*(Instructions on page 2)

Form 3160-3 (June 2015)	June 2015)										
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR	Γ		5. Lease Serial No. NMNM29704							
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee	or Tribe	Name					
1a. Type of work:	EENTER			7. If Unit or CA Ag	reement,	Name and No.					
1b. Type of Well: Oil Well Gas Well C	Other			8. Lease Name and	Well No	١.					
1c. Type of Completion: Hydraulic Fracturing S	ingle Zone	Multiple Zone		SANDRA JEAN 2	3 FED (
2. Name of Operator AVANT OPERATING LLC [330396]				9. API Well No.							
AVANT OPERATING LLC [330396] 3a. Address	3h Phone N	o. (include area cod	(e)	10. Field and Pool,		52443					
1515 WYNKOOP STREET, SUITE 700, DENVER, CO 80	1	,		TEAS/BONE SPR	_	[58960]					
4. Location of Well (Report location clearly and in accordance	with any State	requirements.*)		11. Sec., T. R. M. o		d Survey or Area					
At surface SWSE / 200 FSL / 2097 FEL / LAT 32.5519			000101	SEC 23/T20S/R33	3E/NMP						
At proposed prod. zone NWNE / 100 FNL / 2640 FEL / L		112 / LONG -103.6	339134			T					
14. Distance in miles and direction from nearest town or post off 23 miles	fice*			12. County or Paris LEA	h	13. State					
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac	eres in lease	17. Spacin	ng Unit dedicated to	this well						
18 Distance from proposed location*	19. Propose	d Depth	20. BLM/	BIA Bond No. in file	;						
to nearest well, drilling, completed, applied for, on this lease, ft.	10750 feet	/ 15700 feet	FED: NM	1B001882							
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3632 feet	22. Approxi	mate date work will	start*	23. Estimated durat	ion						
	24. Attac	hments		1							
The following, completed in accordance with the requirements of (as applicable)			, and the F	Hydraulic Fracturing	rule per 4	13 CFR 3162.3-3					
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover th Item 20 above).	e operation	s unless covered by a	n existin	g bond on file (see					
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		5. Operator certific 6. Such other site sp BLM.		mation and/or plans a	s may be	requested by the					
25. Signature (Electronic Submission)		(Printed/Typed) N WOOD / Ph: (72	0) 746-50	45	Date 06/20/	2023					
Title											
President Approved by (Signature)	N	(D.::			Date						
(Electronic Submission)	I	(Printed/Typed) STOPHER WALLS	/ Ph: (57	5) 234-2234	01/04/	2024					
Title Petroleum Engineer	Office Carlsh	oad Field Office									
Application approval does not warrant or certify that the application 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 w	hich wo	uld entitle the					
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements					any depa	rtment or agency					
NGMP Rec 01/11/2024											
		TH CONDIT	IONS	01	\ 17/20	í24					
SL	wen WI	III COMPA									

Released to Imaging: 1/17/2024 2:35:38 PM Approval Date: 01/04/2024

(Continued on page 2)

DISTRICT J
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT JI
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT JII
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 478-3460 Fax: (505) 478-3482 WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 30-025-	*Pool Code 52443 58960	*Pool Name TEAS; BONE SPRING							
Property Code	⁶ Property	Name Well Number							
334758	SANDRA JEAN	23 FED COM 653H							
OGRID No.	⁸ Operator	Name Elevation							
330396	330396 AVANT OPERATING, LLC								

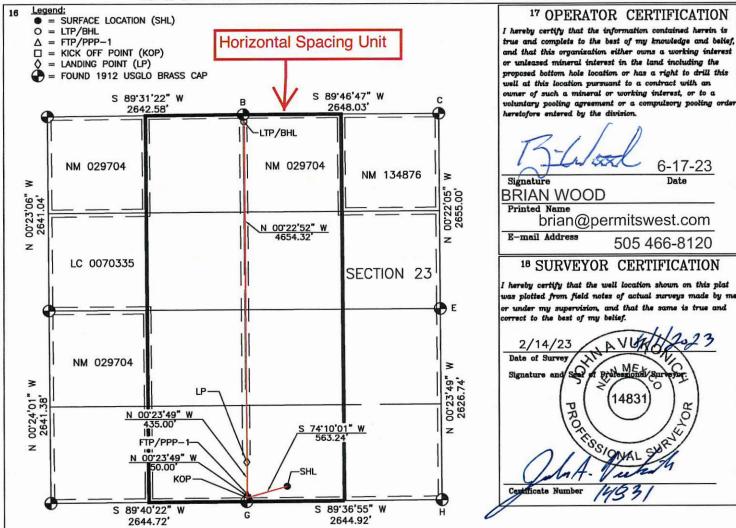
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	20 S	33 E		200	SOUTH	2097	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	orth/South line Feet from the East/West		County
В	23	20 S	33 E		100	NORTH	2640	EAST	LEA
18 Dedicated Acre	5	the second distribution				18 Joint or Infill 1	Consolidation Code	15 Order No.	
SECTION 23	6: W/2 E	/2, E/2	W/2; 320	Ac. To	OTAL: 320 Ac.		С		

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



SURFACE LOCATION NAD 83 NME, NMSPC ZONE 3001 Y= 565233.35 N X= 757386.18 E LAT: 32.5519278' N LONG: 103.6321499' W KICK OFF POINT
NAD 83 NME, NMSPC ZONE 3001
50' FSL, 2640' FEL
SEC. 23, T2OS, R33E
Y= 565079.68 N
X= 756844.31 E
LAT: 32.5515152' N
LONG: 103.6339116' W

FIRST TAKE POINT/PPP-1
NAD 83 NME, NMSPC ZONE 3001
100' FSL, 2640' FEL
SEC. 23, T20S, R33E
Y= 565129.68 N
X= 756843.97 E
LAT: 32.5516527' N
LONG: 103.6339117' W

LANDING POINT
NAD 83 NME, NMSPC ZONE 3001
535' FSL, 2640' FEL
SEC. 23, T20S, R33E
Y= 565564.67 N
X= 756840.96 E
LAT: 32.5528483' N
LONG: 103.6339122' W

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001
B - Y= 570318.86 N, X= 756801.34 E
C - Y= 570329.03 N, X= 759449.35 E
E - Y= 567674.09 N, X= 759466.41
G - Y= 565029.65 N, X= 756839.74 E
H - Y= 565047.41 N, X= 759484.60 E

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001

B - LAT.=32.5659162* N, LONG.=103.6339394* W
C - LAT.=32.5658960* N, LONG.=103.6253443* W
E - LAT.=32.5585985* N, LONG.=103.6253423* W
G - LAT.=32.5513778* N, LONG.=103.6339276* W
H - LAT.=32.5513778* N, LONG.=103.6253439* W

LAST TAKE POINT/
BOTTOM HOLE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 570218.89 N
X= 756810.01 E
LAT: 32.5656412' N
LONG: 103.6339134' W

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:	1/09/2024
-----------------------------------	----------------------	-------	-----------

II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.

If Other, please describe:

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Sandra Jean 23 Fed Com 503H		P-23-T20S-R33E	200FSL/2077FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 603H		P-23-T20S-R33E	200FSL/2057FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 652H		P-23-T18S-R32E	200FSL/2037FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 653H		P-23-T18S-R32E	200FSL/2097FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 752H		P-23-T18S-R32E	200FSL/2017FEL	1200 BBL/D	2100 MCF/D	6000 BBL/D
Sandra Jean 23 Fed Com 753H		P-23-T18S-R32E	200FSL/2117FEL	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 503H		08/19/2024	10/22/2024	12/22/2024	02/14/2025	02/14/2025
Sandra Jean 23 Fed Com 603H		08/19/2024	10/22/2024	12/22/2024	02/14/2025	02/14/2025
Sandra Jean 23 Fed Com 652H		08/19/2024	10/22/2024	12/22/2024	02/14/2025	02/14/2025
Sandra Jean 23 Fed Com 653H		08/19/2024	10/22/2024	12/22/2024	02/14/2025	02/14/2025
Sandra Jean 23 Fed Com 752H		08/19/2024	10/22/2024	12/22/2024	02/14/2025	02/14/2025
Sandra Jean 23 Fed Com 753H		08/19/2024	10/22/2024	12/22/2024	02/14/2025	02/14/2025

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.

Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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: VP of Geosciences
E-mail Address: John@avantnr.com
Date: 01/09/24
Phone: 678-988-6644
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 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 (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.
 - 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

Drilling Plan Data Report

01/05/2024

APD ID: 10400092994

Submission Date: 06/20/2023

Highlighted data reflects the most recent changes

Operator Name: AVANT OPERATING LLC

Well Number: 653H

Well Name: SANDRA JEAN 23 FED COM Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12686237	QUATERNARY	3632	0	0	OTHER : Caliche	USEABLE WATER	N
12686238	RUSTLER ANHYDRITE	2204	1428	1428	ANHYDRITE	NONE	N
12686239	YATES	432	3200	3202	SANDSTONE	NATURAL GAS, OIL	N
12686240	CAPITAN REEF	39	3593	3596	LIMESTONE	USEABLE WATER	N
12686241	CHERRY CANYON	-1618	5250	5257	SANDSTONE	NATURAL GAS, OIL	N
12686242	BRUSHY CANYON	-3068	6700	6711	SANDSTONE	NATURAL GAS, OIL	N
12686243	BONE SPRING LIME	-4689	8321	8336	LIMESTONE	NATURAL GAS, OIL	N
12686244	BONE SPRING 1ST	-5763	9395	9413	SANDSTONE	NATURAL GAS, OIL	N
12686245	BONE SPRING 2ND	-6277	9909	9928	SANDSTONE	NATURAL GAS, OIL	N
12686236	BONE SPRING 3RD	-6804	10436	10458	OTHER : Carbonate	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.

Well Name: SANDRA JEAN 23 FED COM Well Number: 653H

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 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 in the drill string. Full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections 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 20230620124442.pdf

BOP Diagram Attachment:

SJ_BOP_20230620124450.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	3632	2179	1453	J-55	94	LT&C	1.12 5	1.12 5	DRY	1.6	DRY	1.6
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	3406	0	3403	3632	229	3406	J-55	54.5	LT&C	1.12 5	1.12 5	DRY	1.6	DRY	1.6
3	INTERMED IATE	12.2 5	9.625	NEW	API	Y	0	4000	0	3996	3632	-364	4000	J-55	40	LT&C	l	1.12 5	DRY	1.6	DRY	1.6
4	INTERMED IATE	12.2 5	9.625	NEW	API	Y	4000	5201	3996	5200	-364	-1568	1201	HCL -80	40	LT&C		1.12 5	DRY	1.6	DRY	1.6
5	PRODUCTI ON	8.75	5.5	NEW	NON API	N	0	11041	0	10750	3632	-7118	11041	HCP -110		l .	1.12 5	1.12 5	DRY	1.6	DRY	1.6
6	PRODUCTI ON	8.5	5.5	NEW	NON API	N	11041	15700	10750	10750	-7118	-7118	4659	HCP -110	-	OTHER - GBCD	l	1.12 5	DRY	1.6	DRY	1.6

Well Name: SANDRA JEAN 23 FED COM Well Number: 653H

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SJ_653H_Casing_Design_Assumptions_20230620124520.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SJ_653H_Casing_Design_Assumptions_20230620124540.pdf

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

SJ_653H_Casing_Design_Assumptions_20230620124605.pdf

Casing Design Assumptions and Worksheet(s):

SJ_653H_Casing_Design_Assumptions_20230620124611.pdf

Well Name: SANDRA JEAN 23 FED COM

Well Number: 653H

Casing Attachments

Casing ID: 4

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

SJ_653H_Casing_Design_Assumptions_20230620124631.pdf

Casing Design Assumptions and Worksheet(s):

SJ_653H_Casing_Design_Assumptions_20230620124638.pdf

Casing ID: 5

String

PRODUCTION

Inspection Document:

Spec Document:

5.5in_Casing_Spec_20230620124657.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 6

PRODUCTION

Inspection Document:

Spec Document:

5.5in_Casing_Spec_20230620124722.pdf

String

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SJ_653H_Casing_Design_Assumptions_20230620124731.pdf

Section 4 - Cement

Well Name: SANDRA JEAN 23 FED COM Well Number: 653H

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	1795	35	35% Class B Poz + 65% Class C	6% gel + 5% salt + ¼ #/sack poly flake + 0.005 gal/sack No Foam V1A
SURFACE	Tail		0	1453	320	1.33	14.8	425	35	Class C	1% CaCl2 + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Lead		0	3406	1480	1.9	12.8	2812	40	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		0	3406	445	1.36	14.2	605	40	Class C	1% CaCl2 + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Lead		0	4000	840	1.9	12.8	1596	20	35% Class B Poz + 65% Class C	6% gel + 5% salt + 0.4% R-1300 + ¼ #/sack poly flake + 0.005 gal/sack No Foam V1A
INTERMEDIATE	Tail		4000	5201	300	1.36	14.2	408	20	Class C	1% CaCl2 + 0.005 gal/sack No Foam V1A
PRODUCTION	Lead		0	1570 0	975	3.38	10.7	3295	20	100% Class H	5 #/sk Plexcrete + 2% SMS + 0.65% R-1300 + 0.2% FL-24 + 3 #/sk gilsonite + 0.005% gal/sk No Foam V1A
PRODUCTION	Tail		0	1570 0	1255	1.21	14.5	1518	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

Well Name: SANDRA JEAN 23 FED COM Well Number: 653H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1453	OTHER : Fresh Water	8.4	10							
1453	3406	OTHER : Brine	10	10.5							
3406	5201	OTHER : Fresh Water	8.4	8.6							
5201	1104 1	OIL-BASED MUD	9.2	9.5							
1104 1	1570 0	OIL-BASED MUD	9.5	9.8							

Well Name: SANDRA JEAN 23 FED COM Well Number: 653H

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: 5031 Anticipated Surface Pressure: 2665

Anticipated Bottom Hole Temperature(F): 173

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

SJ_Pad2_H2S_Plan_20230620125003.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SJ_653H_Horizontal_Plan_20230620125019.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_653H_Drill_Plan_20230620125049.pdf

SJ CoFlex Certs 20230620125101.pdf

SJ_653H_Anti_Collision_Report_20230620125109.pdf

SJ_653H_Speedhead_Specs_20230620125138.pdf

Other Variance attachment:

SJ_Casing_Cementing_Variance_Request_20230620125029.pdf



WELL DETAILS: Sandra Jean 23 Fed Com 653H

Ground Elev: 3632.0 KB: 3658.5

+N/-S +E/-W Northing Easting Latittude Longitude 0.0 0.0 565233.35 757386.17 32.5519278°N 103.6321499°W

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

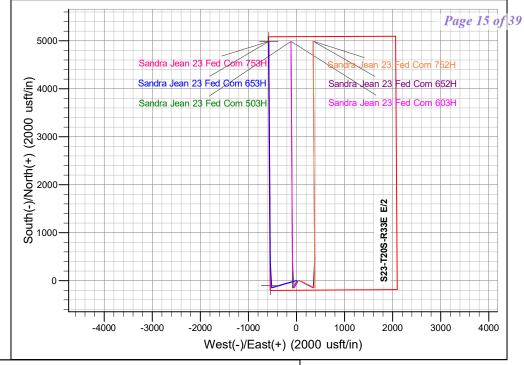
Geodetic System: US State Plane 1983

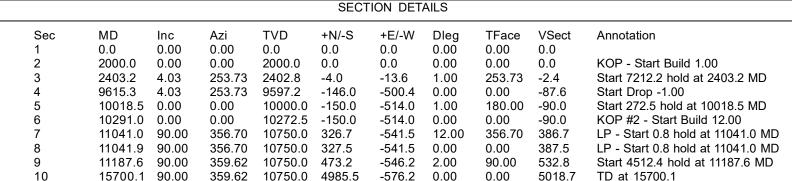
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

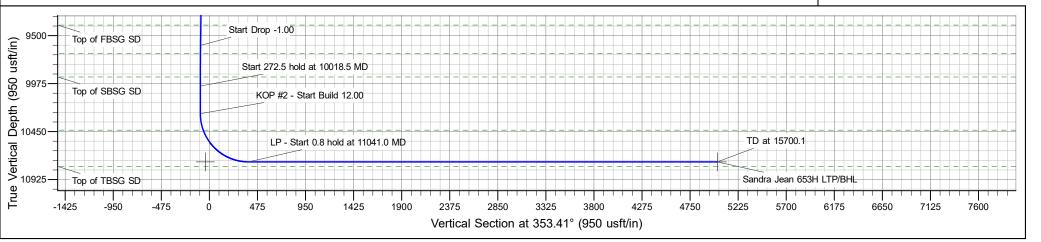
System Datum: Mean Sea Level





M Azimuths to Grid North
True North: -0.38°
Magnetic North: 8.24°

Magnetic Field
Strength: 49613.8nT
Dip Angle: 60.74°
Date: 12/31/2004
Model: IGRF2000







Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Sandra Jean 23 Fed Com Pac

Sandra Jean 23 Fed Com Pad 2 Sandra Jean 23 Fed Com 653H

Wellbore: OH
Design: Plan 0.1

Well:

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Sandra Jean 23 Fed Com 653H

(°) 353.41

WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5)

Grid

Minimum Curvature

Project Lea Co., NM (NAD 83)

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

System Datum:

Mean Sea Level

Site Sandra Jean 23 Fed Com Pad 2

 Site Position:
 Northing:
 565,233.85 usft
 Latitude:
 32.5519277°N

 From:
 Lat/Long
 Easting:
 757,466.12 usft
 Longitude:
 103.6318904°W

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

(usft)

0.0

Well Sandra Jean 23 Fed Com 653H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 565,233.36 usft
 Latitude:
 32.5519278°N

 +E/-W
 0.0 usft
 Easting:
 757,386.16 usft
 Longitude:
 103.6321499°W

 +E/-W
 0.0 usft
 Easting:
 757,386.16 usft
 Longitude:
 103.6321499°W

 Position Uncertainty
 0.0 usft
 Wellhead Elevation:
 usft
 Ground Level:
 3,632.0 usft

Grid Convergence: 0.38 °

ОН Wellbore **Model Name** Declination Field Strength Magnetics Sample Date Dip Angle (°) (°) (nT) IGRF2000 49,613.83087937 12/31/2004 8.62 60.74

 Design
 Plan 0.1

 Audit Notes:
 Phase:
 PROTOTYPE
 Tie On Depth:
 0.0

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

(usft)

0.0

(usft)

0.0

 Plan Survey Tool Program
 Date
 6/10/2023

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

 1
 0.0
 15,700.0
 Plan 0.1 (OH)
 B001Mb_MWD+HRGM

OWSG MWD + HRGM





Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)

Site: Sandra Jean 23 Fed Com Pad 2
Well: Sandra Jean 23 Fed Com 653H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Sandra Jean 23 Fed Com 653H

WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5)

Grid

lan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,403.2	4.03	253.73	2,402.8	-4.0	-13.6	1.00	1.00	0.00	253.73	
9,615.3	4.03	253.73	9,597.2	-146.0	-500.4	0.00	0.00	0.00	0.00	
10,018.5	0.00	0.00	10,000.0	-150.0	-514.0	1.00	-1.00	0.00	180.00	
10,291.0	0.00	0.00	10,272.5	-150.0	-514.0	0.00	0.00	0.00	0.00	
11,041.0	90.00	356.70	10,750.0	326.7	-541.5	12.00	12.00	0.00	356.70	
11,041.9	90.00	356.70	10,750.0	327.5	-541.5	0.00	0.00	0.00	0.00	
11,187.6	90.00	359.62	10,750.0	473.2	-546.2	2.00	0.00	2.00	90.00	
15,700.1	90.00	359.62	10,750.0	4,985.5	-576.2	0.00	0.00	0.00	0.00	Sandra Jean 653H L





Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Sandra Jean 23 Fed Com Pad 2

Well: Sandra Jean 23 Fed Com 653H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well Sandra Jean 23 Fed Com 653H

WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5)

Grid

1;	Fiail U. I								
ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0				0.00	
					0.0	0.0	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
1,400.0	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			,		2.3	2.3			
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	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	0.00	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
		0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start									
2,100.0	1.00	253.73	2,100.0	-0.2	-0.8	-0.1	1.00	1.00	0.00
2,200.0	2.00	253.73	2,200.0	-1.0	-3.4	-0.6	1.00	1.00	0.00
2,300.0	3.00	253.73	2,299.9	-2.2	-7.5	-1.3	1.00	1.00	0.00
2,300.0	3.00	200.10	∠,∠عع.ع	-2.2	-1.5	-1.3	1.00	1.00	0.00
2,400.0	4.00	253.73	2,399.7	-3.9	-13.4	-2.3	1.00	1.00	0.00
2,403.2	4.03	253.73	2,402.8	-4.0	-13.6	-2.4	1.00	1.00	0.00
			2, 402.0	-7.0	- 10.0	-2	1.00	1.00	0.00
	hold at 2403.2 N								
2,500.0	4.03	253.73	2,499.4	-5.9	-20.1	-3.5	0.00	0.00	0.00
2,600.0	4.03	253.73	2,599.2	-7.8	-26.9	-4.7	0.00	0.00	0.00
2,700.0	4.03	253.73	2,698.9	-9.8	-33.6	-5.9	0.00	0.00	0.00
2,800.0	4.03	253.73	2,798.7	-11.8	-40.4	-7.1	0.00	0.00	0.00
2,900.0	4.03	253.73	2,898.4	-13.8	-47.1	-8.3	0.00	0.00	0.00
		253.73		-15.7					
3,000.0	4.03		2,998.2		-53.9	-9.4	0.00	0.00	0.00
3,100.0	4.03	253.73	3,097.9	-17.7	-60.6	-10.6	0.00	0.00	0.00
3,200.0	4.03	253.73	3,197.7	-19.7	-67.4	-11.8	0.00	0.00	0.00
3,202.3	4.03	253.73	3,200.0	-19.7	-67.5	-11.8	0.00	0.00	0.00
YATES									
3.300.0	4.03	253.73	3,297.4	-21.6	-74.1	-13.0	0.00	0.00	0.00
.,									
3,400.0	4.03	253.73	3,397.2	-23.6	-80.9	-14.2	0.00	0.00	0.00
3,500.0	4.03	253.73	3,497.0	-25.6	-87.6	-15.3	0.00	0.00	0.00
3,596.3	4.03	253.73	3,593.0	-27.5	-94.1	-16.5	0.00	0.00	0.00
CAPITAN RI			-,		÷*				
CAPITAN KI	LLF								
3,600.0	4.03	253.73	3,596.7	-27.5	-94.4	-16.5	0.00	0.00	0.00
3,700.0	4.03	253.73	3,696.5	-29.5	-101.1	-17.7	0.00	0.00	0.00
3,800.0	4.03	253.73	3,796.2	-31.5	-107.9	-18.9	0.00	0.00	0.00
3,900.0	4.03	253.73	3,896.0	-33.5	-114.6	-20.1	0.00	0.00	0.00
4,000.0	4.03	253.73	3,995.7	-35.4	-121.4	-21.3	0.00	0.00	0.00
4,000.0	4.03	200.10	3,883.1	-35.4	-121.4	-21.3	0.00	0.00	0.00
4,100.0	4.03	253.73	4,095.5	-37.4	-128.1	-22.4	0.00	0.00	0.00
		255.75							
4,200.0	4.03	253.73	4,195.2	-39.4	-134.9	-23.6	0.00	0.00	0.00
4,300.0	4.03	253.73	4,295.0	-41.3	-141.6	-24.8	0.00	0.00	0.00
4,400.0	4.03	253.73	4,394.7	-43.3	-148.4	-26.0	0.00	0.00	0.00





Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Sandra Jean 23 Fed Com Pad 2

Well: Sandra Jean 23 Fed Com 653H

Wellbore: OH
Design: Plan 0.1

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

Survey Calculation Method:

Well Sandra Jean 23 Fed Com 653H WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5) Grid

