.2	1,589.9	0.00	0.00	0.00
10,800.0	90.00	359.63	9,000.0	1,686.0	-142.8	1,689.9	0.00	0.00	0.00
10,900.0	90.00	359.63	9,000.0	1,786.0	-143.4	1,789.9	0.00	0.00	0.00
11,000.0	90.00	359.63	9,000.0	1,886.0	-144.1	1,889.8	0.00	0.00	0.00
11,100.0	90.00	359.63	9,000.0	1,986.0	-144.7	1,989.8	0.00	0.00	0.00
11,200.0	90.00	359.63	9,000.0	2,086.0	-145.4	2,089.7	0.00	0.00	0.00
11,300.0	90.00	359.63	9,000.0	2,186.0	-146.0	2,189.7	0.00	0.00	0.00
11,400.0	90.00	359.63	9,000.0	2,286.0	-146.7	2,289.7	0.00	0.00	0.00
11,500.0	90.00	359.63	9,000.0	2,386.0	-147.3	2,389.6	0.00	0.00	0.00
11,600.0	90.00	359.63	9,000.0	2,486.0	-148.0	2,489.6	0.00	0.00	0.00
11,700.0	90.00	359.63	9,000.0	2,586.0	-148.6	2,589.6	0.00	0.00	0.00
11,800.0	90.00	359.63	9,000.0	2,686.0	-149.2	2,689.5	0.00	0.00	0.00
11,900.0	90.00	359.63	9,000.0	2,786.0	-149.9	2,789.5	0.00	0.00	0.00
12,000.0	90.00	359.63	9,000.0	2,886.0	-150.5	2,889.4	0.00	0.00	0.00
12,100.0	90.00	359.63	9,000.0	2,986.0	-151.2	2,989.4	0.00	0.00	0.00
12,200.0	90.00	359.63	9,000.0	3,086.0	-151.8	3,089.4	0.00	0.00	0.00
12,300.0	90.00	359.63	9,000.0	3,186.0	-152.5	3,189.3	0.00	0.00	0.00
12,400.0	90.00	359.63	9,000.0	3,286.0	-153.1	3,289.3	0.00	0.00	0.00
12,500.0	90.00	359.63	9,000.0	3,386.0	-153.8	3,389.3	0.00	0.00	0.00
12,600.0	90.00	359.63	9,000.0	3,486.0	-154.4	3,489.2	0.00	0.00	0.00

9/11/2023 9:43:10AM



**Planning Report** 



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 203H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 2	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 0.1		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,700.0	90.00	359.63	9,000.0	3,586.0	-155.0	3,589.2	0.00	0.00	0.00
12,800.0	90.00	359.63	9,000.0	3,686.0	-155.7	3,689.1	0.00	0.00	0.00
12,900.0	90.00	359.63	9,000.0	3,786.0	-156.3	3,789.1	0.00	0.00	0.00
13,000.0	90.00	359.63	9,000.0	3,886.0	-157.0	3,889.1	0.00	0.00	0.00
13,100.0	90.00	359.63	9,000.0	3,986.0	-157.6	3,989.0	0.00	0.00	0.00
13,200.0	90.00	359.63	9,000.0	4,086.0	-158.3	4,089.0	0.00	0.00	0.00
13,300.0	90.00	359.63	9,000.0	4,186.0	-158.9	4,189.0	0.00	0.00	0.00
13,400.0	90.00	359.63	9,000.0	4,286.0	-159.6	4,288.9	0.00	0.00	0.00
13,500.0	90.00	359.63	9,000.0	4,386.0	-160.2	4,388.9	0.00	0.00	0.00
13,600.0	90.00	359.63	9,000.0	4,486.0	-160.8	4,488.8	0.00	0.00	0.00
13,700.0	90.00	359.63	9,000.0	4,586.0	-161.5	4,588.8	0.00	0.00	0.00
13,800.0	90.00	359.63	9,000.0	4,686.0	-162.1	4,688.8	0.00	0.00	0.00
13,900.0	90.00	359.63	9,000.0	4,786.0	-162.8	4,788.7	0.00	0.00	0.00
13,941.0	90.00	359.63	9,000.0	4,827.0	-163.0	4,829.7	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
Sandra Jean 203H FTP - plan misses target - Point	0.00 center by 170	0.00 8usft at 893.	9,000.0 2.0usft MD (a	-261.0 8871.0 TVD, -	-129.1 149.0 N, -131	565,132.77 .0 E)	757,305.94	32.5516528°N	103.6324124°W
Sandra Jean 203H LTP/⊢ - plan hits target cen - Point		0.00	9,000.0	4,827.0	-163.0	570,220.68	757,272.01	32.5656378°N	103.6324138°W

