

Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SESW / 32.5519296 / -103.6367732	County or Parish/State: LEA / NM
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552677	Operator: AVANT OPERATING LLC	

Notice of Intent

Sundry ID: 2800749

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/15/2024	Time Sundry Submitted: 11:14
Date proposed operation will begin: 07/19/2024	

Procedure Description: Avant Operating, LLC would like to request that the well name, TVD, and target for the Sandra Jean 605H be changed. The well name will change to the Sandra Jean 23 Fed Com 705H, the TVD will change to 11,350', and it will change from a Bone Spring well to a Wolfcamp well. Please see the attached updated documentation for this request. Thank you!

NOI Attachments

Procedure Description

- 5.5_in_20__P110HC_INT_SP_20240716114632.pdf
- AVANTN_1_20240715111228.PDF
- Plan_3.0_Sandra_Jean_23_Fed_Com_705H_20240715110935.pdf
- Sandra_Jean_23_Fed_Com_705H_WBS_20240715110922.pdf
- Sandra_Jean_23_Fed_Com_705H_C_102_20240715110903.pdf

Received by OCD: 8/20/2024 7:13:36 PM

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Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SESW / 32.5519296 / -103.6367732	County or Parish/State: LEA / NM
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552677	Operator: AVANT OPERATING LLC	

Conditions of Approval

Additional

Sandra_Jean_23_Fed_Com_605H_Dr_COA_20240716135446.pdf

23_20_33_N_Sundry_ID_2800749_Sandra_Jean_23_Fed_Com_605H_Lea_NM29704_AVANT_OPERATING_LLC_13_22fa_8_9_2023_LV_20240716135446.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SARAH FERREYROS

Signed on: JUL 16, 2024 11:46 AM

Name: AVANT OPERATING LLC

Title: Director of Regulatory

Street Address: 1515 WYNKOOP

City: DENVERState: CO

Phone: (720) 854-9020

Email address: SARAH@AVANTNR.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 07/16/2024

Signature: Chris Walls

Performance Data Sheet

Issued on: 01.09.2023



OD Label	LM Label	Grade	Connection
5 1/2	20.00	P110HC	INTREPID-SP®

PIPE BODY PROPERTIES

Nominal OD	Nominal ID	Nominal WT	Nominal LM
5.500 inch 139,70 mm	4.778 inch 121,36 mm	0.361 inch 9,17 mm	20.00 ppf 29,76 kg/m
Standard Drift	Minimal YS	Maximal YS	Minimal UTS
4.653 inch 118,19 mm	110 ksi 758 MPa	140 ksi 965 MPa	125 ksi 862 MPa

CONNECTION PROPERTIES & PERFORMANCES

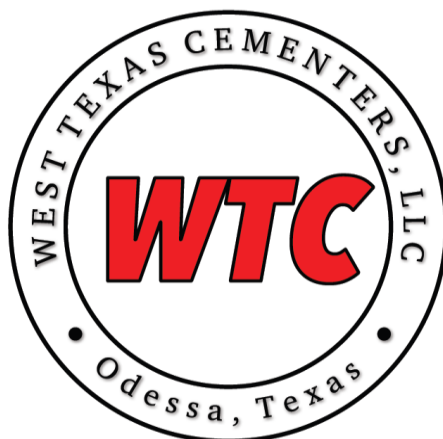
Name	Type	Coupling OD	Connection ID
INTREPID-SP®	Semi-Premium T&C	6.300 inch 160,02 mm	4.778 inch 121,36 mm
Coupling length	Tension efficiency	Compression Efficiency	Make-up loss
9.449 inch 240,00 mm	641 klb 2 850 kN 100 % PB	641 klb 2 850 kN 100 % PB	4.126 inch 104,80 mm
Burst	Collapse	Max. Bending	Max. Load on Coupling Face
12 640 Psi 87,1 MPa 100 % PB	12 200 Psi 84,1 MPa 100 % PB	46 °/100 ft 46 °/30 m	583 klb 2 591 kN

FIELD TORQUE VALUES

	[ft-lb]	[N·m]		[ft-lb]	[N·m]
Min. Make-Up Torque	12 400	16 800	Operational Torque	21 500	29 150
Opt. Make-Up Torque	13 800	18 700			
Max. Make-Up Torque	15 200	20 600	Yield Torque	23 900	32 400

The Performance Data Sheet contains general information that is correct at the time of issue. In the interests of continuous development, the Interpipe company reserves the right to change the format and contents of the Data Sheet at any time without warning and without incurring any obligations. For any questions regarding mentioned data, please mail to Yuriy.Kuratsapov@m.interpipe.biz

PROPOSAL#: 230714101409-H



CEMENT PROCEDURE & PROPOSAL

PREPARED FOR:

Mr. Braden Harris

EMAIL: braden@avantnr.com

PHONE NUMBER: 406-600-3310

Avant Natural Resources

Sandra Jean 23 Fed Com #705H

Lea County, NM

Rig: H&P 255

API Number: 30-025-52677

Service Point

Odessa

1400 S JBS Parkway Odessa, TX 79766

432-701-8955

Technical Writer

Jonathan Smith

jonathan@wtcementers.com

432-701-3719

WTC Representative

Jon Reynolds

jon@wtcementers.com

432-257-1234

.Disclaimer Notice:

The ability of West Texas Cementers to complete this work is subject to the availability of the raw materials required to complete the job.

This information is presented in good faith, but no warranty is given by and West Texas Cementers LLC assumes no liability for advice or recommendations made concerning results to be obtained from the use of any product or service. The results given are estimates based on calculations produced by a computer model including various assumptions on the well, reservoir and treatment. The results depend on input data provided by the Operator and estimates as to unknown data and can be no more accurate than the model, the assumptions and such input data. The information presented is WTC LLC best estimate of the actual results that may be achieved and should be used for comparison purposes rather than absolute values. The quality of input data, and hence results, may be improved through the use of certain tests and procedures which West Texas Cementers LLC can assist in selecting. The Operator has superior knowledge of the well, the reservoir, the field and conditions affecting them. If the Operator is aware of any conditions whereby a neighboring well or wells might be affected by the treatment proposed herein it is the Operator's responsibility to notify the owner or owners of the well or wells accordingly. Prices quoted are estimates only and are good for 30 days from the date of issue. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Freedom from infringement of patents of West Texas Cementers LLC or others is not to be inferred.

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7/1/2024 11:14

VERSION: v0.29

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

Surface



PROPOSAL#: 230714101409-H

WELL INFORMATION							
MUD		8.4# Spud Mud					
PREVIOUS PIPE		30" 98.89# CSG to 120					
OPEN HOLE		24" OH to 1453					
CASING/INJECTION		20" 94# J-55/BTC to 1453					
MD		1453					
TVD		1453					
EST BHST/BHCT		92-F / 85-F (0.8-F/100-FT)					
NOTES		Standby charges start after WTC has been on location for more than 4-hrs.					
VOLUMES							
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)	
Lead	120	29.376	20		0.4497	54.0	
Lead	1033	24	20	50%	0.2564	264.9	
Tail	300	24	20	20%	0.2052	61.5	
SHOE JOINT	40	20	19.124		0.3553	14.2	
FLUIDS							
SPACER							
Fresh Water							
VOLUME		20-bbl					
Lead							
35% B_Poz+65% Class C+6% Gel+5% SALT+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A							
VOLUME		945-SX					319.8-bbls
DENSITY		12.8-ppg					
YIELD		1.9-cf/sx					
MIX WATER		10.17-gps					
TOP OF CEMENT		Surface					
EXCESS		50%					

