

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised July 18, 2013

Oil Conservation Division

☐ AMENDED REPORT

Online Phone Directory Visit:

<https://www.emnrd.nm.gov/ocd/contact-us/>

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address LEA MIDSTREAM, LLC 3500 MAPLE AVE, STE 700; DALLAS, TX 75219		² OGRID Number 333151
		³ API Number 30-025-55346
⁴ Property Code P	⁵ Property Name WHITE RUSSIAN AGI	⁶ Well No. 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	17	19S	35E		1607	SOUTH	1991	WEST	LEA

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	17	19S	35E		2338	NORTH	188	WEST	LEA

⁹ Pool Information

¹⁰ Pool Name AGI, DEVONIAN-FUSSELMAN	¹¹ Pool Code 97834
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Additional Well Information

¹² Work Type N	¹³ Well Type I	¹⁴ Cable/Rotary R	¹⁵ Lease Type P	¹⁶ Ground Level Elevation 3843 FT
¹⁷ Multiple	¹⁸ Proposed Depth 16,049 ft.	¹⁹ Formation FUSSELMAN	²⁰ Contractor	²¹ Spud Date 11/01/2025
Depth to Ground water 30 ft.		Distance from nearest fresh water well 0.61 miles		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits²² Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURF	26"	24"	186.4	1865	1464	Surface
1ST INT.	22"	20"	169	3290	1185	Surface
2ND INT.	17.5"	13.625"	88.2	6285	2005	Surface
3RD INT.	12.25"	9.625"	53.5	10712	1885	Surface
PROD.	8.625"	7"	32	14710	1035 sks, 15 bbls resin	Surface

Casing/Cement Program: Additional Comments

Production casing utilizes corrosion-resistant casing and acid resistant resin and cement slurries. See attached schematic for complete details.

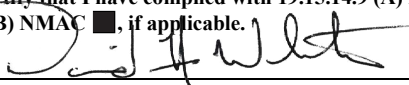
²³ Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
ANNULAR	5000	4500	
DOUBLE RAM	10000	9500	

²⁴ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:



Printed name: David A. White, P.G.

Title: Vice President - Consultant to Lea Midstream

E-mail Address: dwhite@geolex.com

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled
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WELL LOCATION INFORMATION

API Number 30-025-55346	Pool Code 97834	Pool Name AGI, DEVONIAN-FUSSELMAN
Property Code P 337834	Property Name WHITE RUSSIAN AGI	Well Number 1
OGRID No. 333151	Operator Name LEA MIDSTREAM, LLC	Ground Level Elevation 3843 ft.
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL K	Section 17	Township 19S	Range 35E	Lot	Ft. from N/S 1593'/FSL	Ft. from E/W 1989'/FWL	Latitude 32.657656	Longitude -103.481600	County LEA
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Bottom Hole Location

UL E	Section 17	Township 19S	Range 35E	Lot	Ft. from N/S 2345'/FNL	Ft. from E/W 187'/FWL	Latitude 32.661345	Longitude -103.487457	County LEA
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Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

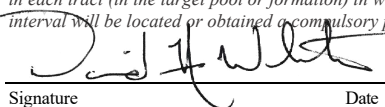
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

 08/20/2025

Signature Date

David A. White, P.G.