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,428.0	1,428.0	RUSTLER				
3,200.0	3,200.0	YATES				
3,593.0	3,593.0	CAPITAN REEF				
5,250.0	5,250.0	CHERRY CANYON				
5,260.0	5,260.0	DELAWARE				
6,708.2	6,700.0	BRUSHY CANYON				
8,339.8	8,321.0	Top of BSGL				
	Depth (usft) 1,428.0 3,200.0 3,593.0 5,250.0 5,260.0 6,708.2	Depth (usft)Depth (usft)1,428.01,428.03,200.03,200.03,593.03,593.05,250.05,250.05,260.05,260.06,708.26,700.0	Depth (usft)         Depth (usft)         Name           1,428.0         1,428.0         RUSTLER           3,200.0         3,200.0         YATES           3,593.0         3,593.0         CAPITAN REEF           5,250.0         5,250.0         CHERRY CANYON           5,260.0         5,260.0         DELAWARE           6,708.2         6,700.0         BRUSHY CANYON	Depth (usft)Depth (usft)Depth (usft)Lithology1,428.01,428.0RUSTLER3,200.03,200.0YATES3,593.03,593.0CAPITAN REEF5,250.05,250.0CHERRY CANYON5,260.05,260.0DELAWARE6,708.26,700.0BRUSHY CANYON	Depth (usft)Depth (usft)Depth (usft)Dip (usft)1,428.01,428.0RUSTLER3,200.03,200.03,593.03,593.03,593.03,593.05,250.05,250.05,260.05,260.05,260.05,260.06,708.26,700.0BRUSHY CANYON	Depth (usft)Depth (usft)Depth (usft)Dip (°)Dip (°)1,428.01,428.0RUSTLER3,200.03,200.0YATES3,593.03,593.0CAPITAN REEF5,250.05,250.0CHERRY CANYON5,260.05,260.0DELAWARE6,708.26,700.0BRUSHY CANYON



**Planning Report** 



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 203H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 2	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan 0.1		

Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2.000.0	2.000.0	0.0	0.0	KOP - Start Build 1.00
2,316.7	2,316.7	0.0	0.0	Start 5775.8 hold at 2316.7 MD
8,092.5	8,074.3	-283.0	-122.6	Start Drop -1.00
8,409.1	8,390.3	-300.0	-130.0	Start 122.5 hold at 8409.1 MD
8,531.7	8,512.8	-300.0	-130.0	KOP #2 - Start Build 12.00
9,281.7	8,999.9	167.7	-133.0	LP - Start 4659.6 hold at 9281.7 MD
13,941.0	9,000.0	4,827.0	-163.0	TD at 13941.3