ned 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	4.03	253.73	4,494.5	-45.3	-155.1	-27.2	0.00	0.00	0.00
4,600.0	4.03	253.73	4,594.2	-47.2	-161.9	-28.3	0.00	0.00	0.00
4,700.0	4.03	253.73	4,694.0	-49.2	-168.6	-29.5	0.00	0.00	0.00
4,800.0	4.03	253.73	4,793.7	-51.2	-175.4	-30.7	0.00	0.00	0.00
4,900.0	4.03	253.73	4,893.5	-53.2	-182.1	-31.9	0.00	0.00	0.00
5,000.0	4.03	253.73	4,993.2	-55.1	-188.9	-33.1	0.00	0.00	0.00
5,100.0	4.03	253.73	5,093.0	-57.1	-195.6	-34.3	0.00	0.00	0.00
5,200.0	4.03	253.73	5,192.7	-59.1	-202.4	-35.4	0.00	0.00	0.00
5,257.4	4.03	253.73	5,250.0	-60.2	-206.3	-36.1	0.00	0.00	0.00
CHERRY CA			5,2555						
5,267.4	4.03	253.73	5,260.0	-60.4	-206.9	-36.2	0.00	0.00	0.00
DELAWARE			5,=55.5						
5,300.0	4.03	253.73	5,292.5	-61.0	-209.1	-36.6	0.00	0.00	0.00
5,400.0	4.03	253.73	5,392.3	-63.0	-215.9	-37.8	0.00	0.00	0.00
5,500.0	4.03	253.73	5,492.0	-65.0	-222.6	-39.0	0.00	0.00	0.00
5,600.0	4.03	253.73	5,591.8	-66.9	-229.4	-40.2	0.00	0.00	0.00
5,700.0	4.03	253.73	5,691.5	-68.9	-236.1	-41.3	0.00	0.00	0.00
5,800.0	4.03	253.73	5,791.3	-70.9	-242.9	-42.5	0.00	0.00	0.00
5,900.0	4.03	253.73	5,891.0	-72.8	-249.6	-43.7	0.00	0.00	0.00
6,000.0	4.03	253.73	5,990.8	-74.8	-256.4	-44.9	0.00	0.00	0.00
6,100.0	4.03	253.73	6,090.5	-76.8	-263.1	-46.1	0.00	0.00	0.00
6,200.0	4.03	253.73	6,190.3	-78.8	-269.9	-47.3	0.00	0.00	0.00
6,300.0	4.03	253.73	6,290.0	-80.7	-276.6	-48.4	0.00	0.00	0.00
6,400.0	4.03	253.73	6,389.8	-82.7	-283.4	-49.6	0.00	0.00	0.00
6,500.0	4.03	253.73	6,489.5	-84.7	-290.1	-50.8	0.00	0.00	0.00
6,600.0	4.03	253.73	6,589.3	-86.6	-296.9	-52.0 52.0	0.00	0.00	0.00
6,700.0 6,711.0	4.03	253.73	6,689.0	-88.6	-303.6	-53.2	0.00 0.00	0.00	0.00
6,711.0 BRUSHY CA	4.03 NYON	253.73	6,700.0	-88.8	-304.4	-53.3	0.00	0.00	0.00
		050.70	6 700 0	00.0	240.4	540	0.00	0.00	0.00
6,800.0 6,900.0	4.03 4.03	253.73 253.73	6,788.8	-90.6	-310.4 317.1	-54.3	0.00 0.00	0.00 0.00	0.00 0.00
6,900.0 7,000.0	4.03 4.03	253.73 253.73	6,888.5 6,988.3	-92.5 -94.5	-317.1 -323.9	-55.5 -56.7	0.00	0.00	0.00
7,100.0	4.03	253.73	7,088.0	-94.5 -96.5	-330.6	-50.7 -57.9	0.00	0.00	0.00
7,100.0	4.03	253.73	7,187.8	-98.5	-337.4	-57.3	0.00	0.00	0.00
7,300.0 7,400.0	4.03	253.73 253.73	7,287.5 7,387.3	-100.4 -102.4	-344.1 -350.9	-60.3 -61.4	0.00 0.00	0.00 0.00	0.00
7,400.0 7,500.0	4.03 4.03	253.73 253.73	7,387.3 7,487.1	-102.4 -104.4	-350.9 -357.6	-61.4 -62.6	0.00	0.00	0.00 0.00
7,500.0 7.600.0	4.03	253.73	7,467.1 7,586.8	-104.4	-364.4	-62.6 -63.8	0.00	0.00	0.00
7,700.0	4.03	253.73	7,686.6	-108.3	-371.1	-65.0	0.00	0.00	0.00
7,800.0	4.03	253.73	7,786.3	-110.3	-377.9	-66.2	0.00	0.00	0.00
7,900.0	4.03	253.73	7,786.3	-110.3	-384.6	-67.3	0.00	0.00	0.00
8,000.0	4.03	253.73	7,985.8	-114.2	-391.4	-68.5	0.00	0.00	0.00
8,100.0	4.03	253.73	8,085.6	-116.2	-398.1	-69.7	0.00	0.00	0.00
8,200.0	4.03	253.73	8,185.3	-118.2	-404.9	-70.9	0.00	0.00	0.00
8.300.0	4.03		8,285.1	-120.1	-411.6	-72.1	0.00	0.00	0.00
8,300.0 8,336.0	4.03	253.73 253.73	8,285.1 8,321.0	-120.1 -120.8	-411.6 -414.0	-72.1 -72.5	0.00	0.00	0.00
		200.10	0,321.0	-120.0	-414.0	-12.3	0.00	0.00	0.00
Top of BSGL 8,400.0		252.72	0 201 0	122.1	110 A	72.2	0.00	0.00	0.00
8,400.0 8,500.0	4.03 4.03	253.73 253.73	8,384.8 8,484.6	-122.1 -124.1	-418.4 -425.1	-73.3 -74.4	0.00 0.00	0.00 0.00	0.00
8,600.0	4.03	253.73	8,584.3	-124.1	-423.1 -431.9	-74.4 -75.6	0.00	0.00	0.00
8,700.0	4.03	253.73	8,684.1	-128.0	-438.6	-76.8	0.00	0.00	0.00
8,800.0	4.03	253.73	8,783.8	-130.0	-445.4	-78.0 -79.2	0.00 0.00	0.00	0.00

NATURAL RESOURCES

Planning Report



Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Sandra Jean 23 Fed Com Pad

Sandra Jean 23 Fed Com Pad 2 Sandra Jean 23 Fed Com 653H

Wellbore: OH
Design: Plan 0.1

Well:

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Sandra Jean 23 Fed Com 653H

WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.0 9,100.0	4.03 4.03	253.73 253.73	8,983.3 9,083.1	-133.9 -135.9	-458.9 -465.6	-80.3 -81.5	0.00 0.00	0.00 0.00	0.00 0.00
9,200.0 9,300.0 9,400.0 9,412.7	4.03 4.03 4.03 4.03	253.73 253.73 253.73 253.73	9,182.8 9,282.6 9,382.4 9,395.0	-137.8 -139.8 -141.8 -142.0	-472.4 -479.1 -485.9 -486.7	-82.7 -83.9 -85.1 -85.2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Top of FBSG	SD								
9,500.0 9,600.0 9,615.3	4.03 4.03 4.03	253.73 253.73 253.73	9,482.1 9,581.9 9,597.2	-143.8 -145.7 -146.0	-492.6 -499.4 -500.4	-86.3 -87.4 -87.6	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Start Drop -1 9,695.3		253.73	9,677.0	-147.4	-505.3	-88.5	1.00	-1.00	0.00
Top of SBS0 9,700.0	3.19	253.73	9,681.7	-147.5	-505.5	-88.5	1.00	-1.00	0.00
9,800.0 9,900.0	2.19 1.19	253.73 253.73	9,781.5 9,881.5	-148.8 -149.7	-510.0 -512.8	-89.3 -89.8	1.00 1.00	-1.00 -1.00	0.00 0.00
9,927.5	0.91	253.73	9,881.5	-149.7 -149.8	-512.8 -513.3	-89.9	1.00	-1.00	0.00
Top of SBSG 10,000.0 10,018.5	0.19 0.00	253.73 0.00	9,981.5 10,000.0	-150.0 -150.0	-514.0 -514.0	-90.0 -90.0	1.00 1.00	-1.00 -1.00	0.00 0.00
Start 272.5 h	old at 10018.5 N	1D							
10,100.0	0.00	0.00	10,081.5	-150.0	-514.0	-90.0	0.00	0.00	0.00
10,200.0 10,291.0	0.00 0.00	0.00 0.00	10,181.5 10,272.5	-150.0 -150.0	-514.0 -514.0	-90.0 -90.0	0.00 0.00	0.00 0.00	0.00 0.00
	rt Build 12.00								
10,300.0 10,400.0 10,457.9	1.07 13.07 20.02	356.70 356.70 356.70	10,281.5 10,380.5 10,436.0	-149.9 -137.6 -121.2	-514.0 -514.7 -515.7	-89.9 -77.6 -61.2	12.00 12.00 12.00	12.00 12.00 12.00	0.00 0.00 0.00
Top of TBSG		000.10	10,100.0	121.2	010.7	01.2	12.00	12.00	0.00
10,500.0 10,600.0 10,700.0	25.07 37.07 49.07	356.70 356.70 356.70	10,474.9 10,560.4 10,633.3	-105.1 -53.6 14.4	-516.6 -519.5 -523.5	-45.1 6.4 74.4	12.00 12.00 12.00	12.00 12.00 12.00	0.00 0.00 0.00
Sandra Jean									
10,800.0 10,900.0	61.07 73.07	356.70 356.70	10,690.4 10,729.3	96.1 187.9	-528.2 -533.5	156.1 247.9	12.00 12.00	12.00 12.00	0.00 0.00
11,000.0 11,041.0	85.07 90.00	356.70 356.70	10,748.2 10,750.0	285.7 326.7	-539.1 -541.5	345.7 386.7	12.00 12.00	12.00 12.00	0.00 0.00
LP - Start 0.8 11,041.9	3 hold at 11041.0 90.00	356.70	10,750.0	327.5	-541.5	387.5	0.00	0.00	0.00
	00 TFO 90.00	2000	,	220	55	300	5.55	0.00	0.00
11,100.0 11,187.6	90.00 90.00	357.87 359.62	10,750.0 10,750.0	385.6 473.2	-544.3 -546.2	445.5 532.8	2.00 2.00	0.00 0.00	2.00 2.00
Start 4512.4	hold at 11187.6	MD							
11,200.0 11,300.0 11,400.0 11,500.0 11,600.0	90.00 90.00 90.00 90.00 90.00	359.62 359.62 359.62 359.62 359.62	10,750.0 10,750.0 10,750.0 10,750.0 10,750.0	485.5 585.5 685.5 785.5 885.5	-546.3 -546.9 -547.6 -548.3 -548.9	545.0 644.4 743.9 843.3 942.7	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
11,700.0 11,800.0 11,900.0	90.00 90.00 90.00	359.62 359.62 359.62	10,750.0 10,750.0 10,750.0	985.5 1,085.5 1,185.5	-549.6 -550.2 -550.9	1,042.1 1,141.5 1,240.9	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
12,000.0 12,100.0	90.00 90.00	359.62 359.62	10,750.0 10,750.0 10,750.0	1,285.5 1,385.5	-551.6 -552.2	1,340.3 1,439.8	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