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

Surface



PROPOSAL#: 230714101409-H

Tail		
	100% Class C+1% CaCl2+0.005GPS NoFoam V1A	
VOLUME	320-SX	75.8-bbls
DENSITY	14.8-ppg	
YIELD	1.33-cf/sx	
MIX WATER	6.34-gps	
TOP OF CEMENT	1153-ft	
EXCESS	20%	
DISPLACEMENT		
	Displacement	
VOLUME	502-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

1st Intermediate



PROPOSAL#: 230714101409-H

WELL INFORMATION						
MUD	10.5# Brine					
PREVIOUS PIPE	20" 94# CSG to 1453					
OPEN HOLE	17.5" OH to 3400					
CASING/INJECTION	13.375" 54.5# J-55/BTC to 3400					
MD	3400					
TVD	3400					
EST BHST/BHCT	108-F / 96-F (0.8-F/100-FT)					
NOTES	Standby charges start after WTC has been on location for more than 4-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	1453	19.124	13.375		0.1815	263.7
Lead	1267	17.5	13.375	50%	0.1856	235.1
Tail	680	17.5	13.375	20%	0.1485	100.9
SHOE JOINT	40	13.375	12.615		0.1546	6.2
FLUIDS						
SPACER						
Fresh Water						
VOLUME	25-bbl					
Lead						
35% B_Poz+65% Class C+6% Gel+5% SALT+0.2% R-1300+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A						
VOLUME	1480-SX					
DENSITY	12.8-ppg					
YIELD	1.9-cf/sx					
MIX WATER	10.18-gps					
TOP OF CEMENT	Surface					
EXCESS	50%					
						500.8-bbls

500.8-bbls

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

1st Intermediate



PROPOSAL#: 230714101409-H

Tail		
100% Class C+5% SALT+0.3% CRT-201+0.005GPS NoFoam V1A		
VOLUME	445-SX	107.8-bbls
DENSITY	14.8-ppg	
YIELD	1.36-cf/sx	
MIX WATER	6.49-gps	
TOP OF CEMENT	2720-ft	
EXCESS	20%	
DISPLACEMENT		
Displacement		
VOLUME	519.4-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

2nd Multi-Stage Intermediate



PROPOSAL#: 230714101409-H

WELL INFORMATION							
MUD	8.4# Fresh Water						
PREVIOUS PIPE	13.375" 54.5# CSG to 3400						
OPEN HOLE	12.25" OH to 5200						
CASING/INJECTION	9.625" 40# J-55/L-80/HC/BTC to 5200						
MD	5200						
TVD	5200						
EST BHST/BHCT	122-F / 106-F (0.8-F/100-FT)						
DV TOOL	3618						
EST BHST/BHCT STG2	109-F / 97-F (0.8-F/100-FT)						
NOTES	Standby charges start after WTC has been on location for more than 8-hrs.						
VOLUMES							
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)	
Stage 1 Lead	3400	12.615	9.625	31%	0.0846	287.7	
Stage 1 Lead	760	12.25	9.625	31%	0.0731	55.5	
Stage 1 Tail	1040	12.25	9.625	20%	0.0669	69.6	
Stage 2 Lead	3368	12.615	9.625	46%	0.0943	317.6	
Stage 2 Tail	32	12.615	9.625	60%	0.1033	3.3	
Stage 2 Tail	218	12.25	9.625	60%	0.0892	19.5	
SHOE JOINT	40	9.625	8.835		0.0758	3.0	
FLUIDS							
SPACER							
Fresh Water							
VOLUME	25-bbl						
Stage 1 Lead							
35% Ch_Poz+65% Class C+6% Gel+5% SALT+0.35% R-1300+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A							
VOLUME	1000-SX						345.5-bbls
DENSITY	12.8-ppg						
YIELD	1.94-cf/sx						
MIX WATER	10.58-gps						
TOP OF CEMENT	Surface						
EXCESS	31%						

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

2nd Multi-Stage Intermediate



PROPOSAL#: 230714101409-H

Stage 1 Tail		
100% Class C+5% SALT+0.3% CRT-201+0.005GPS NoFoam V1A		
VOLUME	300-SX	72.7-bbls
DENSITY	14.8-ppg	
YIELD	1.36-cf/sx	
MIX WATER	6.49-gps	
TOP OF CEMENT	4160-ft	
EXCESS	20%	
DISPLACEMENT		
Displacement		
VOLUME	391.2-bbl	
SPACER		
Fresh Water		
VOLUME	20-bbl	
Stage 2 Lead		
35% Ch_Poz+65% Class C+6% Gel+5% SALT+0.05% R-1300+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A		
VOLUME	925-SX	318-bbls
DENSITY	12.8-ppg	
YIELD	1.93-cf/sx	
MIX WATER	10.57-gps	
TOP OF CEMENT	Surface	
EXCESS	46%	
Stage 2 Tail		
100% Class C+0.1% CRT-201+0.005GPS NoFoam V1A		
VOLUME	100-SX	23.7-bbls
DENSITY	14.8-ppg	
YIELD	1.33-cf/sx	
MIX WATER	6.32-gps	
TOP OF CEMENT	3368-ft	
EXCESS	60%	
DISPLACEMENT		
Displacement		
VOLUME	274.3-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

Production



PROPOSAL#: 230714101409-H

WELL INFORMATION						
MUD	9.8# OBM					
PREVIOUS PIPE	9.625" 40# CSG to 5200					
OPEN HOLE	8.75" OH to 16233					
CASING/INJECTION	5.5" 20# P-110 HC/TCBC to 16233					
MD	16233					
TVD	11350					
EST BHST/BHCT	233-F / 216-F (1.34-F/100-FT)					
KOP	10898					
NOTES	Standby charges start after WTC has been on location for more than 8-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	5200	8.835	5.5		0.0464	241.5
Lead	5698	8.75	5.5	50%	0.0675	384.5
Tail	5335	8.75	5.5	20%	0.0540	288.0
SHOE JOINT	80	5.5	4.778		0.0222	1.8
FLUIDS						
SPACER						
Wt. Spacer 37.16GPB Water+8PPB PolyScrub 4320+105.54PPB Barite+1GPB HoleScrub 4311+1PPB R-1300						
VOLUME	40-bbl					
DENSITY	10.3-ppg					
Lead						
100% ProLite+5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.2% FL-24+3PPS Gilsonite+0.005GPS NoFoam V1A						
VOLUME	1040-SX					
DENSITY	10.7-ppg					
YIELD	3.38-cf/sx					
MIX WATER	21.06-gps					
TOP OF CEMENT	Surface					
EXCESS	50%					
	626.1-bbls					

626.1-bbls

Avant Natural Resources
Sandra Jean 23 Fed Com #705H
Lea County, NM
Rig: H&P 255

Production



PROPOSAL#: 230714101409-H

Tail		
50% B_Poz+50% Class H+5% SALT+0.05% RCKCAS-100+0.75% FR-5+0.5% FL-24+0.005GPS NoFoam V1A		
VOLUME	1345-SX	289.8-bbls
DENSITY	14.5-ppg	
YIELD	1.21-cf/sx	
MIX WATER	5.28-gps	
TOP OF CEMENT	10898-ft	
EXCESS	20%	
DISPLACEMENT		
Fresh Water+ 0.25GPT Plexicide 24L+1GPT Corplex		
VOLUME	358.2-bbl	
DENSITY	8.34-ppg	