#### 9/11/2023 9:43:10AM

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Avant Operating LLC
LEASE NO.:	NMNM29704
LOCATION:	Section 23, T.20 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico 🖃
WELL NAME & NO.:	Sandra Jean 23 Fed Com 203H
SURFACE HOLE FOOTAGE:	360'/S & 2047'/E
<b>BOTTOM HOLE FOOTAGE</b>	100'/N & 2178'/E
ATS/API ID:	ATS-23-2410
APD ID:	10400094442
Sundry ID:	N/a
WELL NAME & NO.:	Sandra Jean 23 Fed Com 204H
SURFACE HOLE FOOTAGE:	360'/S & 2087'/E
<b>BOTTOM HOLE FOOTAGE</b>	100'/N & 2178'/W
ATS/API ID:	ATS-23-2411
APD ID:	10400094528
Sundry ID:	N/a
WELL NAME & NO.:	Sandra Jean 23 Fed Com 503H
SURFACE HOLE FOOTAGE:	200'/S & 2077'/E
<b>BOTTOM HOLE FOOTAGE</b>	100'/N & 2178'/E
ATS/API ID:	ATS-23-1735
APD ID:	
Sundry ID:	N/a
WELL NAME & NO.:	Sandra Jean 23 Fed Com 752H
SURFACE HOLE FOOTAGE:	200'/S & 2017'/E
<b>BOTTOM HOLE FOOTAGE</b>	100'/N & 1716'/E
ATS/API ID:	ATS-23-1792
APD ID:	10400092995
Sundry ID:	N/a

COA

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			1
H2S	Yes 👤		
Potash	R-111-P		
Cave/Karst	Low		
Potential			
Cave/Karst	Critical		
Potential			
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibov	vl 🔽	
Other	✓ 4 String	Capitan Reef	□ WIPP
		Int 2 👻	
Other	Pilot Hole	C Open Annulus	
	None 🝷		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None	None 🔫	Squeeze
			None 🝷
Special	□ Water	СОМ	Unit Unit
Requirements	Disposal/Injection		
Special	Batch Sundry		
Requirements	-		
Special	Break Testing	□ Offline	Casing
Requirements	_	Cementing	Clearance
Variance		_	

# A. HYDROGEN SULFIDE

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

# **B.** CASING

# Surface casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 1. The 20 inch surface casing shall be set at approximately 1660 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 24 inch in diameter.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

# Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **13-3/8** inch intermediate casing shall be set at approximately **3417 feet** is:
  - 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 cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
  - In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
  - 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.
- 3. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

- 4. 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 500 feet into the previous casing, whichever is greater. Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

# **C. PRESSURE CONTROL**

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

## 2.

# **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** intermediate casing shoe shall be **3000 (3M)** psi.
- c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch Choose an item. casing shoe shall be **5000 (5M)** psi.

# **Option 2:**

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 20 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

# **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

# 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

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can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

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

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.
- C. DRILLING MUD

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

# D. WASTE MATERIAL AND FLUIDS

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

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

LVO 12/27/2023

# Hydrogen Sulfide Plan Summary

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

Breathing apparatus:

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

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

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

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

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



Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

Communication: Communication will be via cell phones and land lines where available.

# Company Personnel to be Notified

John Harper, Vice President of Geoscience Braden Harris, Engineer Sarah Ferreyros, Director of Regulatory	Office: (720) 746-5045 Mobile: (678) 988-6644 Mobile: (406) 600-3310 Mobile: (720) 854-9020
Local & County Agencies	
Monument Volunter Fire Department	911 or (575) 393-4339
Lea County Sheriff (Lovington) Lea County Emergency Management (Lovington) Lea Regional Medical Center Hopital (Hobbs)	911 or (575) 396-3611 (575) 396-8602 (575) 492-5000