Printed Name

dwhite@geolex.com

Email Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor

23001

Certificate Number

08/18/2025

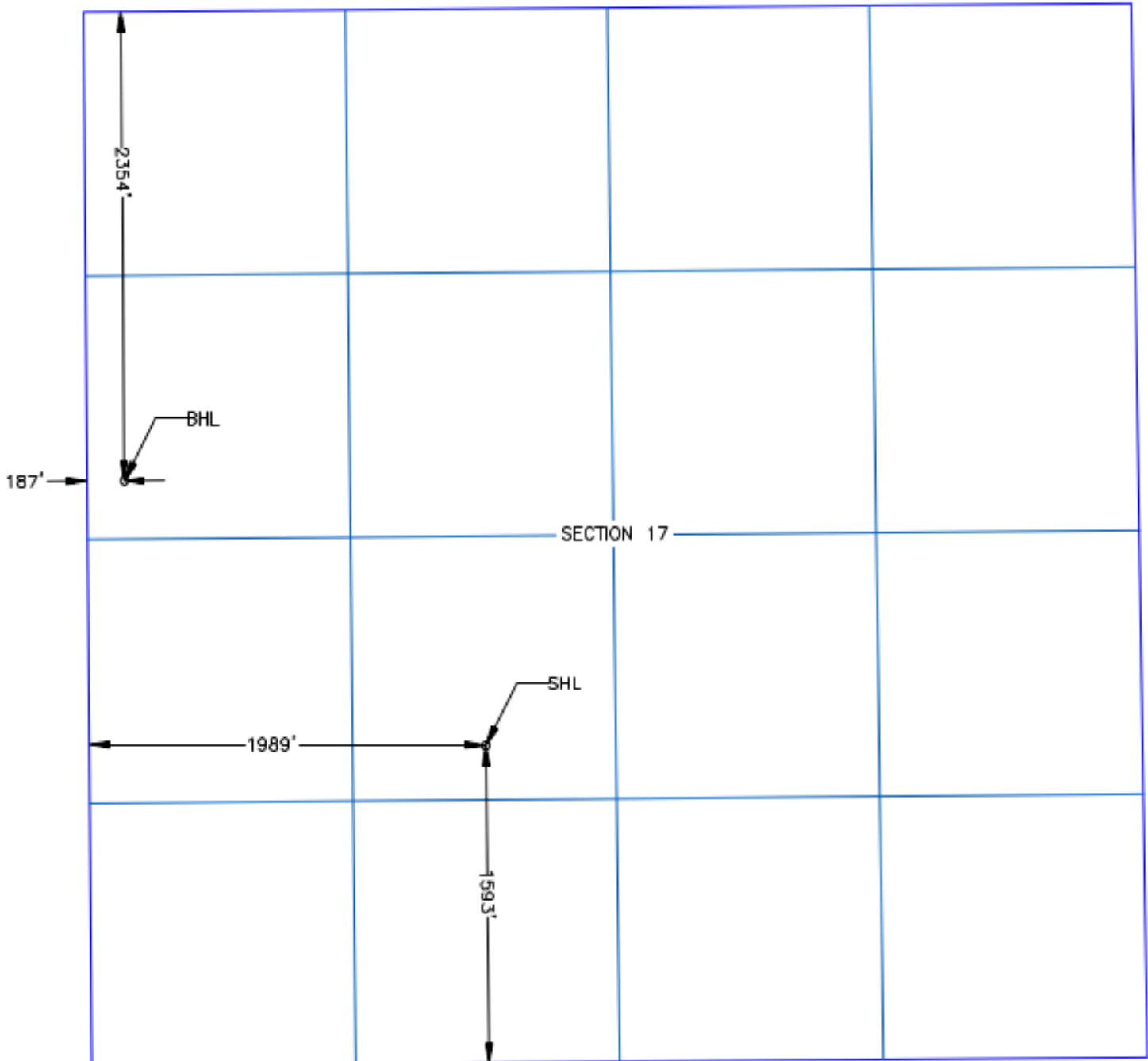
Date of Survey



Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



SHL
FSL 1593' FWL 1989', SECTION 17
NAD 83 SPCS NM EAST
X:803466.79' / Y:604037.66'
LAT: 32.657656 / -103.481600
NAD 27 SPCS NM EAST
X:762286.417' / Y:603974.084'
LAT: 32.657532 / -103.481109

BHL
FNL 2354' FWL 187', SECTION 17
NAD 83 SPCS NM EAST
X:801653.49' / Y:605365.39'
LAT: 32.661345 / -103.487457
NAD 27 SPCS NM EAST
X:760743.19' / Y:605301.73'
LAT: 32.661222 / -103.486965