CHEMICAL DESCRIPTIONS		
CHEMICAL NAME	CODE	DESCRIPTION
B_Poz	WTC228	Poz - Fly Ash, Extender
Class H	WTC101	API Cement
Class C	WTC100	API Cement
Ch_Poz	WTC237	Poz - Fly Ash, Extender
ProLite		Blended Based Cement
Plexcrete SFA	WTC129	Cement Strength Enhancer
Gel	WTC102	Extender
Micro Crystal	WTC212	Cement Strength Enhancer
Micro Shell	WTC209	Cement Strength Enhancer
WTC1	WTC250	Extender
Plexcrete STE	WTC127	Cement Strength Enhancer
FAR-2	WTC260	Cement Strength Enhancer
Gypsum	WTC111	Free Water Control, Extender
CaCl2	WTC112	Accelerator
SMS	WTC115	Free Water Control, Extender
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
SA-1	WTC264	Free Water Control, Extender
R-33	WTC243	Lignosulfonate Retarder
R-1300	WTC201	Low Temperature Retarder
FR-5	WTC258	Lignosulfonate Retarder
CRT-201	WTC278	Lignosulfonate Retarder
C-37	WTC224	Dispersant, Friction Reducer
FL-24	WTC277	Fluid Loss (polymers/copolymers - 300-F max)
EC-10	WTC120	Expanding Agent
Gas Bond	WTC126	Gas Migration Control (Hydrogen Generating)
Gilsonite	WTC003	Premium Lost Circulation Material, Free Water Control
Pol-E-Flake	WTC106	Lost Circulation Material
Web Seal	WTC133	Premium Fiber Lost Circulation Material
Zone Seal	WTC207	Premium Lost Circulation Material
NoFoam V1A	WTC105	Liquid Defoamer
Water		Fresh Water
PolyScrub 4320	WTC232	Spacer Gelling Agent
Barite	WTC116	Weighting Agent
HoleScrub 4311	WTC281	Surfactant
HoleScrub 4305	WTC213	Surfactant
HoleScrub 4308	WTC215	Surfactant
Soda Ash	WTC164	pH Control
R-1300	WTC201	Low Temperature Retarder
SuspendaCem 6302	WTC005	Free Water Control, Anti-Settling Agent
Sugar	WTC119	Retarder
AI-1, Acid Inhibitor	WTC015	Corrosion Inhibitor
Plexcide 24L	WTC166	Biocide
Corplex	WTC134	Corrosion Inhibitor
Clay Max	WTC096	KCL Substitute
Zone Seal	WTC207	Premium Lost Circulation Material



Avant Operating, LLC

Lea County, NM (N83 - NME)

Sandra Jean 23 Fed Com Pad 3

(02) Sandra Jean 23 Fed Com 705H

705H

Plan: Plan 3.0

Standard Planning Report

02 July, 2024

The logo for DIXON. The word "DIXON" is written in a large, bold, black sans-serif font. A red diagonal line runs through the letters from the top-left to the bottom-right.



Dixon
Planning Report



Database:	dixon-compass	Local Co-ordinate Reference:	Well (02) Sandra Jean 23 Fed Com 705H
Company:	Avant Operating, LLC	TVD Reference:	26.5' RKB @ 3650.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	26.5' RKB @ 3650.50usft
Site:	Sandra Jean 23 Fed Com Pad 3	North Reference:	Grid
Well:	(02) Sandra Jean 23 Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	705H		
Design:	Plan 3.0		

Project	Lea County, NM (N83 - NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sandra Jean 23 Fed Com Pad 3		
Site Position:		Northing:	565,224.58 usft
From:	Map	Easting:	755,941.69 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.55192974
		Longitude:	-103.63683782

Well	(02) Sandra Jean 23 Fed Com 705H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
Grid Convergence:	0.375 °		
		Latitude:	32.55192960
		Longitude:	-103.63664313
		Ground Level:	3,624.00 usft

Wellbore	705H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/1/2024	6.253	60.088	47,370.54962571

Design	Plan 3.0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	353.27

Plan Survey Tool Program	Date	7/2/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,336.72 Plan 3.0 (705H)	MWD	
			OWSG MWD - Standard	

Plan 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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.000	
5,731.72	6.63	254.27	5,730.97	-5.20	-18.47	2.00	2.00	0.00	254.275	
10,300.36	6.63	254.27	10,269.03	-148.25	-526.53	0.00	0.00	0.00	0.000	
10,632.07	0.00	0.00	10,600.00	-153.45	-545.00	2.00	-2.00	0.00	180.000	
10,932.98	0.00	0.00	10,900.91	-153.45	-545.00	0.00	0.00	0.00	0.000	
11,677.50	91.65	359.13	11,366.16	325.34	-552.29	12.31	12.31	0.00	359.128	
16,336.72	91.65	359.13	11,232.00	4,982.09	-623.19	0.00	0.00	0.00	0.000	



Dixon
Planning Report



Database:	dixon-compass	Local Co-ordinate Reference:	Well (02) Sandra Jean 23 Fed Com 705H
Company:	Avant Operating, LLC	TVD Reference:	26.5' RKB @ 3650.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	26.5' RKB @ 3650.50usft
Site:	Sandra Jean 23 Fed Com Pad 3	North Reference:	Grid
Well:	(02) Sandra Jean 23 Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	705H		
Design:	Plan 3.0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Dixon
Planning Report



