

Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SWSW /	County or Parish/State:
Well Number: 755H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552682	Well Status: Approved Application for Permit to Drill	Operator: AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2780578

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 03/20/2024 Time Sundry Submitted: 10:16

Date proposed operation will begin: 06/01/2024

Procedure Description: Avant Operating, LLC requests to add a pilot hole to this well, please see attached proposed wellbore schematic, directional survey and cement procedure & proposal.

NOI Attachments

Procedure Description

Sandra_Jean_23_Fed_Com_755H_Pilot_Hole_Sundry_Attachments_20240320101615.pdf

Conditions of Approval

Specialist Review

Sandra_Jean_23_Fed_Com_755H_Sundry_ID_2780578_20240410080512.pdf

Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SWSW /	County or Parish/State:
Well Number: 755H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
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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: MAR 20, 2024 10:16 AM

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: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 04/10/2024

Signature: Long Vo

AFE: NM0106

Sandra Jean 23 Fed Com 755H

API:

REGULATORY: BLM

PERMIT #

RIG: H&P 460

KB: 3648.5 (26.5')

GL: 3622'

Wolfcamp

Lea County, NM

Sec. 23, T-20S, R-33E; 200 FSL, 1187 FWL

SHL:

Lat: 32.5519315, Long: -103.6386586 (NAD83)

HOLE SIZE	MD	FORMATION	TVD	MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS
	120	30" Conductor	120	SPUD MW 8.4 ppg	20 " 94# J-55 BTC	LEAD: 12.8 PPG Top of Lead: 0 50% Excess	Circ cement to surface is a NMOCD requirement
24 "	1,428	Rustler	1,428	FRESH 10 ppg	+/- 14 Bowsprings 1 20' pup jt 1 joint shoe track, prebucked	TAIL: 14.8 PPG Top of Tail: 1,153' 20% Excess	Casing must be set 25' into the Rustler MUD: Fresh water only
17 1/2"	1,453	SURF CSG PT	1,453	DRLOUT MW 10 ppg	13 3/8 " 54.5# J-55 LTC	LEAD: 12.8 PPG Top of Lead: 0' 50% Excess	Circ cement to surface is a NMOCD requirement
	3,201	Yates	3,200	BRINE	1 20' pup jt	TAIL: 14.2 PPG Top of Tail: 2641' 20% Excess	
	3,301	INTRM CSG PT	3,300	TD MW 10.5 ppg	+/- 8 Bowsprings 1 joint shoe track		
	3,594	Capitan Reef	3,593	DRLOUT MW 8.4 ppg	10 3/4 " 40.5# J-55 LTC	LEAD: 12.8 PPG Top of Lead: 0' 50% excess	
12 1/4"	5,203	INTRM 2 CSG PT	5,200	FRESH	1 20' pup jt +/- 8 Bowsprings 1 joint shoe track	TAIL: 14.2 PPG Top of Tail: 4160' 20% Excess	
	5,253	Cherry Canyon	5,250	TD MW 8.6 ppg			
	5,263	Delaware	5,260	DRILLOUT MW 8.8 ppg	7 5/8 " 29.7# P-110 HC LTC	LEAD: 10.7 PPG Top of Lead: 0' 50% excess	
9 7/8"	6,705	Brushy Canyon	6,700	CUT BRINE		TAIL: 14.2 PPG Top of Tail: 8007.2' 20% Excess	
	8,328	Bone Springs	8,321	TD MW 9.2 ppg	+/- 10 Bowsprings 1 joint shoe track		
	9,403	1st BS Sand	9,395				
	9,918	2nd BS Sand	9,909	DRLOUT MW 9.2	5 1/2 " 20# P-110 HC SEMI-FLUSH CONNECTIONS (5.748"OD) 9518' - 11333'		
	10,018	INTRM 3 CSG PT	10,009	OBM	Lat MW 9.5	OBM	
6 3/4 " VERTICAL	10,805	3rd BS Sand	10,795	KOP MW 9.8	TD MW 9.8		
	10,933	Cement Plug #2 Top	10,923				
	11,310	Wolfcamp	11,300				
	11,333	KOP	11,323				
6 3/4 " CURVE	11,751	Cement Plug #2 Btm	11,750				
	12,083	EOC	11,800				
		EOC VS = 330'					
	11,951	Cement Plug #1 Top	11,950				
	12,001	Penn Shale	12,000				
6 3/4 " LATERAL	12,601	Strawn	12,600	TD MW 12.0 ppg	5 1/2 " 20# P-110 HC GBGD	LEAD: 10.7 PPG Top of Lead: 0 50% Excess	16,737 ' MD
	12,860	PILOT HOLE TD	12,850		0' - 9518' & 11333' - 16737'	TAIL: 14.5 PPG Top of Tail: 11333 20% Excess	4,985 ' VS
	12,860	Cement Plug #1 Btm	12,850		1 15' pup jt 2 20' Marker Jts		11,800 ' TVD
					+/- 11 Bowsprings +/- 27 Doublebows +/- 110 Solid Bodies	All aqueous fluids (spacer and disp) left inside or outside of pipe must have biocide & corrosion inhibitor	BHL: 100 FNL, 792 FWL
							Expected BHL Pressure: 5522

Curve
12"/100'

Plug #2

Plug #1

Lat. Azi = VS Azi. = 359.63°

Est BHST = 183°F, Est BHCT = 166°F

Pilot hole plug #1: Cement plug spotted from Pilot Hole TD to 50' above Penn Shale per Onshore Order 2.

Pilot hole plug #2: Cement plug spotted 200' above plug #1 to 400' above KOP.