ATTACHMENT A

PROPOSED WELL BORE DIAGRAM

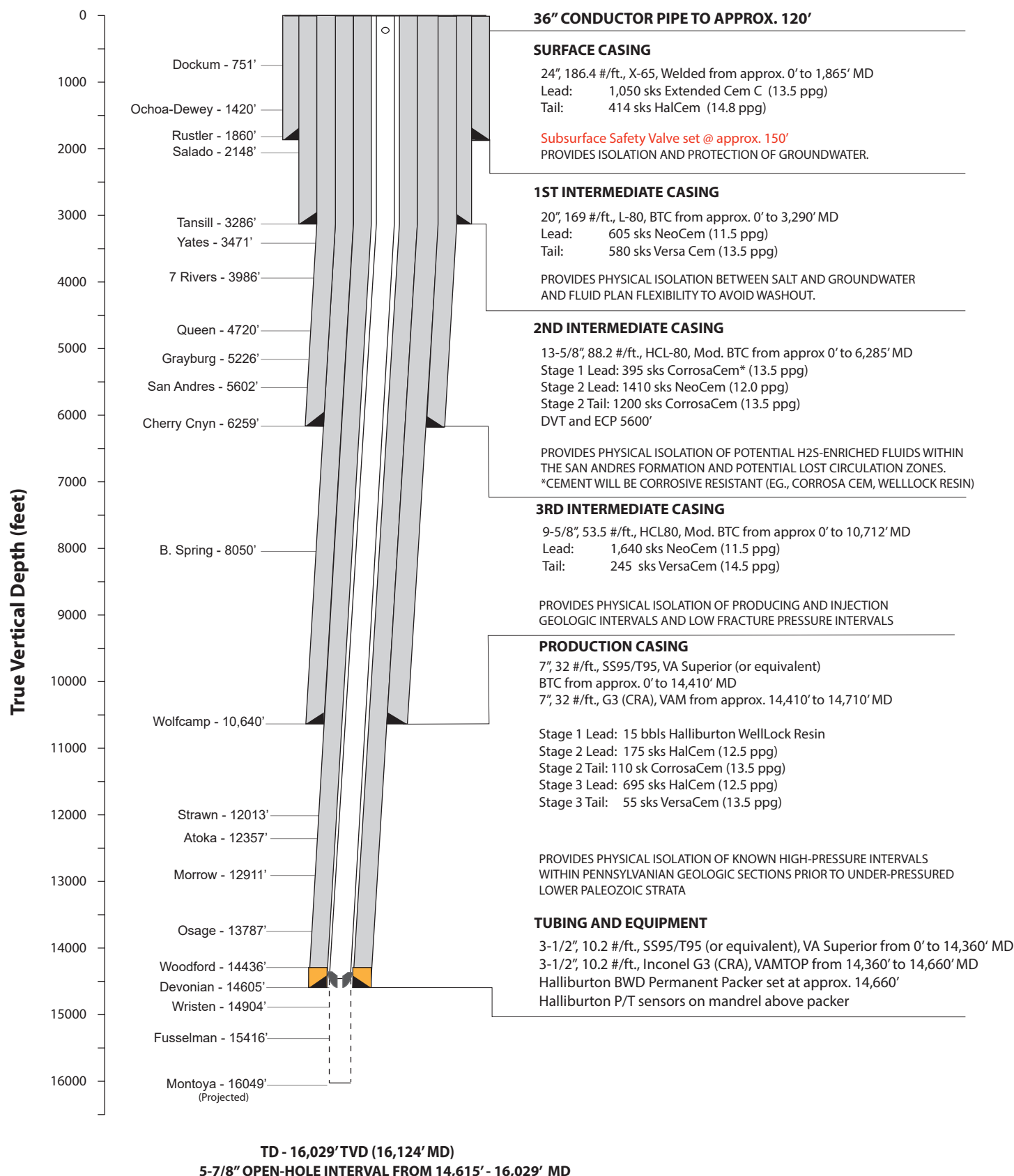
White Russian AGI #1



White Russian AGI #1

Lea Midstream -- S17, T19S, R3E

GEOLEX
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All depths are approximate and subject to change based on drilling and geology encountered

Revision 08/20/2025

ATTACHMENT B

EXAMPLE DRILLING PROGRAM

White Russian AGI #1

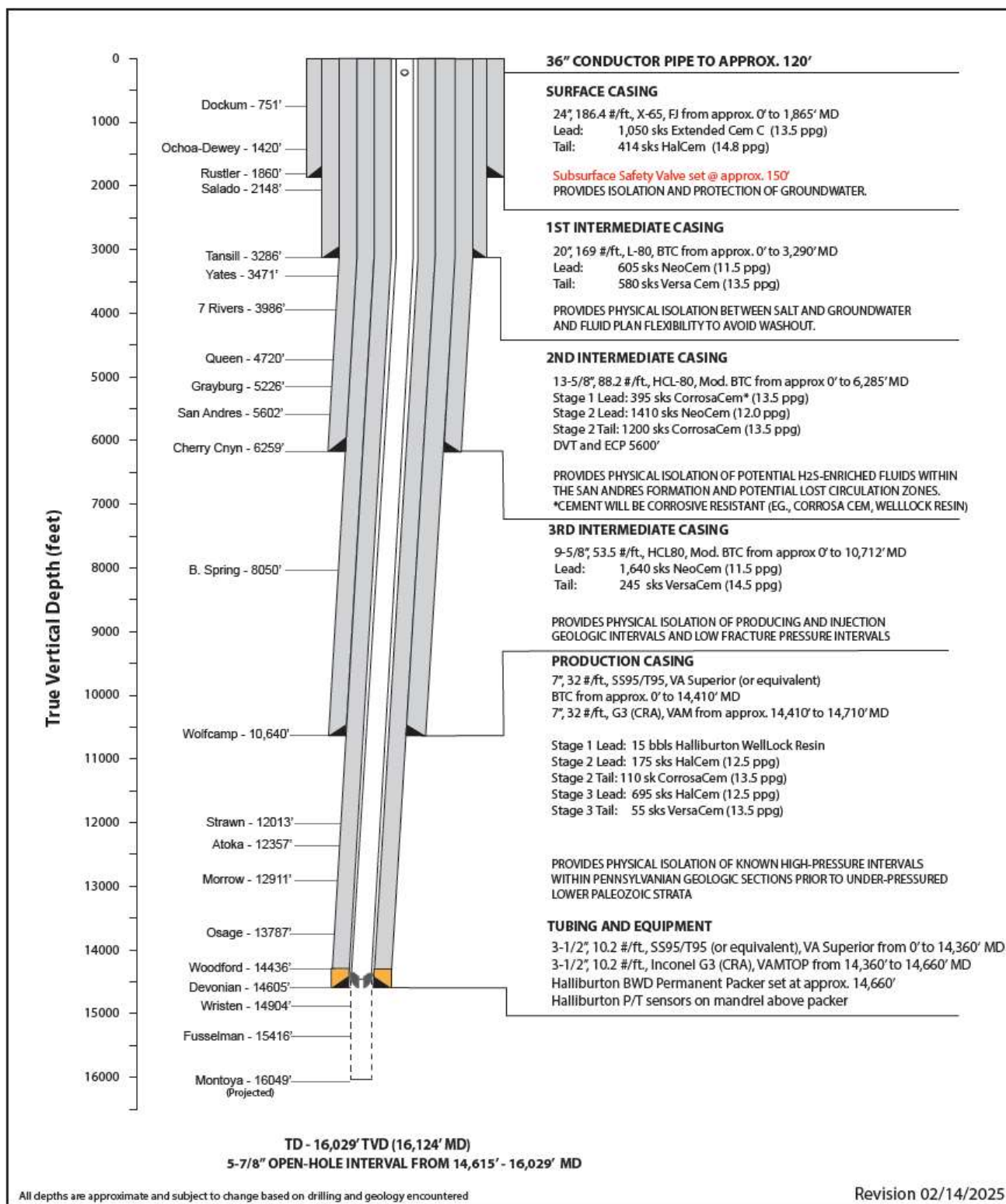
Drilling Program
Permian Oilfield Partners LLC
Lea Midstream LLC – White Russian AGI #1