Database:	dixon-compass	Local Co-ordinate Reference:	Well (02) Sandra Jean 23 Fed Com 705H
Company:	Avant Operating, LLC	TVD Reference:	26.5' RKB @ 3650.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	26.5' RKB @ 3650.50usft
Site:	Sandra Jean 23 Fed Com Pad 3	North Reference:	Grid
Well:	(02) Sandra Jean 23 Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	705H		
Design:	Plan 3.0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
5,500.00	2.00	254.27	5,499.98	-0.47	-1.68	-0.27	2.00	2.00	0.00
5,600.00	4.00	254.27	5,599.84	-1.89	-6.72	-1.09	2.00	2.00	0.00
5,700.00	6.00	254.27	5,699.45	-4.25	-15.11	-2.45	2.00	2.00	0.00
5,731.72	6.63	254.27	5,730.97	-5.20	-18.47	-3.00	2.00	2.00	0.00
Start 4568.64 hold at 5731.72 MD									
5,800.00	6.63	254.27	5,798.80	-7.34	-26.06	-4.23	0.00	0.00	0.00
5,900.00	6.63	254.27	5,898.13	-10.47	-37.18	-6.04	0.00	0.00	0.00
6,000.00	6.63	254.27	5,997.46	-13.60	-48.30	-7.84	0.00	0.00	0.00
6,100.00	6.63	254.27	6,096.79	-16.73	-59.42	-9.65	0.00	0.00	0.00
6,200.00	6.63	254.27	6,196.12	-19.86	-70.54	-11.45	0.00	0.00	0.00
6,300.00	6.63	254.27	6,295.45	-22.99	-81.66	-13.26	0.00	0.00	0.00
6,400.00	6.63	254.27	6,394.78	-26.12	-92.78	-15.07	0.00	0.00	0.00
6,500.00	6.63	254.27	6,494.11	-29.26	-103.90	-16.87	0.00	0.00	0.00
6,600.00	6.63	254.27	6,593.45	-32.39	-115.03	-18.68	0.00	0.00	0.00
6,700.00	6.63	254.27	6,692.78	-35.52	-126.15	-20.48	0.00	0.00	0.00
6,800.00	6.63	254.27	6,792.11	-38.65	-137.27	-22.29	0.00	0.00	0.00
6,900.00	6.63	254.27	6,891.44	-41.78	-148.39	-24.09	0.00	0.00	0.00
7,000.00	6.63	254.27	6,990.77	-44.91	-159.51	-25.90	0.00	0.00	0.00
7,100.00	6.63	254.27	7,090.10	-48.04	-170.63	-27.71	0.00	0.00	0.00
7,200.00	6.63	254.27	7,189.43	-51.17	-181.75	-29.51	0.00	0.00	0.00
7,300.00	6.63	254.27	7,288.76	-54.30	-192.87	-31.32	0.00	0.00	0.00
7,400.00	6.63	254.27	7,388.09	-57.44	-203.99	-33.12	0.00	0.00	0.00
7,500.00	6.63	254.27	7,487.42	-60.57	-215.11	-34.93	0.00	0.00	0.00
7,600.00	6.63	254.27	7,586.75	-63.70	-226.23	-36.74	0.00	0.00	0.00
7,700.00	6.63	254.27	7,686.08	-66.83	-237.35	-38.54	0.00	0.00	0.00
7,800.00	6.63	254.27	7,785.41	-69.96	-248.47	-40.35	0.00	0.00	0.00
7,900.00	6.63	254.27	7,884.74	-73.09	-259.60	-42.15	0.00	0.00	0.00
8,000.00	6.63	254.27	7,984.07	-76.22	-270.72	-43.96	0.00	0.00	0.00
8,100.00	6.63	254.27	8,083.40	-79.35	-281.84	-45.76	0.00	0.00	0.00
8,200.00	6.63	254.27	8,182.73	-82.49	-292.96	-47.57	0.00	0.00	0.00
8,300.00	6.63	254.27	8,282.06	-85.62	-304.08	-49.38	0.00	0.00	0.00
8,400.00	6.63	254.27	8,381.39	-88.75	-315.20	-51.18	0.00	0.00	0.00
8,500.00	6.63	254.27	8,480.72	-91.88	-326.32	-52.99	0.00	0.00	0.00
8,600.00	6.63	254.27	8,580.05	-95.01	-337.44	-54.79	0.00	0.00	0.00
8,700.00	6.63	254.27	8,679.38	-98.14	-348.56	-56.60	0.00	0.00	0.00
8,800.00	6.63	254.27	8,778.71	-101.27	-359.68	-58.40	0.00	0.00	0.00
8,900.00	6.63	254.27	8,878.04	-104.40	-370.80	-60.21	0.00	0.00	0.00
9,000.00	6.63	254.27	8,977.37	-107.53	-381.92	-62.02	0.00	0.00	0.00
9,100.00	6.63	254.27	9,076.70	-110.67	-393.05	-63.82	0.00	0.00	0.00
9,200.00	6.63	254.27	9,176.04	-113.80	-404.17	-65.63	0.00	0.00	0.00
9,300.00	6.63	254.27	9,275.37	-116.93	-415.29	-67.43	0.00	0.00	0.00
9,400.00	6.63	254.27	9,374.70	-120.06	-426.41	-69.24	0.00	0.00	0.00
9,500.00	6.63	254.27	9,474.03	-123.19	-437.53	-71.04	0.00	0.00	0.00
9,600.00	6.63	254.27	9,573.36	-126.32	-448.65	-72.85	0.00	0.00	0.00
9,700.00	6.63	254.27	9,672.69	-129.45	-459.77	-74.66	0.00	0.00	0.00
9,800.00	6.63	254.27	9,772.02	-132.58	-470.89	-76.46	0.00	0.00	0.00
9,900.00	6.63	254.27	9,871.35	-135.72	-482.01	-78.27	0.00	0.00	0.00
10,000.00	6.63	254.27	9,970.68	-138.85	-493.13	-80.07	0.00	0.00	0.00
10,100.00	6.63	254.27	10,070.01	-141.98	-504.25	-81.88	0.00	0.00	0.00
10,200.00	6.63	254.27	10,169.34	-145.11	-515.37	-83.69	0.00	0.00	0.00
10,300.36	6.63	254.27	10,269.03	-148.25	-526.53	-85.50	0.00	0.00	0.00



Dixon
Planning Report



Database:	dixon-compass	Local Co-ordinate Reference:	Well (02) Sandra Jean 23 Fed Com 705H
Company:	Avant Operating, LLC	TVD Reference:	26.5' RKB @ 3650.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	26.5' RKB @ 3650.50usft
Site:	Sandra Jean 23 Fed Com Pad 3	North Reference:	Grid
Well:	(02) Sandra Jean 23 Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	705H		
Design:	Plan 3.0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start Drop -2.00									
10,400.00	4.64	254.27	10,368.18	-150.90	-535.96	-87.03	2.00	-2.00	0.00
10,500.00	2.64	254.27	10,467.97	-152.63	-542.07	-88.02	2.00	-2.00	0.00
10,600.00	0.64	254.27	10,567.93	-153.40	-544.83	-88.47	2.00	-2.00	0.00
10,632.07	0.00	0.00	10,600.00	-153.45	-545.00	-88.50	2.00	-2.00	329.63
Start 300.91 hold at 10632.07 MD									
10,700.00	0.00	0.00	10,667.93	-153.45	-545.00	-88.50	0.00	0.00	0.00
10,800.00	0.00	0.00	10,767.93	-153.45	-545.00	-88.50	0.00	0.00	0.00
10,900.00	0.00	0.00	10,867.93	-153.45	-545.00	-88.50	0.00	0.00	0.00
10,932.98	0.00	0.00	10,900.91	-153.45	-545.00	-88.50	0.00	0.00	0.00
KOP: 10932.98' MD, 10900.91' TVD, 12.31°DLS									
10,950.00	2.09	359.13	10,917.92	-153.14	-545.00	-88.19	12.31	12.31	0.00
10,975.00	5.17	359.13	10,942.87	-151.56	-545.03	-86.61	12.31	12.31	0.00
11,000.00	8.25	359.13	10,967.69	-148.63	-545.07	-83.70	12.31	12.31	0.00
11,025.00	11.33	359.13	10,992.33	-144.38	-545.14	-79.48	12.31	12.31	0.00
11,050.00	14.40	359.13	11,016.70	-138.82	-545.22	-73.94	12.31	12.31	0.00
11,075.00	17.48	359.13	11,040.73	-131.95	-545.33	-67.11	12.31	12.31	0.00
11,100.00	20.56	359.13	11,064.36	-123.81	-545.45	-59.01	12.31	12.31	0.00
11,125.00	23.64	359.13	11,087.53	-114.41	-545.59	-49.65	12.31	12.31	0.00
11,150.00	26.71	359.13	11,110.15	-103.77	-545.76	-39.07	12.31	12.31	0.00
11,175.00	29.79	359.13	11,132.17	-91.94	-545.94	-27.30	12.31	12.31	0.00
11,200.00	32.87	359.13	11,153.52	-78.94	-546.13	-14.37	12.31	12.31	0.00
11,225.00	35.95	359.13	11,174.14	-64.82	-546.35	-0.32	12.31	12.31	0.00
11,250.00	39.02	359.13	11,193.98	-49.61	-546.58	14.81	12.31	12.31	0.00
11,275.00	42.10	359.13	11,212.97	-33.36	-546.83	30.98	12.31	12.31	0.00
11,300.00	45.18	359.13	11,231.06	-16.11	-547.09	48.14	12.31	12.31	0.00
11,325.00	48.26	359.13	11,248.19	2.09	-547.37	66.25	12.31	12.31	0.00
11,350.00	51.33	359.13	11,264.33	21.18	-547.66	85.24	12.31	12.31	0.00
11,375.00	54.41	359.13	11,279.42	41.11	-547.96	105.06	12.31	12.31	0.00
11,400.00	57.49	359.13	11,293.41	61.81	-548.28	125.67	12.31	12.31	0.00
11,425.00	60.57	359.13	11,306.28	83.24	-548.60	146.99	12.31	12.31	0.00
11,450.00	63.64	359.13	11,317.97	105.33	-548.94	168.97	12.31	12.31	0.00
11,475.00	66.72	359.13	11,328.46	128.02	-549.29	191.54	12.31	12.31	0.00
11,500.00	69.80	359.13	11,337.72	151.24	-549.64	214.63	12.31	12.31	0.00
11,525.00	72.88	359.13	11,345.72	174.92	-550.00	238.19	12.31	12.31	0.00
11,550.00	75.95	359.13	11,352.44	198.99	-550.37	262.15	12.31	12.31	0.00
11,575.00	79.03	359.13	11,357.85	223.39	-550.74	286.42	12.31	12.31	0.00
11,600.00	82.11	359.13	11,361.94	248.05	-551.11	310.95	12.31	12.31	0.00
11,625.00	85.19	359.13	11,364.71	272.89	-551.49	335.67	12.31	12.31	0.00
11,650.00	88.26	359.13	11,366.14	297.84	-551.87	360.49	12.31	12.31	0.00
11,675.00	91.34	359.13	11,366.22	322.84	-552.25	385.36	12.31	12.31	0.00
11,677.50	91.65	359.13	11,366.16	325.34	-552.29	387.84	12.31	12.31	0.00
EOC: 11677.50' MD, 11366.16' TVD, 387.84' VS									
11,700.00	91.65	359.13	11,365.51	347.83	-552.63	410.22	0.00	0.00	0.00
11,800.00	91.65	359.13	11,362.63	447.77	-554.15	509.65	0.00	0.00	0.00
11,900.00	91.65	359.13	11,359.75	547.72	-555.68	609.09	0.00	0.00	0.00
12,000.00	91.65	359.13	11,356.87	647.67	-557.20	708.53	0.00	0.00	0.00
12,100.00	91.65	359.13	11,353.99	747.61	-558.72	807.96	0.00	0.00	0.00
12,200.00	91.65	359.13	11,351.11	847.56	-560.24	907.40	0.00	0.00	0.00
12,300.00	91.65	359.13	11,348.23	947.51	-561.76	1,006.83	0.00	0.00	0.00
12,400.00	91.65	359.13	11,345.35	1,047.45	-563.28	1,106.27	0.00	0.00	0.00
12,500.00	91.65	359.13	11,342.47	1,147.40	-564.81	1,205.71	0.00	0.00	0.00
12,600.00	91.65	359.13	11,339.60	1,247.35	-566.33	1,305.14	0.00	0.00	0.00