DIRECTIONAL PLAN

ANNOTATION

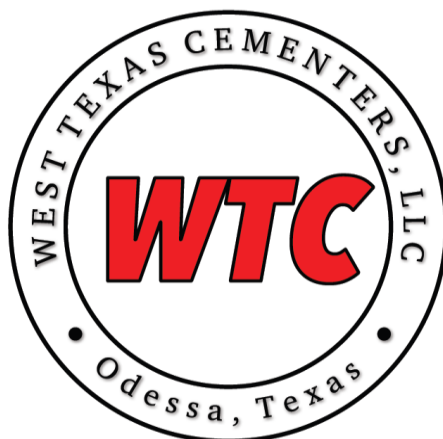
DIRECTIONS TO LOCATION:

Drilling Engineer: Ryan Harris

Sandra Jean 23 Fed Com 755H (H&P 460)

Date: 3/6/2024

PROPOSAL#: 230714163647-C



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 #755H

Lea County, NM

Rig: H&P 460

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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3/6/2024 11:41

VERSION: v0.29

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

Surface



PROPOSAL#: 230714163647-C

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 #755H
Lea County, NM
Rig: H&P 460

Surface



PROPOSAL#: 230714163647-C

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 #755H
Lea County, NM
Rig: H&P 460

1st Intermediate



PROPOSAL#: 230714163647-C

WELL INFORMATION						
MUD	10.5# Brine					
PREVIOUS PIPE	20" 94# CSG to 1453					
OPEN HOLE	17.5" OH to 3301					
CASING/INJECTION	13.375" 54.5# J-55/LTC to 3301					
MD	3301					
TVD	3300					
EST BHST/BHCT	107-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	1188	17.5	13.375	50%	0.1856	220.5
Tail	660	17.5	13.375	20%	0.1485	98.0
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+0.05% R-1300+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A						
VOLUME	1435-SX					
DENSITY	12.8-ppg					
YIELD	1.9-cf/sx					
MIX WATER	10.17-gps					
TOP OF CEMENT	Surface					
EXCESS	50%					
						485.6-bbls

485.6-bbls

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

1st Intermediate



PROPOSAL#: 230714163647-C

Tail		
	100% Class C+5% SALT+0.005GPS NoFoam V1A	
VOLUME	430-SX	104.2-bbls
DENSITY	14.8-ppg	
YIELD	1.36-cf/sx	
MIX WATER	6.51-gps	
TOP OF CEMENT	2641-ft	
EXCESS	20%	
DISPLACEMENT		
	Displacement	
VOLUME	504.1-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

2nd Intermediate



PROPOSAL#: 230714163647-C

WELL INFORMATION						
MUD	8.6# Fresh Water					
PREVIOUS PIPE	13.375" 54.5# CSG to 3301					
OPEN HOLE	12.25" OH to 5203					
CASING/INJECTION	10.75" 40.5# J-55/LTC to 5203					
MD	5203					
TVD	5200					
EST BHST/BHCT	122-F / 106-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	3301	12.615	10.75		0.0423	139.7
Lead	859	12.25	10.75	50%	0.0503	43.2
Tail	1043	12.25	10.75	20%	0.0402	41.9
SHOE JOINT	40	10.75	10.05		0.0981	3.9
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	545-SX184.4-bbls					
DENSITY	12.8-ppg					
YIELD	1.9-cf/sx					
MIX WATER	10.18-gps					
TOP OF CEMENT	Surface					
EXCESS	50%					

184.4-bbls

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

2nd Intermediate



PROPOSAL#: 230714163647-C

Tail		
	100% Class C+5% SALT+0.005GPS NoFoam V1A	
VOLUME	190-SX	46-bbls
DENSITY	14.8-ppg	
YIELD	1.36-cf/sx	
MIX WATER	6.51-gps	
TOP OF CEMENT	4160-ft	
EXCESS	20%	
DISPLACEMENT		
	Displacement	
VOLUME	506.5-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

3rd Intermediate



PROPOSAL#: 230714163647-C

WELL INFORMATION						
MUD	9.2# Cut Brine					
PREVIOUS PIPE	10.75" 40.5# CSG to 5203					
OPEN HOLE	9.875" OH to 10018					
CASING/INJECTION	7.625" 29.7# P-110 HC/LTC to 10018					
MD	10018					
TVD	10009					
EST BHST/BHCT	161-F / 139-F (0.8-F/100-FT)					
NOTES	Standby charges start after WTC has been on location for more than 6-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	5203	10.05	7.625		0.0416	216.6
Lead	2804	9.875	7.625	50%	0.0574	160.9
Tail	2011	9.875	7.625	20%	0.0459	92.3
SHOE JOINT	40	7.625	6.875		0.0459	1.8
FLUIDS						
SPACER						
Fresh Water						
VOLUME	20-bbl					
Lead						
100% ProLite+5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.2% FL-24+3PPS Gilsonite+0.005GPS NoFoam V1A						
VOLUME	630-SX					
DENSITY	10.7-ppg					
YIELD	3.38-cf/sx					
MIX WATER	21.06-gps					
TOP OF CEMENT	Surface					
EXCESS	50%					
						379.2-bbls

379.2-bbls

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

3rd Intermediate



PROPOSAL#: 230714163647-C

Tail		
50% B_Poz+50% Class H+5% SALT+0.2% FR-5+0.2% FL-24+0.005GPS NoFoam V1A		
VOLUME	420-SX	95-bbls
DENSITY	14.2-ppg	
YIELD	1.27-cf/sx	
MIX WATER	5.79-gps	
TOP OF CEMENT	8007-ft	
EXCESS	20%	
DISPLACEMENT		
Displacement		
VOLUME	458.1-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

Kick Off Plug



PROPOSAL#: 230714163647-C

WELL INFORMATION							
MUD		12# OBM					
PREVIOUS PIPE		7.625" 29.7# CSG to 10018					
OPEN HOLE		6.75" OH to 12860					
MD		12860					
TVD		12850					
EST BHST/BHCT		183-F / 146-F (0.8-F/100-FT)					
DRILL PIPE		5" DP					
NOTES		Standby charges start after WTC has been on location for more than 8-hrs.					
VOLUMES							
FLUID NAME		LENGTH	OD	ID	XS	FACTOR	VOLUME
		(ft)	(in.)	(in.)	(%)	(bbl/ft)	(bbl)
Plug Back		909	6.75	0	20%	0.0531	48.3
KOP		818	6.75	0	20%	0.0531	43.4
FLUIDS							
SPACER							
Wt. Spacer 33.47GPB Water+8PPB PolyScrub 4320+228.7PPB Barite+1GPB HoleScrub 4311+1PPB R-1300							
VOLUME		16-bbl					
DENSITY		12.5-ppg					
Plug Back							
100% Class H+0.35% FR-5+0.2% C-37+0.005GPS NoFoam V1A							
VOLUME		230-SX					48.3-bbls
DENSITY		15.6-ppg					
YIELD		1.18-cf/sx					
MIX WATER		5.2-gps					
TOP OF CEMENT		11951-ft					
EXCESS		20%					
DISPLACEMENT							
Wt. Spacer 33.47GPB Water+8PPB PolyScrub 4320+228.7PPB Barite+1GPB HoleScrub 4311+1PPB R-1300							
VOLUME		14-bbl					
DENSITY		12.5-ppg					