# State Agencies

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



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# Federal Agencies

(575) 234-5972
(575) 393-3612
(800) 424-8802
(800) 887-6063
(214) 665-6444

# **Veterinarians**

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

# Residents within 2 miles

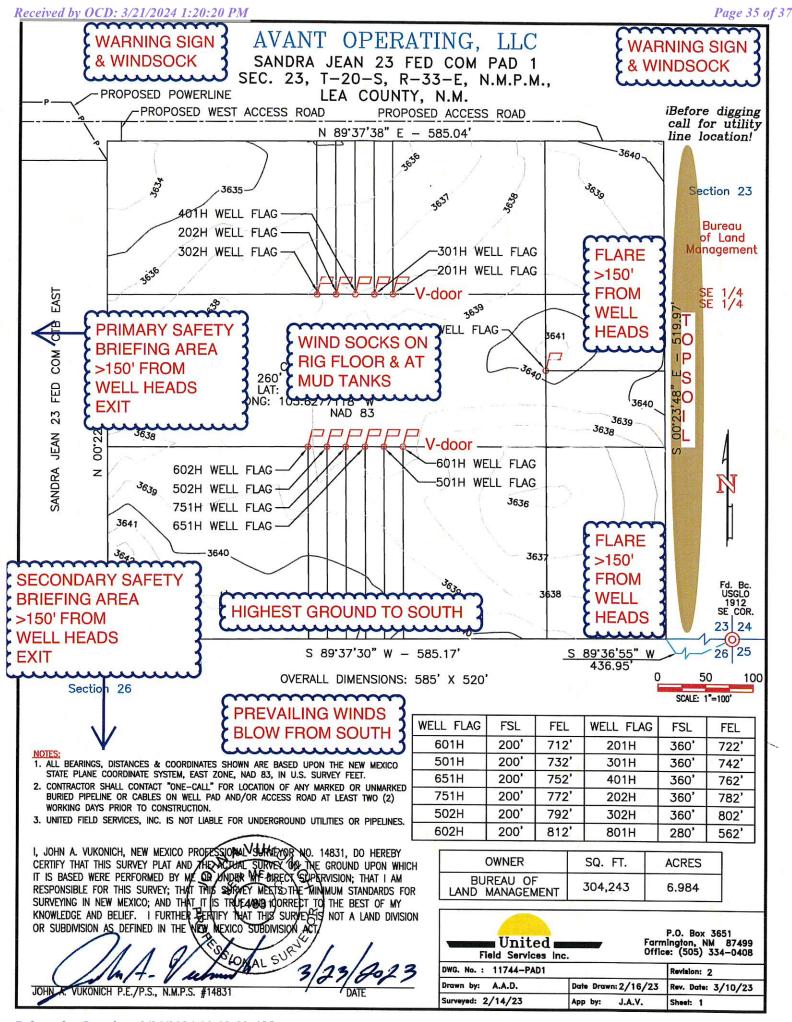
None

# Air Evacuation

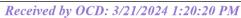
AeroCare (Lubbock)	(800) 627-2376
Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256