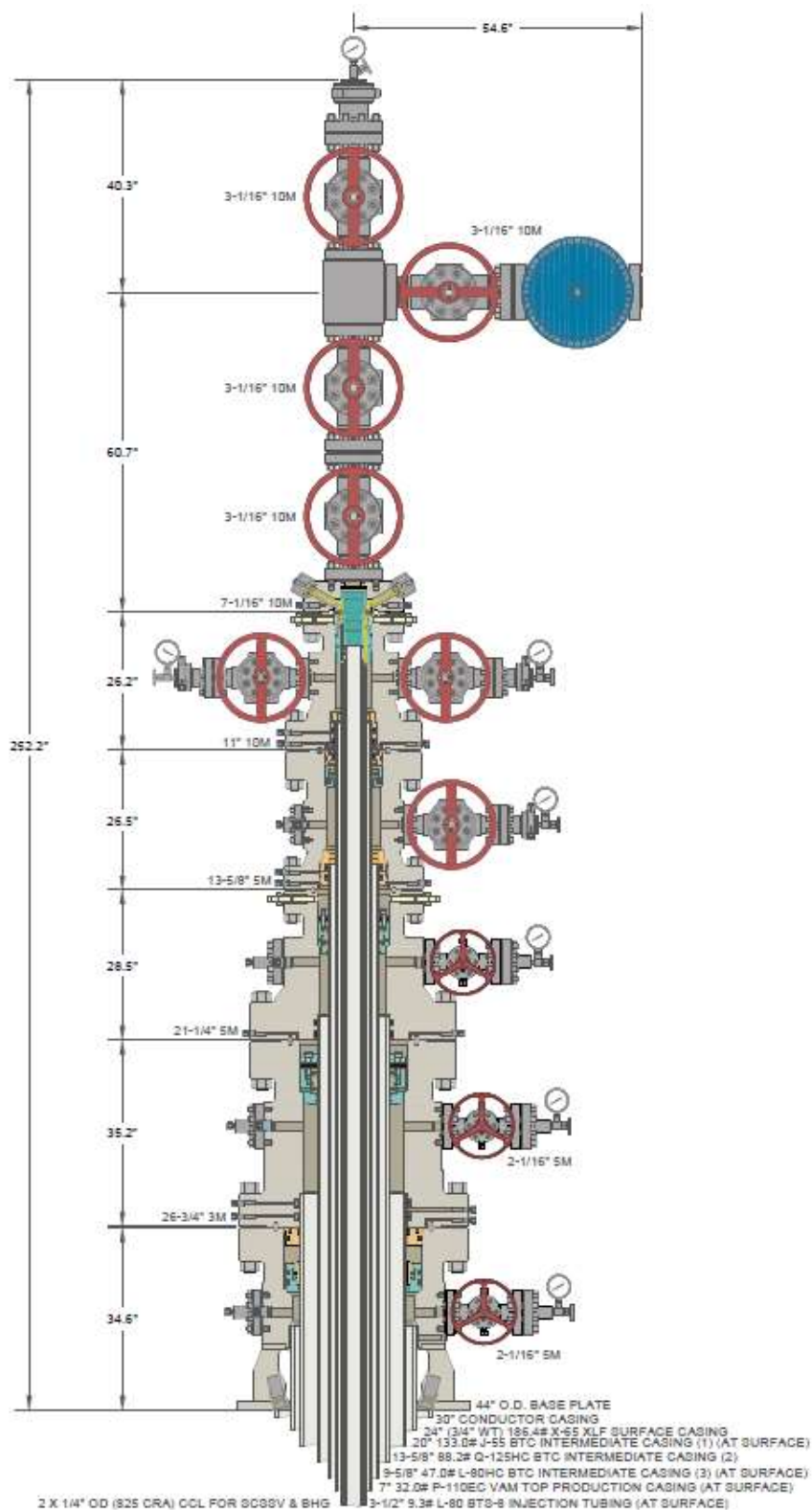
API # TBD
NMOCD UIC Order #TBD
Field: AGI; Devonian-Fusselman
Sec. 17, Twp. 19S, Rge 35E
Lea County, NM
SHL: Lat 32.657656, Lon -103.481600
BHL: Lat 32.661345, Lon -103.487457
GL 3846' KB 3876'



White Russian AGI #1
Lea Midstream -- S17, T19S, R3E

GEOLEX
INCORPORATED





VAULT PRESSURE CONTROL	Pressure Control	
	30" X 24" X 20" X 13-5/8" X 9-5/8" X 7" X 3-1/2" 10M CONVENTIONAL WELLHEAD ASSEMBLY, T-EBS-F TUBING HEAD, T-M40-CCL TUBING HANGER AND ADAPTER FLANGE, AND 3-1/16" 10M DRY ACID GAS INJECTION TREE	
	Copyright 2020 Vault Pressure Control, LLC. All rights reserved. This document is the property of Vault Pressure Control and its affiliates. It is to be used only for the purpose of Vault Pressure Control and may not be distributed, reprinted, or used for any purpose without the written consent of Vault Pressure Control.	
	ALL DIMENSIONS ARE APPROXIMATE, NOT FOR FABRICATION PURPOSES	
DESIGNED BY: APPROVED BY:	DRAWN BY: JPB REVIEWED BY: APPROVED BY:	DRAWING NO.: 11002889 Rev.: B DATE: 2/28/2024