NATURAL RESOURCES

Planning Report



Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Sandra Jean 23 Fed Com Pad 2

Well: Sandra Jean 23 Fed Com 653H
Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Sandra Jean 23 Fed Com 653H WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5) Grid Minimum Curvature

Measured Depth (usft)	ign:	Plan 0.1								
Depth (ust)	nned Survey									
12,300.0 90.00 359.62 10,750.0 1,585.5 -553.6 1,638.6 0.00 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 1,685.5 -554.2 1,738.0 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 1,885.5 -555.6 1,936.8 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 1,885.5 -555.6 1,936.8 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 1,885.5 -556.2 2,036.2 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 2,885.5 -556.9 2,135.6 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 2,285.5 -556.9 2,135.6 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -556.2 2,334.5 0.00 0.00 0.00 13,100.0 90.00 359.62 10,750.0 2,285.5 -556.9 2,433.9 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -556.9 2,433.9 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -556.9 2,433.9 0.00 0.00 0.00 13,400.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,632.7 0.00 0.00 0.00 13,400.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,632.7 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,331.5 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,331.5 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,330.9 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,330.9 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,330.9 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,330.9 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,327.4 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00	Depth			Depth			Section	Rate	Rate	Rate
12,400.0 90.00 359.62 10,750.0 1,885.5 -554.9 1,837.4 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 1,785.5 -555.6 1,986.8 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 1,885.5 -555.6 1,986.8 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 1,885.5 -555.6 1,986.8 0.00 0.00 0.00 0.00 12,500.0 90.00 359.62 10,750.0 2,885.5 -556.9 2,135.6 0.00 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,885.5 -556.9 2,235.1 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,885.5 -556.9 2,334.5 0.00 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,885.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,885.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,885.5 -556.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -561.5 2,831.5 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -561.5 2,831.5 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 3,885.5 -562.9 3,303.0 4 0.00 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,885.5 -564.2 3,229.2 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 4,854.4 -571.5 4,322.7 0.00 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,854.4 -571.5 4,322.7 0.00 0.00 0.	12,200.0	90.00	359.62	10,750.0	1,485.5	-552.9	1,539.2	0.00	0.00	0.00
12,500.0 90.00 359.62 10,750.0 1,785.5 5.56.4 9 1,837.4 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 1,885.5 -555.6 1,936.8 0.00 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 2,085.5 -556.2 2,335.6 0.00 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 2,085.5 -556.2 2,335.1 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,855.5 -556.2 2,334.5 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,385.5 -556.2 2,334.5 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,385.5 -556.9 2,433.9 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,385.5 -556.9 2,433.9 0.00 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,385.5 -556.9 2,533.3 0.00 0.00 0.00 0.00 13,400.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,632.7 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,632.7 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,831.5 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.5 2,831.5 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.5 2,831.5 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,900.0 90.00 359.62 10,750.0 3,885.5 -562.9 3,030.4 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,129.8 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,885.5 -566.5 3,428.0 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.5 3,822.6 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,825.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,825.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,825.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,825.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,825.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,825.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 4	12,300.0	90.00	359.62	10,750.0	1,585.5	-553.6	1,638.6	0.00	0.00	0.00
12,600.0 90.00 359.62 10,750.0 1,885.5 -555.6 1,936.8 0.00 0.00 0.00 12,700.0 90.00 359.62 10,750.0 1,985.5 -556.2 2,036.2 0.00 0.00 0.00 0.00 12,900.0 90.00 359.62 10,750.0 2,885.5 -556.2 2,351.1 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -557.6 2,235.1 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0.00 0.00 0.00 13,100.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -558.9 2,433.9 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -560.9 2,332.7 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -560.9 2,332.7 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,285.5 -560.9 2,732.1 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,285.5 -560.9 2,332.7 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,285.5 -561.5 2,831.5 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,285.5 -561.5 2,831.5 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,285.5 -562.2 2,390.9 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,285.5 -562.2 2,390.9 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 2,985.5 -562.2 2,390.9 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,885.5 -562.2 2,390.9 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -562.9 3,290.9 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.9 3,229.2 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.9 3,229.2 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,229.2 0.00 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,229.2 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,229.2 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,229.2 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,229.2 0.00 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 4,885.4 -571.5 4,322.7 0.00 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,885.4 -571.5 4,322.7 0.00 0.00 0.00 0.00	12,400.0	90.00	359.62	10,750.0	1,685.5	-554.2	1,738.0	0.00	0.00	0.00
12,700.0 90.00 359.62 10,750.0 1,985.5 -556.2 2,036.2 0.00 0.00 0.00 12,800.0 90.00 359.62 10,750.0 2,085.5 -556.9 2,135.6 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -556.9 2,135.6 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0.00 0.00 0.00 0.00 13,100.0 90.00 359.62 10,750.0 2,285.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,100.0 90.00 359.62 10,750.0 2,285.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,285.5 -559.5 2,533.3 0.00 0.00 0.00 0.00 13,400.0 90.00 359.62 10,750.0 2,285.5 -560.2 2,632.7 0.00 0.00 0.00 13,400.0 90.00 359.62 10,750.0 2,285.5 -560.2 2,632.7 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -560.2 2,332.1 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.9 2,732.1 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,855.5 -563.5 3,129.8 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,855.5 -563.5 3,129.8 0.00 0.00 0.00 13,900.0 90.00 359.62 10,750.0 3,855.5 -564.9 3,328.6 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,285.5 -564.9 3,328.6 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,285.5 -564.9 3,328.6 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,855.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,855.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,855.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,855.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,855.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,855.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,855.5 -568.8 3,925.1 0.00 0.00 0.00 0.00 15,100.0 90.00 359.62 10,750.0 4,855.4 -570.2 4,123.9 0.00 0.00 0.00 0.00 15,100.0 90.00 359.62 10,750.0 4,855.4 -570.2 4,123.9 0.00 0.00	12,500.0	90.00	359.62	10,750.0	1,785.5	-554.9	1,837.4	0.00	0.00	0.00
12,800.0 90.00 359.62 10,750.0 2,085.5 -556.9 2,135.6 0,00 0,00 0,00 12,900.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0,00 0,00 0,00 13,100.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0,00 0,00 0,00 0,00 13,100.0 90.00 359.62 10,750.0 2,385.5 -558.9 2,433.9 0,00 0,00 0,00 0,00 13,200.0 90.00 359.62 10,750.0 2,485.5 -559.5 2,533.3 0,00 0,00 0,00 0,00 13,400.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0,00 0,00 0,00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0,00 0,00 0,00 13,500.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,831.5 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,831.5 0,00 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,930.9 0,00 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,930.9 0,00 0,00 0,00 0,00 13,800.0 90.00 359.62 10,750.0 3,885.5 -561.2 2,930.9 0,00 0,00 0,00 0,00 13,800.0 90.00 359.62 10,750.0 3,885.5 -562.2 2,930.9 0,00 0,00 0,00 0,00 13,800.0 90.00 359.62 10,750.0 3,885.5 -561.3 3,129.8 0,00 0,00 0,00 0,00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.9 3,229.2 0,00 0,00 0,00 0,00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.9 3,229.2 0,00 0,00 0,00 0,00 14,100.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0,00 0,00 0,00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,628.8 0,00 0,00 0,00 0,00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 4,885.4 -571.8 4,231.3 0,00 0,00 0,00 0,00 15,500.0 90.00 359.62 10,750.0 4,885.4 -572.2 4,422.1 0,00 0,00 0,00 0,00 15,500.0 90.00 359.	12,600.0	90.00	359.62	10,750.0	1,885.5	-555.6	1,936.8	0.00	0.00	0.00
12,800.0 90.00 359.62 10,750.0 2,085.5 -556.9 2,135.6 0,00 0,00 0,00 12,900.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0,00 0,00 0,00 13,100.0 90.00 359.62 10,750.0 2,285.5 -558.2 2,334.5 0,00 0,00 0,00 0,00 13,100.0 90.00 359.62 10,750.0 2,385.5 -558.9 2,433.9 0,00 0,00 0,00 0,00 13,200.0 90.00 359.62 10,750.0 2,485.5 -559.5 2,533.3 0,00 0,00 0,00 0,00 13,400.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0,00 0,00 0,00 13,500.0 90.00 359.62 10,750.0 2,885.5 -560.9 2,732.1 0,00 0,00 0,00 13,500.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,831.5 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,831.5 0,00 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,831.5 0,00 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,930.9 0,00 0,00 0,00 0,00 13,600.0 90.00 359.62 10,750.0 2,885.5 -561.2 2,930.9 0,00 0,00 0,00 0,00 13,800.0 90.00 359.62 10,750.0 3,885.5 -562.2 2,930.9 0,00 0,00 0,00 0,00 13,800.0 90.00 359.62 10,750.0 3,885.5 -561.3 3,129.8 0,00 0,00 0,00 0,00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.9 3,229.2 0,00 0,00 0,00 0,00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.9 3,229.2 0,00 0,00 0,00 0,00 14,100.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,527.4 0,00 0,00 0,00 0,00 14,100.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,527.4 0,00 0,00 0,00 0,00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 3,885.5 -566.9 3,626.8 0,00 0,00 0,00 0,00 14,600.0 90.00 359.62 10,750.0 4,885.4 -571.8 4,231.3 0,00 0,00 0,00 0,00 15,500.0 90.00 359.62 10,750.0 4,885.4 -571.8 4,231.3 0,00 0,00 0,00 0,00	12.700.0	90.00	359.62	10.750.0	1.985.5	-556.2	2.036.2	0.00	0.00	0.00