Dixon
Planning Report



Database:	dixon-compass	Local Co-ordinate Reference:	Well (02) Sandra Jean 23 Fed Com 705H
Company:	Avant Operating, LLC	TVD Reference:	26.5' RKB @ 3650.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	26.5' RKB @ 3650.50usft
Site:	Sandra Jean 23 Fed Com Pad 3	North Reference:	Grid
Well:	(02) Sandra Jean 23 Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	705H		
Design:	Plan 3.0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,700.00	91.65	359.13	11,336.72	1,347.29	-567.85	1,404.58	0.00	0.00	0.00	
12,800.00	91.65	359.13	11,333.84	1,447.24	-569.37	1,504.01	0.00	0.00	0.00	
12,900.00	91.65	359.13	11,330.96	1,547.19	-570.89	1,603.45	0.00	0.00	0.00	
13,000.00	91.65	359.13	11,328.08	1,647.14	-572.41	1,702.89	0.00	0.00	0.00	
13,100.00	91.65	359.13	11,325.20	1,747.08	-573.94	1,802.32	0.00	0.00	0.00	
13,200.00	91.65	359.13	11,322.32	1,847.03	-575.46	1,901.76	0.00	0.00	0.00	
13,300.00	91.65	359.13	11,319.44	1,946.98	-576.98	2,001.19	0.00	0.00	0.00	
13,400.00	91.65	359.13	11,316.56	2,046.92	-578.50	2,100.63	0.00	0.00	0.00	
13,500.00	91.65	359.13	11,313.68	2,146.87	-580.02	2,200.07	0.00	0.00	0.00	
13,600.00	91.65	359.13	11,310.80	2,246.82	-581.54	2,299.50	0.00	0.00	0.00	
13,700.00	91.65	359.13	11,307.92	2,346.76	-583.07	2,398.94	0.00	0.00	0.00	
13,800.00	91.65	359.13	11,305.04	2,446.71	-584.59	2,498.37	0.00	0.00	0.00	
13,900.00	91.65	359.13	11,302.16	2,546.66	-586.11	2,597.81	0.00	0.00	0.00	
14,000.00	91.65	359.13	11,299.28	2,646.61	-587.63	2,697.25	0.00	0.00	0.00	
14,100.00	91.65	359.13	11,296.40	2,746.55	-589.15	2,796.68	0.00	0.00	0.00	
14,200.00	91.65	359.13	11,293.52	2,846.50	-590.68	2,896.12	0.00	0.00	0.00	
14,300.00	91.65	359.13	11,290.65	2,946.45	-592.20	2,995.56	0.00	0.00	0.00	
14,400.00	91.65	359.13	11,287.77	3,046.39	-593.72	3,094.99	0.00	0.00	0.00	
14,500.00	91.65	359.13	11,284.89	3,146.34	-595.24	3,194.43	0.00	0.00	0.00	
14,600.00	91.65	359.13	11,282.01	3,246.29	-596.76	3,293.86	0.00	0.00	0.00	
14,700.00	91.65	359.13	11,279.13	3,346.23	-598.28	3,393.30	0.00	0.00	0.00	
14,800.00	91.65	359.13	11,276.25	3,446.18	-599.81	3,492.74	0.00	0.00	0.00	
14,900.00	91.65	359.13	11,273.37	3,546.13	-601.33	3,592.17	0.00	0.00	0.00	
15,000.00	91.65	359.13	11,270.49	3,646.07	-602.85	3,691.61	0.00	0.00	0.00	
15,100.00	91.65	359.13	11,267.61	3,746.02	-604.37	3,791.04	0.00	0.00	0.00	
15,200.00	91.65	359.13	11,264.73	3,845.97	-605.89	3,890.48	0.00	0.00	0.00	
15,300.00	91.65	359.13	11,261.85	3,945.92	-607.41	3,989.92	0.00	0.00	0.00	
15,400.00	91.65	359.13	11,258.97	4,045.86	-608.94	4,089.35	0.00	0.00	0.00	
15,500.00	91.65	359.13	11,256.09	4,145.81	-610.46	4,188.79	0.00	0.00	0.00	
15,600.00	91.65	359.13	11,253.21	4,245.76	-611.98	4,288.22	0.00	0.00	0.00	
15,700.00	91.65	359.13	11,250.33	4,345.70	-613.50	4,387.66	0.00	0.00	0.00	
15,800.00	91.65	359.13	11,247.45	4,445.65	-615.02	4,487.10	0.00	0.00	0.00	
15,900.00	91.65	359.13	11,244.58	4,545.60	-616.54	4,586.53	0.00	0.00	0.00	
16,000.00	91.65	359.13	11,241.70	4,645.54	-618.07	4,685.97	0.00	0.00	0.00	
16,100.00	91.65	359.13	11,238.82	4,745.49	-619.59	4,785.40	0.00	0.00	0.00	
16,200.00	91.65	359.13	11,235.94	4,845.44	-621.11	4,884.84	0.00	0.00	0.00	
16,300.00	91.65	359.13	11,233.06	4,945.38	-622.63	4,984.28	0.00	0.00	0.00	
16,336.72	91.65	359.13	11,232.00	4,982.09	-623.19	5,020.79	0.00	0.00	0.00	
TD: 16336.72' MD, 11232.00' TVD, 5020.79' VS										