Geologic Tops:

Table 4. Anticipated formation tops at the proposed White Russian AGI #1 location

Formation	Depth (MD)	Formation	Depth (MD)
Dockum Group	751	Wolfcamp	10,693
Ochoa-Dewey Lake	1,420	Strawn	12,086
Rustler	1,860	Atoka	12,433
Salado	2,148	Morrow	12,992
Tansill	3,286		
Yates	3,471	Barnett	13,747
Seven Rivers	3,986	Osage (Miss Lime)	13,875
Grayburg	5,242	Woodford	14,529
San Andres	5,621	Devonian	14,700
Cherry Canyon	6,284	Wristen	14,999
Bone Spring	8,090	Fusselman	15,511

Data Distribution:

Name	Email	Daily Drilling Report	Daily Mud Report	Daily Directional Report	Daily Mud Log	Final Reports	Wireline Logs	Sundry Notices
		X	X	X	X	X	X	X
		X	X	X	X	X	X	X
		X	X	X	X	X	X	X
		X	X	X	X	X	X	X
		X			X	X	X	X

Driving Directions

West of Hobbs, NM. From Intersection of Hwy 62/180 and NW County Road go West 17.8 miles on Hwy 62/180 to gas plant entrance on right. Turn N (right) for 0.2 miles to rig. Check in with gate guard and proceed to location. **Speed limited to 5 mph on plant property.**

NOTE: FOLLOW THESE INSTRUCTIONS! DO NOT LEAVE DESIGNATED ROADS!

SPEED LIMIT ON LEASE ROADS IS 20 MPH!

SPEED LIMIT ON GAS PLANT PROPERTY IS 5 MPH!

EVERYONE MUST CHECK IN WITH GATE GUARD UPON ARRIVAL AND CHECK OUT UPON LEAVING. NON-COMPLIANCE WILL NOT BE TOLERATED.

Vendors:

Vendor	Contact	Phone 1	Phone 2	Item
TBD				Acid
				Bits
				Bits
				Bits
				Casing
				Casing clean/drift/tally
				Casing Crews
				Cement/Liner Hanger
				Chokes
				Conductor & Containment
				Core Pickup & Analysis
				Data

				Directional
				Directional (MWD)
				DC Inspection
				DP Inspection
				Float Equipment
				Float Equipment
				Forklift/Manlift
				Frac Tanks
				Fuel
				H2S Monitors
				Hotshots-Hobbs
				Hotshots-Midland
				Housing
				Internet & Radios
				Landfill
				Rig
				Location Prep/Cleanup
				Motors
				Mud
				Mud Logger
				NU/ND/Testing
				Packer Fluid
				Packer/Test Packer
				Pit Clean
				Rental Pipe
				Rental Tools
				Rig Mob/Demob
				Rotating Head & MPD
				Screens
				Separator/Flare
				Active Flare
				LNG & tank
				Solids Control
				Thread Reps
				Toilets & Trash
				Transfer Pump
				Vac Trucks
				Vac Trucks
				Vac Trucks
				Welder

				Wellhead
				Wireline-OH & Bond Logs
				Wireline-Packer

Location Preparation

Pad Construction: 400' x 400' pad as per plat.

Road & Signage Install T-post fence along road into location to prevent entry to existing gas plant. Ensure road is wide enough to allow truck traffic to pass in opposite directions, and that corners are large enough to allow semi-truck traffic to negotiate corner (approx. 30' wide road, and angled on inside of corners). Install signage to direct traffic. Install well and location signage as per regulations.

Fluid Storage: Install 100' x 100' liner w/ berms in NW corner of location as per location diagram. Move in 10 fluid storage frac tanks on top of liner, manifold to East. Manifold tanks together into 2 groups of 5 tanks each. Fill assembled manifolds with fresh water to check for leaks.

Cellar & Conductor: 12' dia x 14' Deep tinhorn cellar. Drill & set 30" conductor @ 120' (or until hit redbed).

Conductor Hole size: 42"

Depth: 120'

Mud: Fresh water native mud.

Casing: From 0' to 120' – (30" CSG)
Run 30" casing with open shoe.

Cement: Class A Ready Mix

Fill annulus down backside from TD to surface. Cut off casing 6" above cellar floor. Leave remnant on location for use as drilling riser.