12,900.0 90.00 359.62 10,750.0 2,185.5 -567.6 2,235.1 0.00 0.00 0.00 13,000.0 90.00 359.62 10,750.0 2,285.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,200.0 90.00 359.62 10,750.0 2,385.5 -558.9 2,433.9 0.00 0.00 0.00 0.00 13,200.0 90.00 359.62 10,750.0 2,585.5 -560.2 2,632.7 0.00 0.00 0.00 13,300.0 90.00 359.62 10,750.0 2,585.5 -560.2 2,632.7 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,585.5 -560.2 2,632.7 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,585.5 -560.2 2,632.7 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,585.5 -561.5 2,831.5 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 3,885.5 -562.2 2,930.9 0.00 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 3,885.5 -563.5 3,129.8 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,885.5 -564.2 3,229.2 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,885.5 -564.2 3,229.2 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,885.5 -565.5 3,428.0 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,885.5 -565.5 3,428.0 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 4,885.4 -572.2 4,123.9 0.00 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 4,885.4 -572.2 4,123.9 0.00 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,885.4 -572.2 4,422.1 0.00 0.00 0.00 0.559.62 10,750.0 4,885.4 -574.2 4,720.4 0.00 0.00 0.00 0.559.62 10,750.0 4,885.4 -574.2 4,720.4 0.00 0.00 0.00 0.559.	,				,		,			0.00
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13,400.0 90.00 359.62 10,750.0 2,685.5 -560.9 2,732.1 0.00 0.00 0.00 13,500.0 90.00 359.62 10,750.0 2,785.5 -561.5 2,831.5 0.00 0.00 0.00 13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 13,700.0 90.00 359.62 10,750.0 3,085.5 -563.5 3,129.8 0.00 0.00 0.00 13,900.0 90.00 359.62 10,750.0 3,085.5 -563.5 3,129.8 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -564.2 3,229.2 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,885.5 -565.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,485.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,685.5 <	13,300.0	90.00	359.62	10,750.0	2,585.5	-560.2	2,632.7	0.00	0.00	0.00
13,600.0 90.00 359.62 10,750.0 2,885.5 -562.2 2,930.9 0.00 0.00 0.00 13,700.0 90.00 359.62 10,750.0 2,985.5 -562.9 3,030.4 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,085.5 -563.5 3,129.8 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,285.5 -564.2 3,229.2 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,885.5 -565.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,685.5 -566.2 3,527.4 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,685.5 -566.2 3,626.8 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 <	13,400.0	90.00	359.62		2,685.5	-560.9			0.00	0.00
13,700.0 90.00 359.62 10,750.0 2,985.5 -562.9 3,030.4 0.00 0.00 0.00 13,800.0 90.00 359.62 10,750.0 3,085.5 -563.5 3,129.8 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,285.5 -564.2 3,229.2 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,285.5 -564.9 3,328.6 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,485.5 -566.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,485.5 -566.2 3,527.4 0.00 0.00 0.00 14,300.0 90.00 359.62 10,750.0 3,785.5 -566.9 3,626.8 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -566.9 3,626.8 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,785.5 <	13,500.0	90.00	359.62	10,750.0	2,785.5	-561.5	2,831.5	0.00	0.00	0.00
13,800.0 90.00 359.62 10,750.0 3,085.5 -563.5 3,129.8 0.00 0.00 0.00 13,900.0 90.00 359.62 10,750.0 3,185.5 -564.2 3,229.2 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,285.5 -564.9 3,328.6 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,885.5 -566.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,885.5 -566.2 3,527.4 0.00 0.00 0.00 14,300.0 90.00 359.62 10,750.0 3,685.5 -566.9 3,626.8 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,685.5 -567.5 3,726.2 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,885.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 <	13,600.0	90.00	359.62	10,750.0	2,885.5	-562.2	2,930.9	0.00	0.00	0.00
13,900.0 90.00 359.62 10,750.0 3,185.5 -564.2 3,229.2 0.00 0.00 0.00 14,000.0 90.00 359.62 10,750.0 3,285.5 -564.9 3,328.6 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,485.5 -565.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,485.5 -566.2 3,527.4 0.00 0.00 0.00 14,300.0 90.00 359.62 10,750.0 3,585.5 -566.9 3,626.8 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,785.5 -566.9 3,626.8 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.2 3,825.1 0.00 0.00	13,700.0	90.00	359.62	10,750.0	2,985.5	-562.9	3,030.4	0.00	0.00	0.00
14,000.0 90.00 359.62 10,750.0 3,285.5 -564.9 3,328.6 0.00 0.00 0.00 14,100.0 90.00 359.62 10,750.0 3,385.5 -565.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,485.5 -566.2 3,527.4 0.00 0.00 0.00 14,300.0 90.00 359.62 10,750.0 3,685.5 -566.9 3,626.8 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,785.5 -566.9 3,626.2 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 3,885.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,185.5 <	13,800.0	90.00	359.62	10,750.0	3,085.5	-563.5	3,129.8	0.00	0.00	0.00
14,100.0 90.00 359.62 10,750.0 3,385.5 -565.5 3,428.0 0.00 0.00 0.00 14,200.0 90.00 359.62 10,750.0 3,485.5 -566.2 3,527.4 0.00 0.00 0.00 14,300.0 90.00 359.62 10,750.0 3,585.5 -566.9 3,626.8 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,685.5 -567.5 3,726.2 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 3,985.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 <	13,900.0	90.00	359.62	10,750.0	3,185.5	-564.2	3,229.2	0.00	0.00	0.00
14,200.0 90.00 359.62 10,750.0 3,485.5 -566.2 3,527.4 0.00 0.00 0.00 14,300.0 90.00 359.62 10,750.0 3,585.5 -566.9 3,626.8 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,685.5 -567.5 3,726.2 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 3,985.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 <	14,000.0	90.00	359.62	10,750.0	3,285.5	-564.9	3,328.6	0.00	0.00	0.00
14,300.0 90.00 359.62 10,750.0 3,585.5 -566.9 3,626.8 0.00 0.00 0.00 14,400.0 90.00 359.62 10,750.0 3,685.5 -567.5 3,726.2 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 3,985.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 <	14,100.0	90.00	359.62	10,750.0	3,385.5	-565.5	3,428.0	0.00	0.00	0.00
14,400.0 90.00 359.62 10,750.0 3,685.5 -567.5 3,726.2 0.00 0.00 0.00 14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 4,085.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.2 4,422.1 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 <	14,200.0	90.00	359.62	10,750.0	3,485.5	-566.2	3,527.4	0.00	0.00	0.00
14,500.0 90.00 359.62 10,750.0 3,785.5 -568.2 3,825.7 0.00 0.00 0.00 14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 3,985.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.2 4,422.1 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 -573.5 4,621.0 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,685.4 <	14,300.0	90.00	359.62	10,750.0	3,585.5	-566.9	3,626.8	0.00	0.00	0.00
14,600.0 90.00 359.62 10,750.0 3,885.5 -568.8 3,925.1 0.00 0.00 0.00 14,700.0 90.00 359.62 10,750.0 3,985.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,100.0 90.00 359.62 10,750.0 4,385.4 -572.2 4,422.1 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.8 4,521.6 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 -573.5 4,621.0 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,685.4 <	14,400.0	90.00	359.62	10,750.0	3,685.5	-567.5	3,726.2	0.00	0.00	0.00
14,700.0 90.00 359.62 10,750.0 3,985.5 -569.5 4,024.5 0.00 0.00 0.00 14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,100.0 90.00 359.62 10,750.0 4,385.4 -572.2 4,422.1 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.8 4,521.6 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 -573.5 4,621.0 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,685.4 -574.2 4,720.4 0.00 0.00 0.00 15,500.0 90.00 359.62 10,750.0 4,785.4 <	14,500.0	90.00	359.62	10,750.0	3,785.5	-568.2	3,825.7	0.00	0.00	0.00
14,800.0 90.00 359.62 10,750.0 4,085.5 -570.2 4,123.9 0.00 0.00 0.00 14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,385.4 -572.2 4,422.1 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.8 4,521.6 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 -573.5 4,621.0 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,685.4 -574.2 4,720.4 0.00 0.00 0.00 15,500.0 90.00 359.62 10,750.0 4,785.4 -574.8 4,819.8 0.00 0.00 0.00 15,600.0 90.00 359.62 10,750.0 4,885.4 <	14,600.0	90.00	359.62	10,750.0	3,885.5	-568.8	3,925.1	0.00	0.00	0.00
14,900.0 90.00 359.62 10,750.0 4,185.5 -570.8 4,223.3 0.00 0.00 0.00 15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,100.0 90.00 359.62 10,750.0 4,385.4 -572.2 4,422.1 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.8 4,521.6 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 -573.5 4,621.0 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,685.4 -574.2 4,720.4 0.00 0.00 0.00 15,500.0 90.00 359.62 10,750.0 4,785.4 -574.2 4,720.4 0.00 0.00 0.00 15,600.0 90.00 359.62 10,750.0 4,885.4 -575.5 4,919.2 0.00 0.00 0.00 15,700.0 90.00 359.62 10,750.0 4,885.4 <	14,700.0	90.00	359.62	10,750.0	3,985.5	-569.5	4,024.5		0.00	0.00
15,000.0 90.00 359.62 10,750.0 4,285.4 -571.5 4,322.7 0.00 0.00 0.00 15,100.0 90.00 359.62 10,750.0 4,385.4 -572.2 4,422.1 0.00 0.00 0.00 15,200.0 90.00 359.62 10,750.0 4,485.4 -572.8 4,521.6 0.00 0.00 0.00 15,300.0 90.00 359.62 10,750.0 4,585.4 -573.5 4,621.0 0.00 0.00 0.00 15,400.0 90.00 359.62 10,750.0 4,685.4 -574.2 4,720.4 0.00 0.00 0.00 15,500.0 90.00 359.62 10,750.0 4,785.4 -574.8 4,819.8 0.00 0.00 0.00 15,600.0 90.00 359.62 10,750.0 4,885.4 -575.5 4,919.2 0.00 0.00 0.00 15,700.0 90.00 359.62 10,750.0 4,885.4 -576.2 5,018.6 0.00 0.00 0.00	,				,					0.00
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	15 700 1	00.00	250.62	10.750.0	4 00E E	576.2	5.019.7	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 653H FTP - plan misses target of a Point	0.00 center by 167.	0.00 .1usft at 107	10,750.0 00.0usft MD	-103.7 (10633.3 TVD	-542.2), 14.4 N, -523	565,129.70 3.5 E)	756,843.96	32.5516527°N	103.6339117°W
Sandra Jean 653H LTP/l - plan hits target cent - Point	0.00 er	0.00	10,750.0	4,985.5	-576.2	570,218.88	756,810.01	32.5656412°N	103.6339134°W





Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)
Site: Sandra Jean 23 Fed Com Pad 2

Well: Sandra Jean 23 Fed Com 653H
Wellbore: OH
Design: Plan 0.1

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

Survey Calculation Method:

North Reference:

Well Sandra Jean 23 Fed Com 653H WELL @ 3658.5usft (3658.5) WELL @ 3658.5usft (3658.5)

ormations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,428.0	1,428.0	RUSTLER			
	3,202.3	3,200.0	YATES			
	3,596.3	3,593.0	CAPITAN REEF			
	5,257.4	5,250.0	CHERRY CANYON			
	5,267.4	5,260.0	DELAWARE			
	6,711.0	6,700.0	BRUSHY CANYON			
	8,336.0	8,321.0	Top of BSGL			
	9,412.7	9,395.0	Top of FBSG SD			
	9,695.3	9,677.0	Top of SBSG Shale			
	9,927.5	9,909.0	Top of SBSG SD			
	10,457.9	10,436.0	Top of TBSG Carb			

Plan Annotations						
Mea	sured	Vertical	Local Coor	dinates		
	epth sft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
2	2,000.0	2,000.0	0.0	0.0	KOP - Start Build 1.00	
	2,403.2	2,402.8	-4.0	-13.6	Start 7212.2 hold at 2403.2 MD	
	9,615.3	9,597.2	-146.0	-500.4	Start Drop -1.00	
10	0,018.5	10,000.0	-150.0	-514.0	Start 272.5 hold at 10018.5 MD	
10	0,291.0	10,272.5	-150.0	-514.0	KOP #2 - Start Build 12.00	
1	1,041.0	10,750.0	326.7	-541.5	LP - Start 0.8 hold at 11041.0 MD	
1	1,041.9	10,750.0	327.5	-541.5	Start DLS 2.00 TFO 90.00	
1	1,187.6	10,750.0	473.2	-546.2	Start 4512.4 hold at 11187.6 MD	
15	5,700.1	10,750.0	4,985.5	-576.2	TD at 15700.1	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

NMNM29704 LEASE NO.:

Section 23, T.20 S., R.33 E., NMPM **LOCATION:**

Lea County, New Mexico **COUNTY:**

WELL NAME & NO.: Sandra Jean 23 Fed Com 301H

SURFACE HOLE FOOTAGE: 360'/S & 742'/E **BOTTOM HOLE FOOTAGE** 100'/N & 530'/E

ATS/API ID: ATS-23-1622 10400092618 APD ID:

Sundry ID: N/a

WELL NAME & NO.: Sandra Jean 23 Fed Com 653H

SURFACE HOLE FOOTAGE: 200'/S & 2097'/E **BOTTOM HOLE FOOTAGE** 100'/N & 2640'/E

ATS/API ID: ATS-23-1791 10400092994 APD ID:

Sundry ID: N/a

COA

H2S	Yes ▼		
Potash	R-111-P		
Cave/Karst Potential	Low		
Cave/Karst Potential	Critical		
Variance	□ None	Flex Hose	C Other
Wellhead	Conventional and Multibov	/l -	
Other	✓ 4 String	Capitan Reef Int 2	□WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	▼ COM	Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	Clearance

A. HYDROGEN SULFIDE

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

B. CASING

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

- 1. The 20 inch surface casing shall be set at approximately 1453 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

- 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 **24 hours in the Potash Area** 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 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. 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.