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

Kick Off Plug



PROPOSAL#: 230714163647-C

DISPLACEMENT		
OBM		
VOLUME	191.6-bbl	
SPACER		
Wt. Spacer 33.47GPB Water+8PPB PolyScrub 4320+228.7PPB Barite+1GPB HoleScrub 4311+1PPB R-1300		
VOLUME	16-bbl	
DENSITY	12.5-ppg	
KOP		
100% Class H+5% SALT+0.1% CRT-201+1.3% C-37+0.005GPS NoFoam V1A		
VOLUME	275-SX	44.1-bbls
DENSITY	18-ppg	
YIELD	0.9-cf/sx	
MIX WATER	2.99-gps	
TOP OF CEMENT	10933-ft	
EXCESS	20%	
DISPLACEMENT		
Wt. Spacer 33.47GPB Water+8PPB PolyScrub 4320+228.7PPB Barite+1GPB HoleScrub 4311+1PPB R-1300		
VOLUME	14-bbl	
DENSITY	12.5-ppg	
DISPLACEMENT		
OBM		
VOLUME	174.1-bbl	

Avant Natural Resources
Sandra Jean 23 Fed Com #755H
Lea County, NM
Rig: H&P 460

Production



PROPOSAL#: 230714163647-C

WELL INFORMATION						
MUD	9.8# OBM					
PREVIOUS PIPE	7.625" 29.7# CSG to 10018					
OPEN HOLE	6.75" OH to 16737					
CASING/INJECTION	5.5" 20# P-110HC/Semi-Flush Connections to 16737					
MD	16737					
TVD	11800					
EST BHST/BHCT	239-F / 222-F (1.34-F/100-FT)					
KOP	11333					
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	10018	6.875	5.5		0.0165	165.6
Lead	1315	6.75	5.5	50%	0.0223	29.3
Tail	5404	6.75	5.5	20%	0.0178	96.5
SHOE JOINT	80	5.5	4.778		0.0222	1.8
FLUIDS						
SPACER						
Wt. Spacer 37.04GPB Water+8PPB PolyScrub 4320+106.59PPB Barite+1GPB HoleScrub 4311+1PPB R-1300						
VOLUME	40-bbl					
DENSITY	12.5-ppg					
Lead						
100% ProLite+5PPS Plexcrete STE+2% SMS+0.9% R-1300+0.5% FL-24+0.5% MagBond+0.005GPS NoFoam V1A						
VOLUME	330-SX					
DENSITY	10.7-ppg					
YIELD	3.36-cf/sx					
MIX WATER	21.1-gps					
TOP OF CEMENT	Surface					
EXCESS	50%					
	197.5-bbls					

197.5-bbls

Avant Natural Resources
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Lea County, NM
Rig: H&P 460

Production



PROPOSAL#: 230714163647-C

Tail		
50% B_Poz+50% Class H+5% SALT+0.05% RCKCAS-100+0.75% FR-5+0.5% FL-24+0.5% MagBond+0.005GPS NoFoam V1A		
VOLUME	455-SX	98.9-bbls
DENSITY	14.5-ppg	
YIELD	1.22-cf/sx	
MIX WATER	5.32-gps	
TOP OF CEMENT	11333-ft	
EXCESS	20%	
DISPLACEMENT		
Fresh Water+ 0.25GPT Plexicide 24L+1GPT Corplex		
VOLUME	369.4-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
Premium C	WTC270	API Cement
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)
MagBond	WTC271	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

WELL DETAILS: Sandra Jean 23 Fed Com 755H**Ground Elev: 3631.0 KB: 3657.5**

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	565221.54	755380.66	32.5519315°N	103.6386586°W

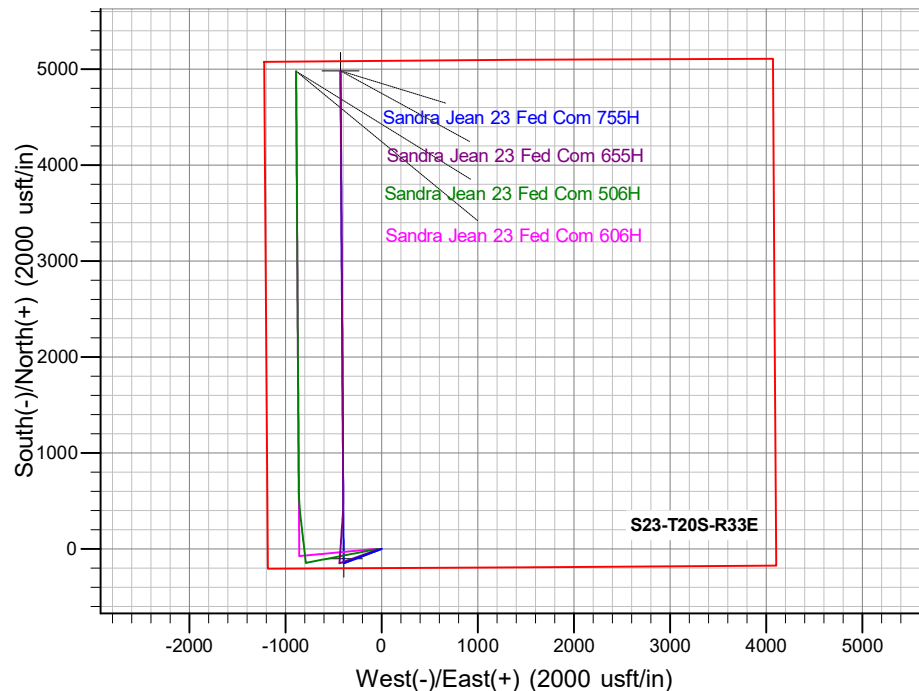
PROJECT DETAILS: Lea Co., NM (NAD 83)