Wellhead: Weld on **Capping Plate**

Fencing: Install temporary fencing around cellar adequate to keep livestock out

MIRU Drilling Rig

- Drilling Rig:** MIRU TBD drilling rig. Confirm receipt of DP/DC/XO inspection reports to DS-1 Cat 4 standard. Confirm all DP S-135 grade. Confirm starting DP & DC count.
- Housing:** MIRU housing, sewer and water for company man, directional, mud & solids control personnel, and mud lab. MIRU mud logger trailer.
- Fluids & Transfer:** Install 100' x 100' liner w/ berms in NE corner of location as per location diagram. Move in 10 fluid storage frac tanks on top of liner, manifold to East. Manifold tanks together into 2 groups of 5 tanks each. Tanks 1-5 standard. Tanks 6-10 round bottom w/ OBM circ system. Fill assembled manifolds with fresh water to check for leaks.
- Solids Control:** MIRU solids control equipment & cuttings bins.
- Mud:** MIRU barite bins (this can be delayed until the start of the 12 ¼" hole section, but leave room for MIRU when needed). Deliver fresh mud products to location as per mud program.

Surface Hole**Hole size:** 17 ½", then ream to 27 ¼"**Depth:** 1865'

Mud: Refer to attached mud program. Fresh water native spud mud. Viscosity not to exceed 40 sec/qt. Mud weight not to exceed 9.4 ppg. Keep mud hydrated and cut with fresh water. Dump and dilute as necessary to maintain the above mud parameters to avoid red bed mud rings.

BHA #1:

1	17 ½" Bit
1	8" Bit Sub
1	25 ¾" IB Spiral Stabilizer
3	8" DC
1	XO

BHA #2:

1	17 ½" Bit
1	8" Bit Sub
1	17 ½" Vertical Scout
1	8" x 9 5/8" Combo Motor
1	8" Shock sub
1	8" Directional survey tool
1	17 ½" IB Spiral Stabilizer
9	8" DC
1	XO
21	6 ½" DC
1	XO

BHA #3:

1	17 ½" Bit
1	8" Bit Sub
1	27 ¼" Reamer
1	8" DC
1	8" Shock sub
1	8" Directional survey tool
1	25 ¾" IB Spiral Stabilizer
8	8" DC
1	XO
21	6 ½" DC
1	XO

BHA #4:

1	26" Roller Cone Bit
1	8" Bit Sub
1	27 ¼" Reamer
1	25 ¾" IB Spiral Stabilizer
9	8" DC
1	XO
21	6 ½" DC
1	XO

Shaker Screens:

80's

Tubulars:

Item type	Casing	Drill Pipe
Size	24"	5"
Weight (#/ft)	186.4	19.5
Grade	X-65	S-135
Thread	XLF	4 1/2 IF
ID (in)	22.500	4.276 (2.750 conn)
Burst (psi)	3250	17105
Collapse (psi)	1049	15672
Tension (klbs)	1709	712
Min MU Torque (ft-lb)	30,600	
Rec. Torque (ft-lb)		38044
Max MU Torque (ft-lb)	108,000	

Drilling: Weld 30" drilling conductor with flow nipple onto the 30" conductor pipe at surface. **Notify NMOCD prior to spudding well and in sufficient time to witness cementing of surface casing. Ensure mudloggers MIRU and ready to log from surface.** Run 17 ½" bit w/ **BHA #1**. Drill 7' pilot hole. LD BHA #1. Run 17 ½" bit w/ **BHA #2** w/ Vertical Scout, directional survey tool and 5" DP to casing point. **Deviation not to exceed 3°. DLS not to exceed 2°.** Seepage should be controllable with LCM sweeps. After cutting 100' of new hole, slowly increase pump rate to max allowable for rig & downhole tools. Wipe every connection prior to shutting pumps off. Upon reaching TD, Pump heavy LCM sweep and circulate hole clean. TOOH. Run 27 ¼" reamer w/ **BHA #3** w/ survey tool and 5" DP to casing point. Ensure enough rathole for 24" casing to land at floor. Seepage should be controllable with LCM sweeps. After cutting 100' of new hole, slowly increase pump rate to max allowable for rig & downhole tools. Wipe every connection prior to shutting pumps off. Upon reaching TD, Pump heavy LCM sweep and circulate hole clean. TOOH. PU **BHA #4** and make reamer run to casing point (**wash & ream from base of conductor to TD**). Wipe every connection prior to shutting pumps off. Upon reaching TD, Pump heavy LCM sweep and circulate hole clean. Drop drillpipe drift w/ 120' wire attached. TOOH to run casing.

Casing: **Ensure 24" casing has been cleaned, drifted and tallied prior to running.** From 0' to 1865' – (24" 186.4# X-65 XLF CSG) **Confirm FC/FS welded by NOV prior to pipe delivery.**

Fill casing with drilling fluid as needed. RU 50 T Crane (if catwalk can't lift 24"), casing crew & run 24" float shoe, 1 jt 24" 186.4# X-65 XLF casing, float collar w/ **SIA** welded prior to arriving on location. Run remainder of 24" 186.4# X-65 XLF casing to surface. Centralizers to go in the middle of the first joint, on the second coupling and the fourth coupling. Float equipment should be PDC drillable. After getting casing to TD, install circulating swage & circulate bottoms up while RU API Bowl and false table. TIH w/ 5" DP and sting in cement adaptor. **Ensure bow spring centralizer installed on first DP tool joint above sting in cement adaptor. DO NOT RUN DRILL COLLARS. Ensure additional DP picked up is drifted prior to going in the hole.** Sting into float collar. Use 5" pup jts to space out, RU Halliburton DP cement head and chain down to casing to prevent unstinging from 24" float collar. Prior to pumping cement, confirm stung in properly by verifying returns are taken up 24" casing annulus. **Circulate bottoms up with rig prior to cementing.**