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 intermediate 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 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
 - ✓ Lea CountyCall 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **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 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 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 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 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 11/1/2023

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.
- Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

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

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

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

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



■ Mud program:

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

■ Metallurgy:

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

■ Communication:

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

Company Personnel to be Notified

John Harper, Vice President of Geoscience	Office: (720) 746-5045
	Mobile: (678) 988-6644
Braden Harris, Engineer	Mobile: (406) 600-3310
Sarah Ferreyros, Director of Regulatory	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



Federal Agencies

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

Veterinarians

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

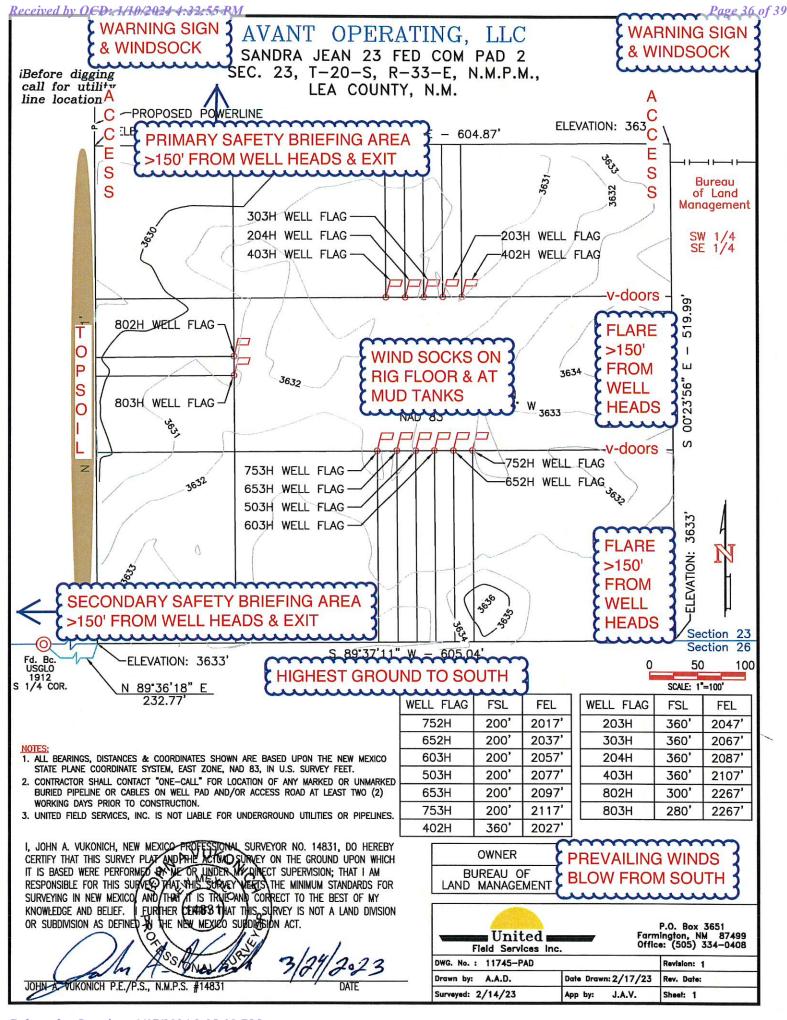
Residents within 2 miles

None

Air Evacuation

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



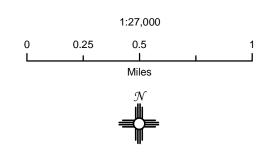


Avant Operating, LLC

Sandra Jean 23 Fed Com Pad 2 H2S Contingency Plan: Radius Map

Section 23, Township 20S, Range 33E Lea County, New Mexico



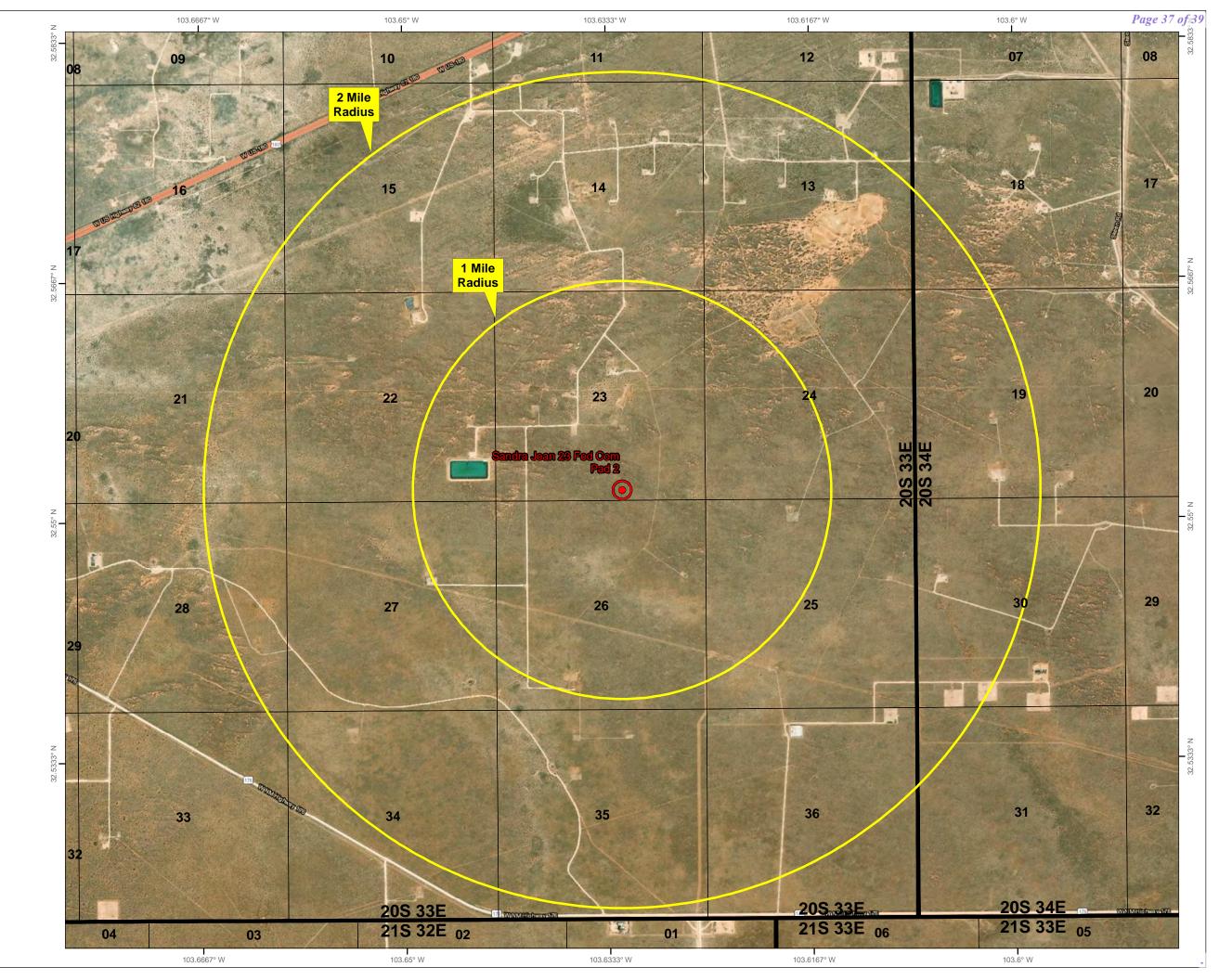


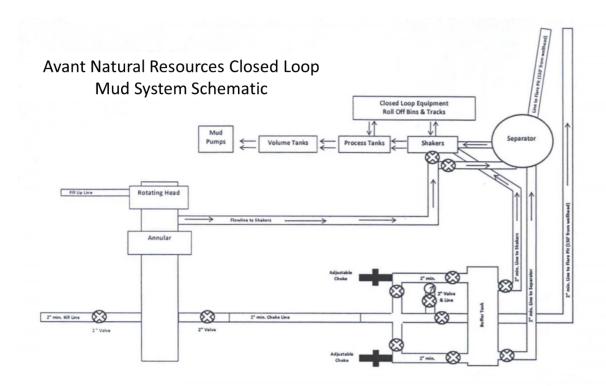
NAD 1983 New Mexico State Plane East FIPS 3001 Feet



Prepared by Permits West, Inc., April 18, 2023 for Avant Operating, LLC







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 302363

CONDITIONS

Operator:	OGRID:
Avant Operating, LLC	330396
1515 Wynkoop Street	Action Number:
Denver, CO 80202	302363
	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	1/17/2024
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	1/17/2024
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	1/17/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/17/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	1/17/2024