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

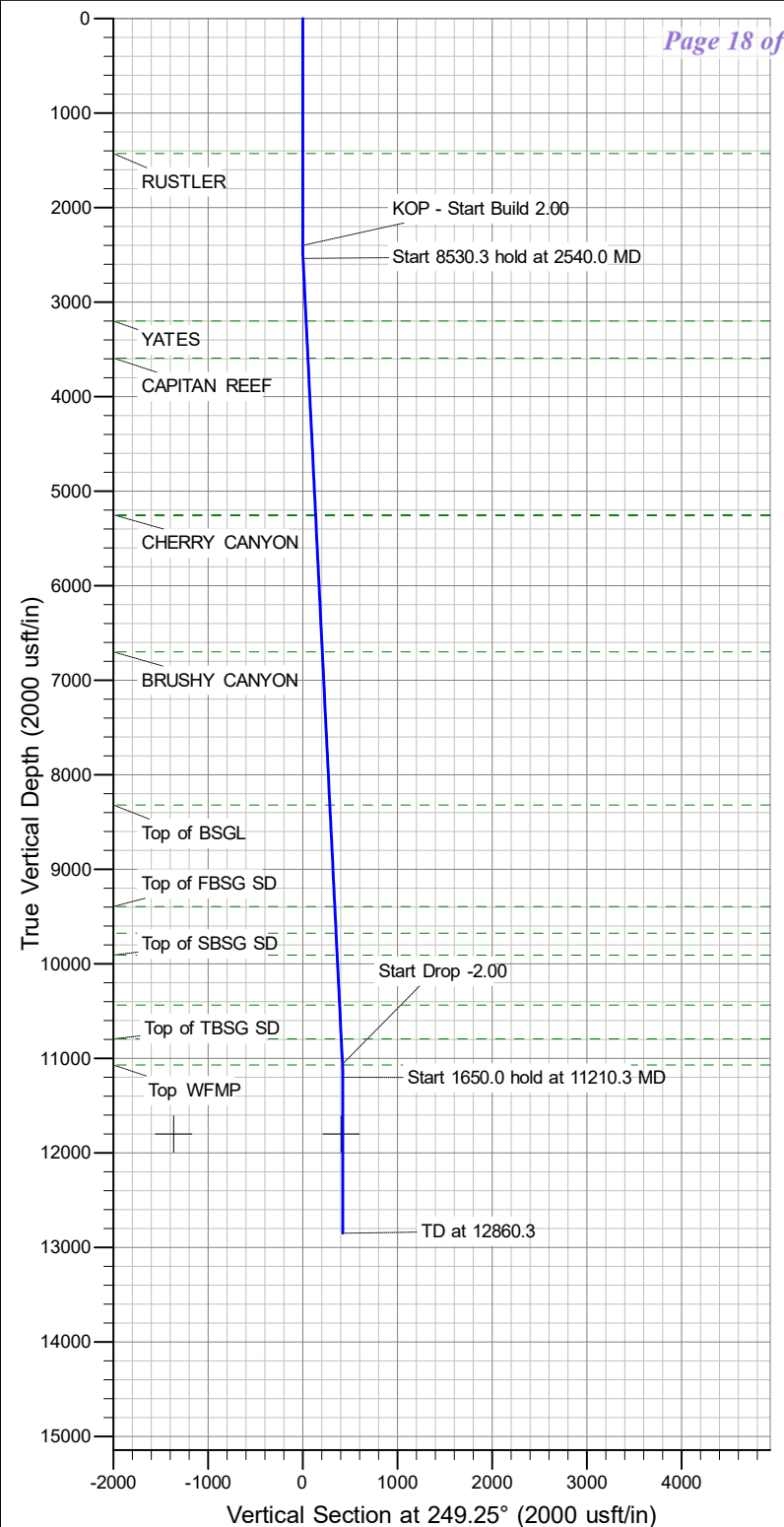
System Datum: Mean Sea Level

G Azimuths to Grid North
T True North: -0.37°
M Magnetic North: 8.25°

Magnetic Field
 Strength: 49613.0nT
 Dip Angle: 60.73°
 Date: 12/31/2004
 Model: IGRF2000

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2400.0	0.00	0.00	2400.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 2.00
3	2540.0	2.80	249.25	2539.9	-1.2	-3.2	2.00	249.25	3.4	Start 8530.3 hold at 2540.0 MD
4	11070.3	2.80	249.25	11060.1	-148.8	-392.8	0.00	0.00	420.0	Start Drop -2.00
5	11210.3	0.00	0.00	11200.0	-150.0	-396.0	2.00	180.00	423.5	Start 1650.0 hold at 11210.3 MD
6	12860.3	0.00	0.00	12850.0	-150.0	-396.0	0.00	0.00	423.5	TD at 12860.3





Avant Operating, LLC

Lea Co., NM (NAD 83)

Sandra Jean 23 Fed Com Pad 4

Sandra Jean 23 Fed Com 755H

PH

Plan: Plan 0.1

Standard Planning Report

05 March, 2024





Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 755H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 4	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PH		
Design:	Plan 0.1		

Project	Lea Co., NM (NAD 83)		
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 4		
Site Position:		Northing:	565,393.22 usft
From:	Lat/Long	Easting:	757,375.07 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.5523674°N
		Longitude:	103.6321825°W

Well	Sandra Jean 23 Fed Com 755H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
Grid Convergence:	0.37 °		
		Latitude:	32.5519315°N
		Longitude:	103.6386586°W
		Ground Level:	3,631.0 usft

Wellbore	PH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.62	60.73	49,613.04053509

Design	Plan 0.1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	249.25

Plan Survey Tool Program	Date	3/5/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	12,860.3 Plan 0.1 (PH)	B001Mb_MWD+HRGM	
			OWSG MWD + HRGM	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,540.0	2.80	249.25	2,539.9	-1.2	-3.2	2.00	2.00	0.00	249.25	
11,070.3	2.80	249.25	11,060.1	-148.8	-392.8	0.00	0.00	0.00	0.00	
11,210.3	0.00	0.00	11,200.0	-150.0	-396.0	2.00	-2.00	0.00	180.00	
12,860.3	0.00	0.00	12,850.0	-150.0	-396.0	0.00	0.00	0.00	0.00	



Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 755H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 4	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PH		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,428.0	0.00	0.00	1,428.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
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
1,900.0	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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
2,500.0	2.00	249.25	2,500.0	-0.6	-1.6	1.7	2.00	2.00	0.00
2,540.0	2.80	249.25	2,539.9	-1.2	-3.2	3.4	2.00	2.00	0.00
Start 8530.3 hold at 2540.0 MD									
2,600.0	2.80	249.25	2,599.9	-2.2	-5.9	6.4	0.00	0.00	0.00
2,700.0	2.80	249.25	2,699.8	-4.0	-10.5	11.2	0.00	0.00	0.00
2,800.0	2.80	249.25	2,799.6	-5.7	-15.1	16.1	0.00	0.00	0.00
2,900.0	2.80	249.25	2,899.5	-7.4	-19.6	21.0	0.00	0.00	0.00
3,000.0	2.80	249.25	2,999.4	-9.2	-24.2	25.9	0.00	0.00	0.00
3,100.0	2.80	249.25	3,099.3	-10.9	-28.8	30.8	0.00	0.00	0.00
3,200.0	2.80	249.25	3,199.2	-12.6	-33.3	35.7	0.00	0.00	0.00
3,200.8	2.80	249.25	3,200.0	-12.6	-33.4	35.7	0.00	0.00	0.00
YATES									
3,300.0	2.80	249.25	3,299.0	-14.4	-37.9	40.5	0.00	0.00	0.00
3,400.0	2.80	249.25	3,398.9	-16.1	-42.5	45.4	0.00	0.00	0.00
3,500.0	2.80	249.25	3,498.8	-17.8	-47.0	50.3	0.00	0.00	0.00
3,594.3	2.80	249.25	3,593.0	-19.5	-51.4	54.9	0.00	0.00	0.00
CAPTAN REEF									
3,600.0	2.80	249.25	3,598.7	-19.5	-51.6	55.2	0.00	0.00	0.00
3,700.0	2.80	249.25	3,698.6	-21.3	-56.2	60.1	0.00	0.00	0.00
3,800.0	2.80	249.25	3,798.4	-23.0	-60.7	65.0	0.00	0.00	0.00
3,900.0	2.80	249.25	3,898.3	-24.7	-65.3	69.8	0.00	0.00	0.00
4,000.0	2.80	249.25	3,998.2	-26.5	-69.9	74.7	0.00	0.00	0.00
4,100.0	2.80	249.25	4,098.1	-28.2	-74.4	79.6	0.00	0.00	0.00
4,200.0	2.80	249.25	4,198.0	-29.9	-79.0	84.5	0.00	0.00	0.00
4,300.0	2.80	249.25	4,297.8	-31.7	-83.6	89.4	0.00	0.00	0.00



Planning Report



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Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 4	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PH		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.0	2.80	249.25	4,397.7	-33.4	-88.2	94.3	0.00	0.00	0.00
4,500.0	2.80	249.25	4,497.6	-35.1	-92.7	99.1	0.00	0.00	0.00
4,600.0	2.80	249.25	4,597.5	-36.9	-97.3	104.0	0.00	0.00	0.00
4,700.0	2.80	249.25	4,697.4	-38.6	-101.9	108.9	0.00	0.00	0.00
4,800.0	2.80	249.25	4,797.2	-40.3	-106.4	113.8	0.00	0.00	0.00
4,900.0	2.80	249.25	4,897.1	-42.0	-111.0	118.7	0.00	0.00	0.00
5,000.0	2.80	249.25	4,997.0	-43.8	-115.6	123.6	0.00	0.00	0.00
5,100.0	2.80	249.25	5,096.9	-45.5	-120.1	128.4	0.00	0.00	0.00
5,200.0	2.80	249.25	5,196.8	-47.2	-124.7	133.3	0.00	0.00	0.00
5,253.3	2.80	249.25	5,250.0	-48.2	-127.1	135.9	0.00	0.00	0.00
CHERRY CANYON									
5,263.3	2.80	249.25	5,260.0	-48.3	-127.6	136.4	0.00	0.00	0.00
DELAWARE									
5,300.0	2.80	249.25	5,296.7	-49.0	-129.3	138.2	0.00	0.00	0.00
5,400.0	2.80	249.25	5,396.5	-50.7	-133.8	143.1	0.00	0.00	0.00
5,500.0	2.80	249.25	5,496.4	-52.4	-138.4	148.0	0.00	0.00	0.00
5,600.0	2.80	249.25	5,596.3	-54.2	-143.0	152.9	0.00	0.00	0.00
5,700.0	2.80	249.25	5,696.2	-55.9	-147.5	157.8	0.00	0.00	0.00
5,800.0	2.80	249.25	5,796.1	-57.6	-152.1	162.6	0.00	0.00	0.00
5,900.0	2.80	249.25	5,895.9	-59.3	-156.7	167.5	0.00	0.00	0.00
6,000.0	2.80	249.25	5,995.8	-61.1	-161.2	172.4	0.00	0.00	0.00
6,100.0	2.80	249.25	6,095.7	-62.8	-165.8	177.3	0.00	0.00	0.00
6,200.0	2.80	249.25	6,195.6	-64.5	-170.4	182.2	0.00	0.00	0.00
6,300.0	2.80	249.25	6,295.5	-66.3	-174.9	187.1	0.00	0.00	0.00
6,400.0	2.80	249.25	6,395.3	-68.0	-179.5	191.9	0.00	0.00	0.00
6,500.0	2.80	249.25	6,495.2	-69.7	-184.1	196.8	0.00	0.00	0.00
6,600.0	2.80	249.25	6,595.1	-71.5	-188.6	201.7	0.00	0.00	0.00
6,700.0	2.80	249.25	6,695.0	-73.2	-193.2	206.6	0.00	0.00	0.00
6,705.0	2.80	249.25	6,700.0	-73.3	-193.4	206.8	0.00	0.00	0.00
BRUSHY CANYON									
6,800.0	2.80	249.25	6,794.9	-74.9	-197.8	211.5	0.00	0.00	0.00
6,900.0	2.80	249.25	6,894.7	-76.6	-202.3	216.4	0.00	0.00	0.00
7,000.0	2.80	249.25	6,994.6	-78.4	-206.9	221.2	0.00	0.00	0.00
7,100.0	2.80	249.25	7,094.5	-80.1	-211.5	226.1	0.00	0.00	0.00
7,200.0	2.80	249.25	7,194.4	-81.8	-216.0	231.0	0.00	0.00	0.00
7,300.0	2.80	249.25	7,294.3	-83.6	-220.6	235.9	0.00	0.00	0.00
7,400.0	2.80	249.25	7,394.1	-85.3	-225.2	240.8	0.00	0.00	0.00
7,500.0	2.80	249.25	7,494.0	-87.0	-229.7	245.7	0.00	0.00	0.00
7,600.0	2.80	249.25	7,593.9	-88.8	-234.3	250.5	0.00	0.00	0.00
7,700.0	2.80	249.25	7,693.8	-90.5	-238.9	255.4	0.00	0.00	0.00
7,800.0	2.80	249.25	7,793.7	-92.2	-243.4	260.3	0.00	0.00	0.00
7,900.0	2.80	249.25	7,893.5	-93.9	-248.0	265.2	0.00	0.00	0.00
8,000.0	2.80	249.25	7,993.4	-95.7	-252.6	270.1	0.00	0.00	0.00
8,100.0	2.80	249.25	8,093.3	-97.4	-257.1	275.0	0.00	0.00	0.00
8,200.0	2.80	249.25	8,193.2	-99.1	-261.7	279.9	0.00	0.00	0.00
8,300.0	2.80	249.25	8,293.1	-100.9	-266.3	284.7	0.00	0.00	0.00
8,328.0	2.80	249.25	8,321.0	-101.3	-267.6	286.1	0.00	0.00	0.00
Top of BSG									
8,400.0	2.80	249.25	8,393.0	-102.6	-270.8	289.6	0.00	0.00	0.00
8,500.0	2.80	249.25	8,492.8	-104.3	-275.4	294.5	0.00	0.00	0.00
8,600.0	2.80	249.25	8,592.7	-106.1	-280.0	299.4	0.00	0.00	0.00
8,700.0	2.80	249.25	8,692.6	-107.8	-284.5	304.3	0.00	0.00	0.00
8,800.0	2.80	249.25	8,792.5	-109.5	-289.1	309.2	0.00	0.00	0.00