Cement: Lead: 1050 sks ExtendaCem + Additives @ 13.5 ppg

Tail: 414 sks HalCem + Additives @ 14.8 ppg

Notify NMOCD in sufficient time to witness cementing of casing. After getting casing to TD, TIH w/ 5" DP and sting in cement adaptor. **Ensure bow spring centralizer installed on first DP tool joint above sting in cement adaptor. DO**

NOT RUN DRILL COLLARS. Ensure additional DP picked up is drifted prior to going in the hole. Sting into float collar & circulate bottoms up with rig while RU cementers. **Prior to pumping cement, confirm stung in properly by verifying returns are taken up 24" casing annulus.** Cement as prescribed in attached Halliburton cement recommendation. Have intermediate tail cement on location to ensure cement to surface prior to displacing the inner string. **DO NOT GO INTO DISPLACEMENT UNTIL CEMENT IS CIRCULATED TO SURFACE ON 24" CASING ANNULUS.** Use foam wiper balls to chase cement wiper plug. If cement **does not** circulate, notify POP supervisor for next steps. **If cement does circulate, displace inner string with system fluid and ensure casing floats are holding prior to stinging out of float collar.** Sting out of float collar with inner string & circulate out cement using **brine water** at maximum pump rate (reciprocate inner string while displacing if possible). Circulate full 24" casing volume plus inner string volume to balance the string. Once cement is circulated out of inner string and the inside of the 24" casing, shut down and monitor for fluid movement within the 24" casing. If fluid inside casing is static, TOH w/ DP. If fluid inside casing is not static, notify POP supervisor for next steps. WOC 24 hours (subject to change based on cement lab report). While WOC & running wireline, clean all pits and **store drilling fluid for future use.** Run Baker Hughes SBT cement bond log to verify sufficient cement placement. When sufficient bond confirmed, screw in testing swedge and pressure test casing to 1500 psi for 30 min, chart this test on Pason. **Cut off conductor @ proper depth to ensure starting head base plate is 151" below GL & weld on 24" wellhead** (ensure 26 3/4" 3M flange face at 116" below GL). **Orientation to be confirmed:** Valve handles to East so that Manumatic will point North. NU 24" conductor w/ 24" diverter head (**confirm diverter head sized with sufficient pass through for 22" bit prior to installing**).

Wellhead:	26 3/4" 3M rated conventional weld on type wellhead
BOPE:	26 3/4" 3M rated weld on flange, conductor & rotating head/diverter.
BOPE Testing:	None

First Intermediate Hole**Hole size:** 22"**Depth:** 3290'**Mud:** Refer to attached mud program. Saturated Brine with 29 to 31 visc. (Mud weight not to exceed 10.3 ppg).**BHA:**

1	22" Bit
1	8" Bit Sub
1	22" Vertical Scout RSS
1	8" x 9 5/8" Combo Motor
1	8" Shock sub
1	8" NMDC
1	8" Directional survey tool
1	22" IB Spiral Stabilizer
9	8" DC
1	XO
21	6 1/2" DC
1	XO

Shaker Screens: 80's**Tubulars:**

Item type	Casing	Drill Pipe
Size	20"	5"
Weight (#/ft)	169	19.5
Grade	L-80	S-135
Thread	BTC	4 1/2 IF
ID (in)	18.376	4.276
Drift (in)	18.188	
Burst (psi)	5690	17105
Collapse (psi)	3020	15672
Tension (klbs)	3916	712
Min MU Torque (ft-lb)	To triangle	38044
Max MU Torque (ft-lb)		

Drilling: Ensure 24" riser w/weld on diverter & rotating head is installed prior to TIH. **INSTALL WEAR BUSHING.** Run 22" bit, BHA w/survey tool and 5" DP to casing point. Saturated brine water will be used to minimize washout in salt sections. After cutting 100' of new hole, slowly increase pump rate to max allowable for rig & downhole tools. **Deviation not to exceed 3°.** Seepage should be controllable with LCM sweeps. After drilling to 3290', pump heavy LCM sweep and circulate hole clean. TOOH for OH logs (Triple combo plus dipole sonic). Clean, drift & tally casing.

Casing: From 0' to 3290' – (20" 169# L-80 BTC CSG)

REMOVE WEAR BUSHING. Fill casing with drilling fluid every 20 jts or less as needed. Run float shoe, 1 jt 20" 169# L-80 BTC casing, float collar w/ SIA, & remainder jts 20" 169# L-80 BTC to surface. **Thread - lock guide shoe and first 2 joints.** Centralizers will go in the middle of the first joint, on the second coupling on the fourth coupling, and every 4th joint thereafter (subject to hole conditions, confirm with POP supervisor). Make sure pipe is centered in wellhead so slips can be easily set prior to landing on floor. Float equipment should be PDC drillable. After getting casing to TD, install circulating swage & circulate bottoms up while RU API Bowl and false table. TIH w/ 5" DP and sting in cement adaptor. **Ensure bow spring centralizer installed on first DP tool joint above sting in cement adaptor. DO NOT RUN DRILL COLLARS. Ensure additional DP picked up is drifted prior to going in the hole.** Sting into float collar. Use 5" pup jts to space out and RU Halliburton DP cement head and chain down to casing to prevent unstinging from 20" float collar. Prior to pumping cement, confirm stung in properly by verifying returns are taken up 20" casing annulus. **Circulate bottoms up with rig prior to cementing.**