Dixon
Planning Report



Database:	dixon-compass	Local Co-ordinate Reference:	Well (02) Sandra Jean 23 Fed Com 705H
Company:	Avant Operating, LLC	TVD Reference:	26.5' RKB @ 3650.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	26.5' RKB @ 3650.50usft
Site:	Sandra Jean 23 Fed Com Pad 3	North Reference:	Grid
Well:	(02) Sandra Jean 23 Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	705H		
Design:	Plan 3.0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP - v3 - (02) Sandra J	0.00	0.00	10,897.80	-153.45	-587.99	565,071.47	755,413.69	32.55151839	-103.63855457
- plan misses target center by 42.99usft at 10929.87usft MD (10897.80 TVD, -153.45 N, -545.00 E)									
- Point									
FTP - v3 - (02) Sandra J	0.00	0.00	11,107.37	-103.41	-588.34	565,121.51	755,413.34	32.55165593	-103.63855465
- plan misses target center by 42.63usft at 11147.92usft MD (11108.28 TVD, -104.71 N, -545.74 E)									
- Point									
LTP/BHL - v3 - (02) Sandra J	0.00	0.00	11,182.00	4,982.09	-623.19	570,207.01	755,378.49	32.56563435	-103.63856004
- plan misses target center by 50.00usft at 16336.72usft MD (11232.00 TVD, 4982.09 N, -623.19 E)									
- Point									
PPP-3 - v3 - (02) Sandra J	0.00	0.00	11,229.36	3,758.58	-614.82	568,983.50	755,386.86	32.56227132	-103.63855880
- plan misses target center by 39.23usft at 15113.81usft MD (11267.21 TVD, 3759.83 N, -604.58 E)									
- Point									
PPP-2 - v3 - (02) Sandra J	0.00	0.00	11,280.59	2,435.03	-605.77	567,659.95	755,395.91	32.55863330	-103.63855746
- plan misses target center by 32.71usft at 13789.35usft MD (11305.35 TVD, 2436.07 N, -584.43 E)									
- Point									
LP - v3 - (02) Sandra Jean	0.00	0.00	11,362.03	331.54	-591.38	565,556.46	755,410.30	32.55285148	-103.63855531
- plan misses target center by 39.19usft at 11684.41usft MD (11365.96 TVD, 332.25 N, -552.39 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
5,400.00	5,400.00	0.00	0.00	Start Build 2.00
5,731.72	5,730.97	-5.20	-18.47	Start 4568.64 hold at 5731.72 MD
10,300.36	10,269.03	-148.25	-526.53	Start Drop -2.00
10,632.07	10,600.00	-153.45	-545.00	Start 300.91 hold at 10632.07 MD
10,932.98	10,900.91	-153.45	-545.00	KOP: 10932.98' MD, 10900.91' TVD, 12.31°DLS
11,677.50	11,366.16	325.34	-552.29	EOC: 11677.50' MD, 11366.16' TVD, 387.84' VS
16,336.72	11,232.00	4,982.09	-623.19	TD: 16336.72' MD, 11232.00' TVD, 5020.79' VS

API: 30-025-52677

REGULATORY: BLM

PERMIT #

RIG: H&P 255

KB: 25.5

GL: 3623



AFE: NM0070

Sandra Jean 23 Fed Com 705H

Wolfcamp

Lea County, NM

Sec. 23, T-20S, R-33E; 200 FSL, 1808 FWL

SHL:

Lat: 32.5519296, Long: -103.6367732 (NAD83)

HOLE SIZE	MD	FORMATION	TVD	MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS
	120	30" Conductor	120	SPUD MW	20 "		
24"				8.4 PPG	94# J-55 BTC	Top of Lead: Surface 50% Excess	Circ cmt to surface is a regulatory requirement
				FRESH		Top of Tail: 1153' 20% Excess	Casing must be set 25' into the Rustler
	1,428	Rustler	1,428	TD MW	+/- 12 Bowsprings		
	1,453	SURF CSG PT	1,453	10.0 ppg	1 joint shoe track		MUD: Fresh water only
17.5"				DRLOUT MW	13 3/8 "	Top of Lead: Surface 50% OH Excess	Circ cmt to surface is a regulatory requirement
				10.0 ppg	54.5# J-55 BTC	Top of Tail: 2720' 20% Excess	
	3,200	Yates	3,200	TD MW	+/- 23 Bowsprings		
	3,400	INTRM1 CSG PT	3,400	10.5 ppg	1 joint shoe track		
12.25"	3,593	Capitan Reef	3,593	DRILLOUT MW	SPLIT STRING (GRADE) 9 5/8 "	Top of Lead: Surface 50% OH Excess	
				8.4 ppg	0' - 4000'	Top of Tail: 4160' 20% Excess	
				FRESH	40# J-55 BTC		
				TD MW	+/- 14 Bowsprings		
VERT	5,200	INTRM2 CSG PT	5,200	8.4 ppg	1 joint shoe track		
	5,250	Cherry Canyon	5,250	DRLOUT MW	5 1/2 "		
	5,260	Delaware	5,260	9.2 ppg	20# P-110 HC Intrepid SP		
	6,706	Brushy Canyon	6,700	CUT BRINE			
8.75"	8,335	Bone Spring	8,321	KOP MW			
	9,414	1st BS Sand	9,395	9.5 ppg			
	9,931	2nd BS Sand	9,909	EOC MW			
	10,820	3rd BS Sand	10,795	CUT BRINE			
CRV	10,898	KOP	10,873	9.5 ppg	OBM	TD MW 9.8 ppg	
8.75"							16,233 MD
							5,012 VS
LAT							11,350 TVD
	11,648	EOC	11,350	VS: 452'	Est. BHST = 179°, Est. BHCT = 162°		BHL: 100' FNL, 1254' FWL
8.75"					FLOTATION COLLAR @ +/- KOP		
					+/- 37 Singlebows	Top of Lead: Surface 50% OH Excess	Expected BH Pressure: 5312
					5,100 - 10,698		
					+/- 27 Doublebows	Top of Tail: 10898' (KOP) 20% Excess	
					10,698 - 11,848		
					+/- 54.6 Solid bodies		
					11,848 - 16,233		

DIRECTIONS TO LOCATION:

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

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-52677	² Pool Code 58980	³ Pool Name Teas; Wolfcamp
⁴ Property Code 334758	⁵ Property Name SANDRA JEAN 23 FED COM	⁶ Well Number 705H
⁷ OGRID No. 330396	⁸ Operator Name AVANT OPERATING, LLC	⁹ Elevation 3623

¹⁰ Surface Location

UL or lot no. N	Section 23	Township 20 S	Range 33 E	Lot Idn	Feet from the 200	North/South line SOUTH	Feet from the 1808	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 23	Township 20 S	Range 33 E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 1254	East/West line WEST	County LEA
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¹² Dedicated Acres SECTION 23: 640 Ac.	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 Legend:

- = SURFACE LOCATION (SHL)
- = LTP/BHL
- △ = FTP/PPP-1
- = KICK OFF POINT (KOP)
- ◇ = LANDING POINT (LP)
- ⊙ = FOUND 1912 USGLO BRASS CAP

17 OPERATOR CERTIFICATION

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

Sarah Ferreyros 7/15/24

Signature Date

Sarah Ferreyros

Printed Name

sarah@avantnr.com

E-mail Address

18 SURVEYOR CERTIFICATION

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

6/28/24

Date of Survey

Plat Revised: 7/03/24

Signature and Seal of Professional Surveyor:

Certificate Number

14831

FIRST TAKE POINT/PPP-1

NAD 83 NME, NMSPC ZONE 3001

100' FSL, 1254' FWL

SEC. 23, T20S, R33E

Y= 565121.71 N

X= 755448.34 E

LAT: 32.5516559° N

LONG: 103.6384411° W

LANDING POINT

NAD 83 NME, NMSPC ZONE 3001

535' FSL, 1254' FWL

SEC. 23, T20S, R33E

Y= 565556.70 N

X= 755445.30 E

LAT: 32.5528515° N

LONG: 103.6384417° W

PPP-2

NAD 83 NME, NMSPC ZONE 3001

2639' FSL, 1254' FWL

SEC. 23, T20S, R33E

Y= 567660.19 N

X= 755430.91 E

LAT: 32.5586333° N

LONG: 103.6384439° W

PPP-3

NAD 83 NME, NMSPC ZONE 3001

1324' FSL, 1254' FWL

SEC. 23, T20S, R33E

Y= 568983.74 N

X= 755421.86 E

LAT: 32.5627114° N

LONG: 103.6384452° W

CORNER COORDINATES TABLE

NAD 83 NME, NMSPC ZONE 3001

A - Y= 570296.85 N, X= 754158.86 E

B - Y= 570318.86 N, X= 756801.34 E

D - Y= 567655.87 N, X= 754176.61 E

F - Y= 565014.55 N, X= 754195.06 E

G - Y= 565029.65 N, X= 756839.74 E

CORNER COORDINATES TABLE

NAD 83 NME, NMSPC ZONE 3001

A - LAT.=32.5659031° N, LONG.=103.6425168° W

B - LAT.=32.5659162° N, LONG.=103.6339394° W

D - LAT.=32.5586439° N, LONG.=103.6425148° W

F - LAT.=32.5513837° N, LONG.=103.6425106° W

G - LAT.=32.5513778° N, LONG.=103.6339276° W

LAST TAKE POINT/
BOTTOM HOLE LOCATION

NAD 83 NME, NMSPC ZONE 3001

Y= 570207.30 N

X= 755413.49 E

LAT: 32.5656345° N

LONG: 103.6384464° W

Released to Imaging: 9/14/2024 10:57:41 AM

Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SESW / 32.5519296 / -103.6367732	County or Parish/State: LEA / NM
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552677	Operator: AVANT OPERATING LLC	

Notice of Intent

Sundry ID: 2792430

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/24/2024

Time Sundry Submitted: 01:07

Date proposed operation will begin: 05/24/2024

Procedure Description: Avant Operating, LLC requests to move the SHL from what was originally permitted. Please see attached updated plats to reflect this change. Old SHL is 200' FSL & 1768' FWL. New SHL is 200' FSL & 1808' FWL.

NOI Attachments

Procedure Description

Sandra_Jean_23_Fed_Com_605H_SHL_Change_Attachments_5_24_24_20240524130715.pdf

Received by OCD: 8/20/2024 7:13:36 PM

Page 24 of 29

Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SESW / 32.5519296 / -103.6367732	County or Parish/State: LEA / NM
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552677	Operator: AVANT OPERATING LLC	

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MEGHAN TWELE	Signed on: MAY 24, 2024 01:07 PM
Name: AVANT OPERATING LLC	
Title: Contract Regulatory Analyst	
Street Address: 1515 WYNKOOP ST SUITE 700	
City: DENVER	State: CO
Phone: (720) 339-6880	
Email address: MTWELE@OUTLOOK.COM	

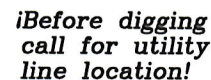
Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CODY LAYTON	BLM POC Title: Assistant Field Manager Lands & Minerals
BLM POC Phone: 5752345959	BLM POC Email Address: clayton@blm.gov
Disposition: Approved	Disposition Date: 06/07/2024
Signature: Cody R. Layton	

SANDRA JEAN 23 FED COM PAD 3
SEC. 23, T-20-S, R-33-E, N.M.P.M.,
LEA COUNTY, N.M.



Bureau
of Land
Management

SE 1/4
SW 1/4

NOTES:

1. BASIS OF BEARING: MONUMENTED SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 23, T-20-S, R-33-E, N.M.P.M., LEA COUNTY, NEW MEXICO.
BEARS: N 89°40'22" E - 2644.72'
2. ALL BEARINGS, DISTANCES & COORDINATES SHOWN ARE BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83, IN U.S. SURVEY FEET.
3. CONTRACTOR SHALL CONTACT "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINE OR CABLES ON WELL PAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
4. UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

I, JOHN A. VUKONICH, NEW MEXICO PROFESSIONAL SURVEYOR NO. 14831, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT.

JOHN A. VUKONICH P.E./P.S., N.M.P.S. #14831

DATE _____

OWNER	SQ. FT.	ACRES
BUREAU OF LAND MANAGEMENT	198,055	4.547

		P.O. Box 3651 Farmington, NM 87499 Office: (505) 334-0408	
DWG. No. : 11746-PAD		Revision/By: 4/A.A.D.	
Drawn by: A.A.D.	Date Drawn: 2/20/23	Rev. Date: 5/16/24	
Surveyed: 2/14/23 & 2/30/24	App by: J.A.V.	Sheet: 1	