Planning Report



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Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 4	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PH		
Design:	Plan 0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,900.0	2.80	249.25	8,892.4	-111.2	-293.7	314.0	0.00	0.00	0.00	
9,000.0	2.80	249.25	8,992.2	-113.0	-298.2	318.9	0.00	0.00	0.00	
9,100.0	2.80	249.25	9,092.1	-114.7	-302.8	323.8	0.00	0.00	0.00	
9,200.0	2.80	249.25	9,192.0	-116.4	-307.4	328.7	0.00	0.00	0.00	
9,300.0	2.80	249.25	9,291.9	-118.2	-311.9	333.6	0.00	0.00	0.00	
9,400.0	2.80	249.25	9,391.8	-119.9	-316.5	338.5	0.00	0.00	0.00	
9,403.2	2.80	249.25	9,395.0	-119.9	-316.7	338.6	0.00	0.00	0.00	
Top of FBSG SD										
9,500.0	2.80	249.25	9,491.6	-121.6	-321.1	343.3	0.00	0.00	0.00	
9,600.0	2.80	249.25	9,591.5	-123.4	-325.6	348.2	0.00	0.00	0.00	
9,685.6	2.80	249.25	9,677.0	-124.8	-329.6	352.4	0.00	0.00	0.00	
Top of SBSG Shale										
9,700.0	2.80	249.25	9,691.4	-125.1	-330.2	353.1	0.00	0.00	0.00	
9,800.0	2.80	249.25	9,791.3	-126.8	-334.8	358.0	0.00	0.00	0.00	
9,900.0	2.80	249.25	9,891.2	-128.5	-339.4	362.9	0.00	0.00	0.00	
9,917.9	2.80	249.25	9,909.0	-128.9	-340.2	363.8	0.00	0.00	0.00	
Top of SBSG SD										
10,000.0	2.80	249.25	9,991.0	-130.3	-343.9	367.8	0.00	0.00	0.00	
10,100.0	2.80	249.25	10,090.9	-132.0	-348.5	372.6	0.00	0.00	0.00	
10,200.0	2.80	249.25	10,190.8	-133.7	-353.1	377.5	0.00	0.00	0.00	
10,300.0	2.80	249.25	10,290.7	-135.5	-357.6	382.4	0.00	0.00	0.00	
10,400.0	2.80	249.25	10,390.6	-137.2	-362.2	387.3	0.00	0.00	0.00	
10,445.5	2.80	249.25	10,436.0	-138.0	-364.3	389.5	0.00	0.00	0.00	
Top of TBSG Carb										
10,500.0	2.80	249.25	10,490.4	-138.9	-366.8	392.2	0.00	0.00	0.00	
10,600.0	2.80	249.25	10,590.3	-140.7	-371.3	397.1	0.00	0.00	0.00	
10,700.0	2.80	249.25	10,690.2	-142.4	-375.9	402.0	0.00	0.00	0.00	
10,800.0	2.80	249.25	10,790.1	-144.1	-380.5	406.8	0.00	0.00	0.00	
10,804.9	2.80	249.25	10,795.0	-144.2	-380.7	407.1	0.00	0.00	0.00	
Top of TBSG SD										
10,900.0	2.80	249.25	10,890.0	-145.8	-385.0	411.7	0.00	0.00	0.00	
11,000.0	2.80	249.25	10,989.8	-147.6	-389.6	416.6	0.00	0.00	0.00	
11,070.3	2.80	249.25	11,060.1	-148.8	-392.8	420.0	0.00	0.00	0.00	
Start Drop -2.00										
11,081.2	2.58	249.25	11,071.0	-149.0	-393.3	420.6	2.00	-2.00	0.00	
Top WFMP										
11,100.0	2.21	249.25	11,089.7	-149.2	-394.0	421.3	2.00	-2.00	0.00	
11,200.0	0.21	249.25	11,189.7	-150.0	-396.0	423.4	2.00	-2.00	0.00	
11,210.3	0.00	0.00	11,200.0	-150.0	-396.0	423.5	2.00	-2.00	0.00	
Start 1650.0 hold at 11210.3 MD										
11,300.0	0.00	0.00	11,289.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,389.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,489.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,589.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,689.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,789.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
11,810.3	0.00	0.00	11,800.0	-150.0	-396.0	423.5	0.00	0.00	0.00	
Sandra Jean 755 FTP - Sandra Jean 755H LTP/BHL										
11,900.0	0.00	0.00	11,889.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,989.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
12,100.0	0.00	0.00	12,089.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
12,200.0	0.00	0.00	12,189.7	-150.0	-396.0	423.5	0.00	0.00	0.00	
12,300.0	0.00	0.00	12,289.7	-150.0	-396.0	423.5	0.00	0.00	0.00	



Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 755H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3657.5usft (3657.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3657.5usft (3657.5)
Site:	Sandra Jean 23 Fed Com Pad 4	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PH		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,400.0	0.00	0.00	12,389.7	-150.0	-396.0	423.5	0.00	0.00	0.00
12,500.0	0.00	0.00	12,489.7	-150.0	-396.0	423.5	0.00	0.00	0.00
12,600.0	0.00	0.00	12,589.7	-150.0	-396.0	423.5	0.00	0.00	0.00
12,700.0	0.00	0.00	12,689.7	-150.0	-396.0	423.5	0.00	0.00	0.00
12,800.0	0.00	0.00	12,789.7	-150.0	-396.0	423.5	0.00	0.00	0.00
12,860.3	0.00	0.00	12,850.0	-150.0	-396.0	423.5	0.00	0.00	0.00
TD at 12860.3									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Sandra Jean 755 FTP	0.00	0.00	11,800.0	-102.5	-394.3	565,119.08	754,986.35	32.5516569°N	103.6399404°W
- plan misses target center by 47.6usft at 11810.3usft MD (11800.0 TVD, -150.0 N, -396.0 E)									
- Point									
Sandra Jean 755H LTP/I	0.00	0.00	11,800.0	4,981.9	-429.1	570,203.45	754,951.51	32.5656322°N	103.6399460°W
- plan misses target center by 5132.0usft at 11810.3usft MD (11800.0 TVD, -150.0 N, -396.0 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,428.0	1,428.0	RUSTLER				
3,200.8	3,200.0	YATES				
3,594.3	3,593.0	CAPITAN REEF				
5,253.3	5,250.0	CHERRY CANYON				
5,263.3	5,260.0	DELAWARE				
6,705.0	6,700.0	BRUSHY CANYON				
8,328.0	8,321.0	Top of BSG				
9,403.2	9,395.0	Top of FBSG SD				
9,685.6	9,677.0	Top of SBSG Shale				
9,917.9	9,909.0	Top of SBSG SD				
10,445.5	10,436.0	Top of TBSG Carb				
10,804.9	10,795.0	Top of TBSG SD				
11,081.2	11,071.0	Top WFMP				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,400.0	2,400.0	0.0	0.0	KOP - Start Build 2.00
2,540.0	2,539.9	-1.2	-3.2	Start 8530.3 hold at 2540.0 MD
11,070.3	11,060.1	-148.8	-392.8	Start Drop -2.00
11,210.3	11,200.0	-150.0	-396.0	Start 1650.0 hold at 11210.3 MD
12,860.3	12,850.0	-150.0	-396.0	TD at 12860.3



Avant Operating, LLC

Lea Co., NM (NAD 83)

Sandra Jean 23 Fed Com Pad 4

Sandra Jean 23 Fed Com 755H

PH

Plan 0.1

Anticollision Summary Report

05 March, 2024





Anticollision Summary Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 755H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	WELL @ 3657.5usft (3657.5)
Reference Site:	Sandra Jean 23 Fed Com Pad 4	MD Reference:	WELL @ 3657.5usft (3657.5)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	PH	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference	Plan 0.1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/5/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	12,860.3	Plan 0.1 (PH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sandra Jean 23 Fed Com Pad 2						
Sandra Jean 23 Fed Com 203H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 204H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 303H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 402H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 403H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 503H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 603H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 652H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 653H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 752H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 753H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 802H - OH - Plan 0.1						Out of range
Sandra Jean 23 Fed Com 803H - OH - Plan 0.1						Out of range
South Teas Federal 001 - OH - OH						Out of range
Sandra Jean 23 Fed Com Pad 4						
Sandra Jean 23 Fed Com 506H - OH - Plan 0.1	2,000.0	2,000.0	40.0	26.1	2.880	CC, ES
Sandra Jean 23 Fed Com 506H - OH - Plan 0.1	2,100.0	2,098.6	41.7	27.1	2.859	SF
Sandra Jean 23 Fed Com 606H - OH - Plan 0.1	2,000.0	2,000.0	60.1	46.2	4.327	CC, ES
Sandra Jean 23 Fed Com 606H - OH - Plan 0.1	2,100.0	2,097.9	61.8	47.2	4.238	SF
Sandra Jean 23 Fed Com 655H - OH - Plan 0.1	2,639.6	2,638.8	15.6	-2.8	0.848	Level 1, CC, ES, SF
Sandra Jean 23 Fed Com 755H - ST01 - Plan 0.1	11,400.0	11,399.6	4.7	-75.8	0.058	Level 1, CC, ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Summary Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 755H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	WELL @ 3657.5usft (3657.5)
Reference Site:	Sandra Jean 23 Fed Com Pad 4	MD Reference:	WELL @ 3657.5usft (3657.5)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	PH	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3657.5usft (3657.5)