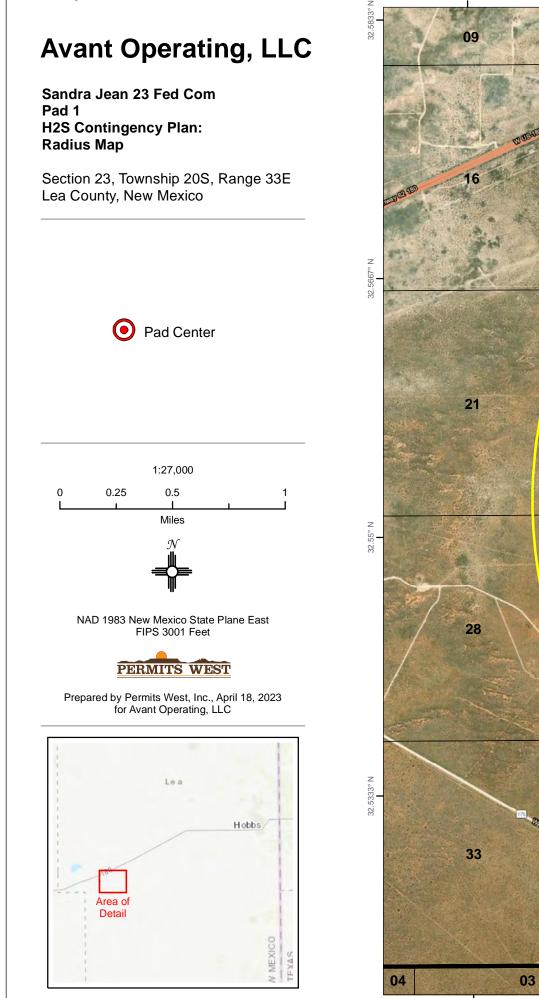


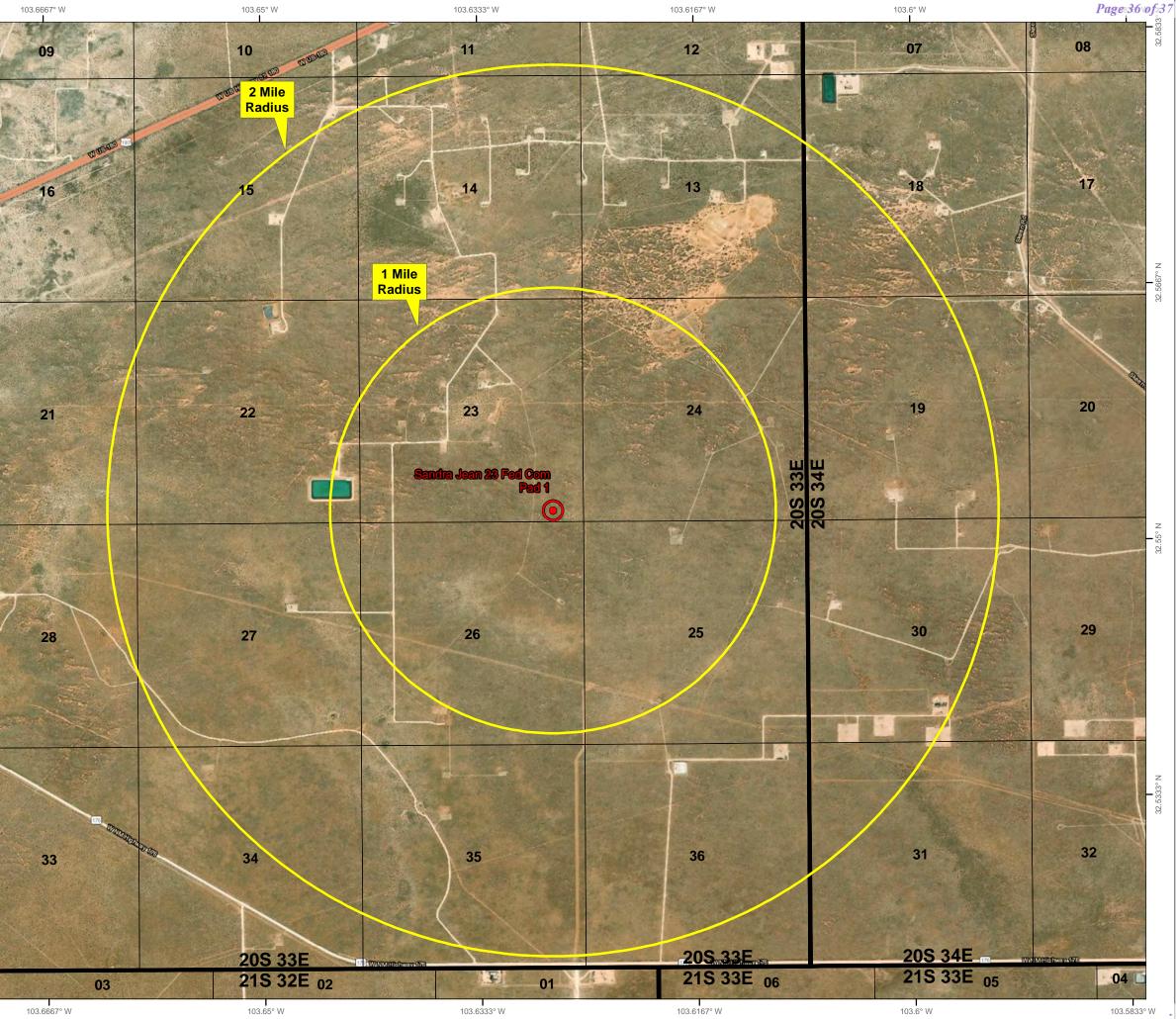
**Released to Imaging: 3/26/2024 11:18:09 AM** 



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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

#### District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Operator:	OGRID:
Avant Operating, LLC	330396
1515 Wynkoop Street	Action Number:
Denver, CO 80202	325610
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/26/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/26/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/26/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/26/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	3/26/2024

CONDITIONS

Action 325610