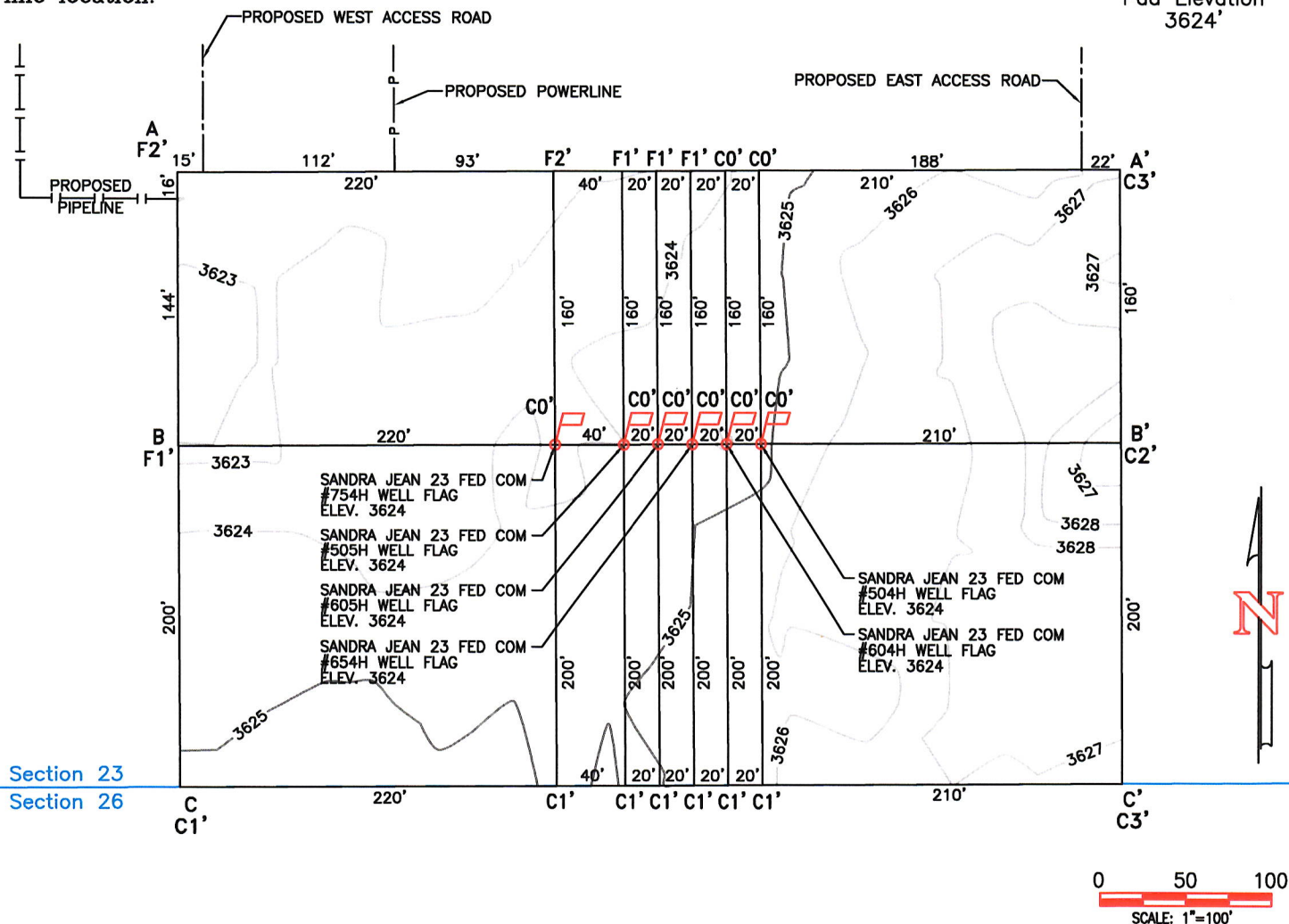
AVANT OPERATING, LLC

SANDRA JEAN 23 FED COM PAD 3

SECTION 23, T-20-S, R-33-E, N.M.P.M., LEA COUNTY, N.M.

*Before digging
call for utility
line location!*

Proposed
Pad Elevation
3624'



NOTES:

1. ALL BEARINGS, DISTANCES & COORDINATES SHOWN ARE BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83, IN U.S. SURVEY FEET.
2. CONTRACTOR SHALL CONTACT "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINE OR CABLES ON WELL PAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
3. UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
4. CUT AND FILL CALCULATIONS ARE ROUNDED TO THE NEAREST FOOT.

I, JOHN A. VUKONICH, NEW MEXICO PROFESSIONAL SURVEYOR NO. 14831, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT.

JOHN A. VUKONICH P.E./P.S., N.M.P.S. #14831

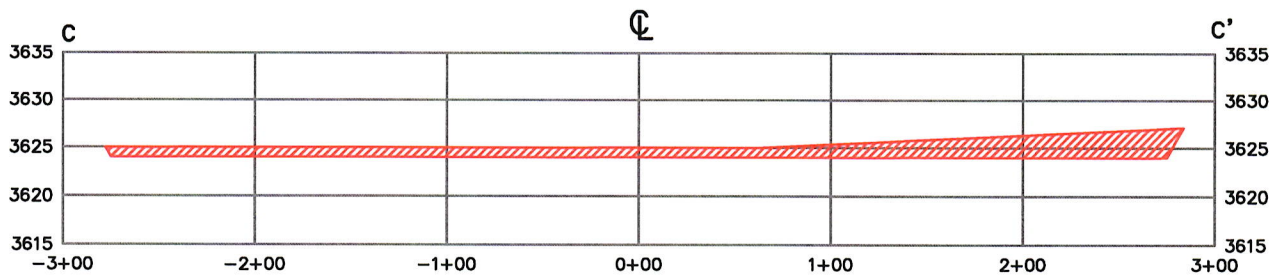
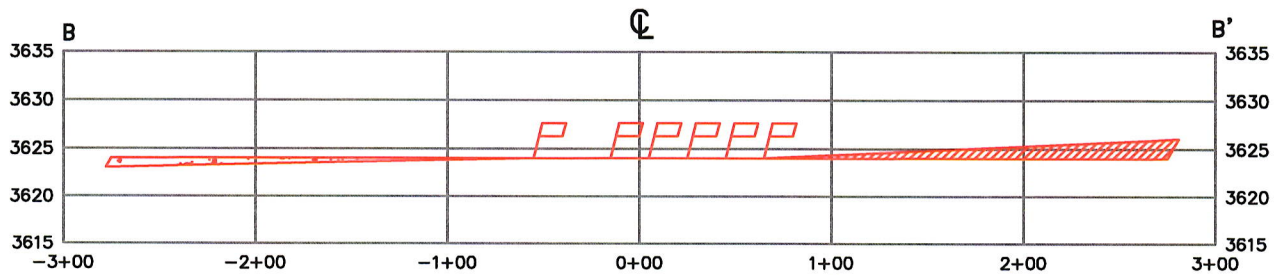
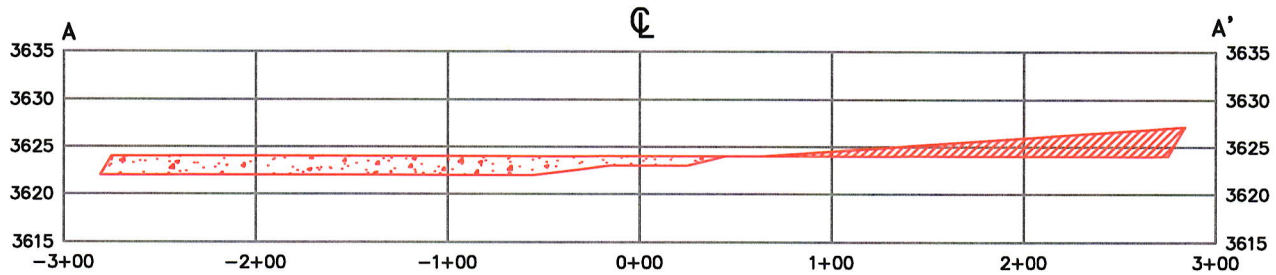
DATE

5/23/2024

WELL FLAG	NAD 83
SANDRA JEAN 23 FED COM #754H 200' FSL, 1748' FWL	LAT.=32.5519297° N LONG.=103.6368378° W
SANDRA JEAN 23 FED COM #505H 200' FSL, 1788' FWL	LAT.=32.5519293° N LONG.=103.6367082° W
SANDRA JEAN 23 FED COM #605H 200' FSL, 1808' FWL	LAT.=32.5519296° N LONG.=103.6366431° W
SANDRA JEAN 23 FED COM #654H 200' FSL, 1828' FWL	LAT.=32.5519295° N LONG.=103.6365782° W
SANDRA JEAN 23 FED COM #604H 200' FSL, 1848' FWL	LAT.=32.5519295° N LONG.=103.6365132° W
SANDRA JEAN 23 FED COM #504H 200' FSL, 1868' FWL	LAT.=32.5519295° N LONG.=103.6364483° W

		P.O. Box 3651 Farmington, NM 87499 Office: (505) 334-0408
DWG. No. : 11746-C01	Revision/By: 3/A.A.D.	
Drawn by: C.B.	Date Drawn: 02/22/23	Rev. Date: 5/16/24
Surveyed: 02/18/23 & 4/30/24	App by: J.A.V.	Sheet: 1 of 2

AVANT OPERATING, LLC
SANDRA JEAN 23 FED COM PAD 3
SECTION 23, T-20-S, R-33-E, N.M.P.M.,
LEA COUNTY, N.M.



Horizontal Scale: 1" = 100'
 Vertical Scale: 1" = 20'

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Surveyed: 02/18/23 & 4/30/24	App by: J.A.V.	Sheet: 2 of 2	

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

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

CONDITIONS

Action 375881

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 375881
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	REQUIRES NSP	9/14/2024