Offset Depths are relative to Offset Datum

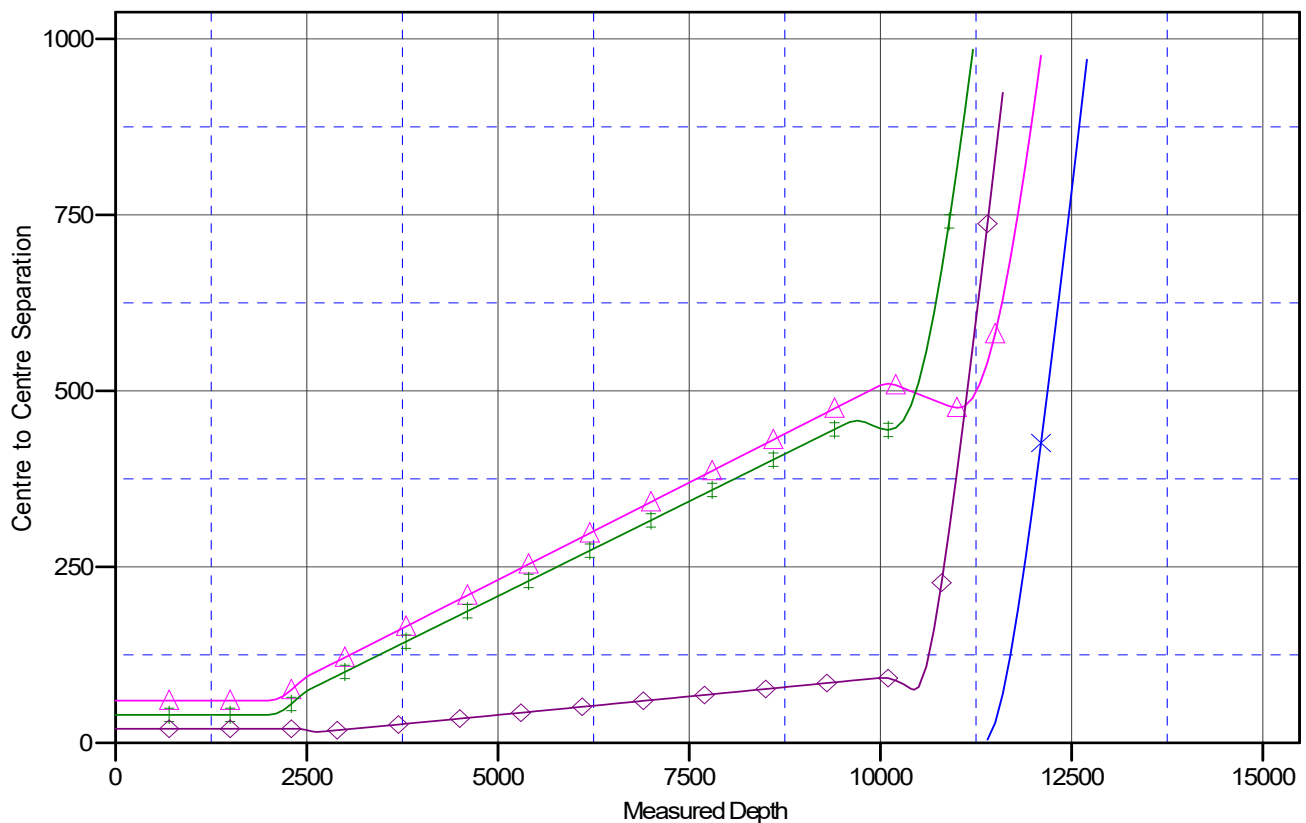
Central Meridian is 104.333333°W

Coordinates are relative to: Sandra Jean 23 Fed Com 755H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°

Ladder Plot



LEGEND



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Summary Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 755H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	WELL @ 3657.5usft (3657.5)
Reference Site:	Sandra Jean 23 Fed Com Pad 4	MD Reference:	WELL @ 3657.5usft (3657.5)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Sandra Jean 23 Fed Com 755H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	PH	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3657.5usft (3657.5)

Offset Depths are relative to Offset Datum

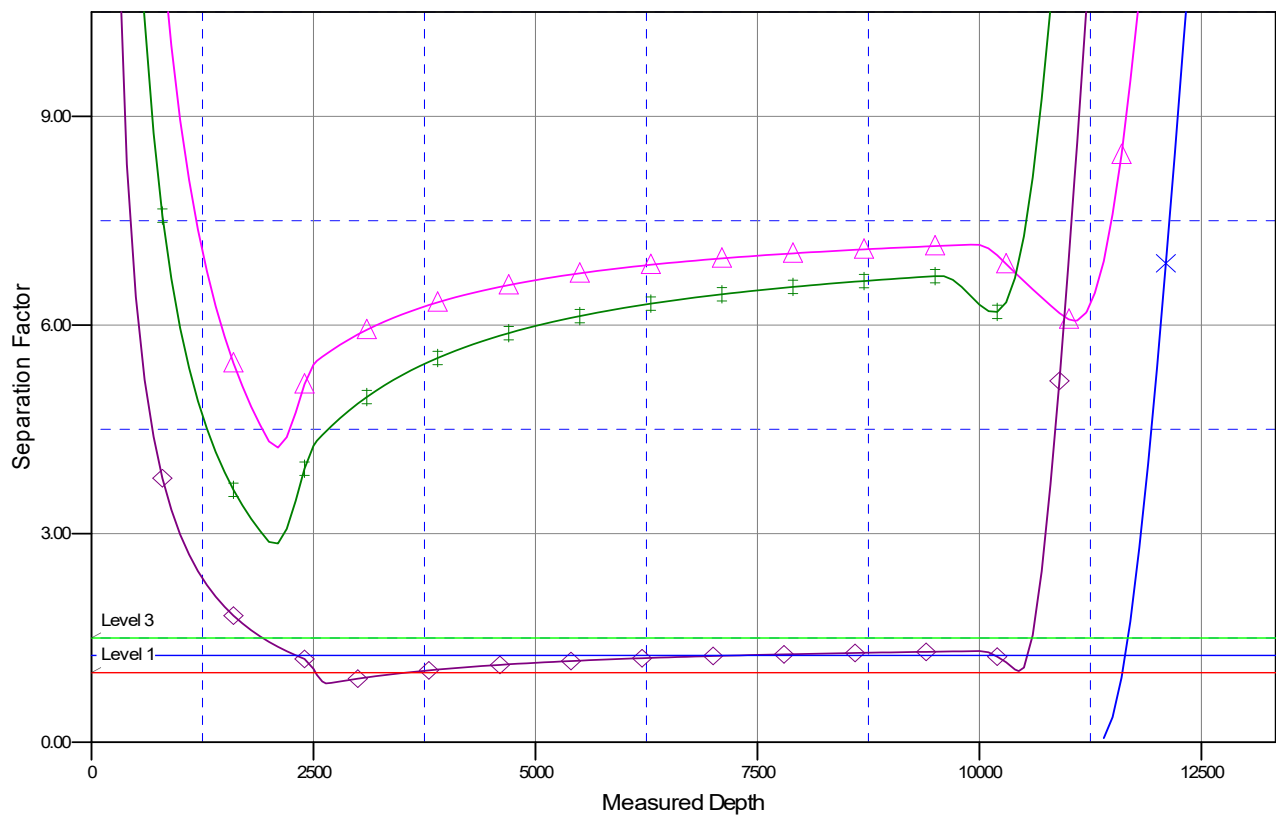
Central Meridian is 104.333333°W

Coordinates are relative to: Sandra Jean 23 Fed Com 755H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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 331876

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 331876
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	4/11/2024