Cement: Lead: 605 sks NeoCem + Additives @ 11.5 ppg

Tail: 580 sks VersaCem C + Additives @ 13.5 ppg

Notify NMOCD in sufficient time to witness cementing of casing. After getting casing to TD, TIH w/ 5" DP and sting in cement adaptor. **Ensure bow spring centralizer installed on first DP tool joint above sting in cement adaptor. DO NOT RUN DRILL COLLARS. Ensure additional DP picked up is drifted prior to going in the hole.** Sting into float collar & circulate bottoms up with rig while RU cementers. **Prior to pumping cement, confirm stung in properly by verifying returns are taken up 20" casing annulus.** Cement as prescribed in attached Halliburton cement recommendation. Have next intermediate tail cement on location to ensure cement to surface prior to displacing the inner string. **DO NOT GO INTO DISPLACEMENT UNTIL CEMENT IS CIRCULATED TO SURFACE ON 24" CASING ANNULUS.** Use foam wiper balls to chase cement wiper plug. If cement **does not** circulate, notify POP supervisor for next steps. **If cement does**

circulate, displace inner string with system fluid and ensure casing floats are holding prior to stinging out of float collar. Sting out of float collar with inner string & circulate out cement using **fresh water** at maximum pump rate (reciprocate inner string while displacing if possible). Circulate full 20" casing volume plus inner string volume to balance the string. Once cement is circulated out of inner string and the inside of the 20" casing, shut down and monitor for fluid movement within the 20" casing. **Store drilling fluid or future use.** If fluid inside casing is static, TOH w/ DP. If fluid inside casing is not static, notify POP supervisor for next steps. WOC 24 hours (subject to change based on cement lab report). Baker Hughes SBT cement bond log to verify sufficient cement placement. When sufficient bond confirmed, screw in testing swedge and pressure test casing to 1500 psi for 30 min, chart this test on Pason. After casing test, cut off casing and install 26 $\frac{3}{4}$ " x 20 $\frac{3}{4}$ " slip type casing spool. NU 20 $\frac{3}{4}$ " Annular BOPE & choke manifold, w/ rotating head. **INSTALL WEAR BUSHING.**

Wellhead: 26 $\frac{3}{4}$ " x 20 $\frac{3}{4}$ " 3M rated slip type casing spool

BOPE: 20 $\frac{3}{4}$ " Annular BOPE w/ rotating head & mud cross.

BOPE Testing: Using a test plug, test Annular and riser to 3000 psi with third party. If leak off is observed but cannot be located, stop test to avoid downhole damage and contact POP supervisor for next steps. Test all lines to pump valves, and lines to chokes to 3000 psi.

Second Intermediate Hole**Hole size:** 17 ½"**Depth:** 6285'

Mud: Refer to attached mud program. Fresh water native mud. Need 28 to 36 visc. Mud weight not to exceed 8.8 ppg. **If lost circulation is encountered, utilize the stored surface and Intermediate #1 mud BEFORE using new drilling fluid.**

BHA:

1	17 ½" Bit
1	8" Bit Sub
1	17 ½" RSS
1	8" x 9 5/8" Combo Motor
1	8" Shock sub
1	8" NMDC
1	8" Directional survey tool
1	17 ½" IB Spiral Stabilizer
9	8" DC
1	XO
21	6 ½" DC
1	XO

Shaker Screens: 120's**Tubulars:**

Item type	Casing	Drill Pipe
Size	13 ⅝"	5"
Weight (#/ft)	88.2	19.5
Grade	HCL-80	S-135
Thread	BTC	4 1/2 IF
ID (in)	12.375	4.276
Drift (in)	12.250	
Burst (psi)	6020	17105
Collapse (psi)	3910	15672
Tension (klbs)	1914	712
MU Torque (ft-lb)	To triangle	38044
Max Torque (ft-lb)		

Drilling: Ensure 20 ¾" Annular BOPE & rotating head are NU & tested. **INSTALL WEAR BUSHING.** Run 17 ½" bit, BHA w/survey tool and 5" DP to 6285' casing point. **Build to 12.6° tangent @ XXX° azimuth, at 1.5°/100 ft as per directional plan. Maintain 12.6° tangent until casing point.** In the event of partial losses, seepage should be controllable with LCM sweeps. **DLS not to exceed 2°.** After drilling to 6285', pump heavy LCM sweep and circulate hole clean. TOO H for OH logs (Triple combo plus dipole sonic). Clean, drift & tally casing.

Casing: From 0' to 6285' – (13 ⅝" 88.2# HCL-80 BTC CSG)
(ECP/DV tool @ 5600')

REMOVE WEAR BUSHING. Ensure CRT is rigged up prior to casing entering open hole. Fill casing with drilling fluid every 20 jts or less as needed. Run float shoe, 1 jt 13 ⅝" 88.2# HCL-80 BTC casing, float collar, ~700' - 13 ⅝" 88.2# HCL-80 BTC casing, **ECP/DV TOOL**, and remainder of 13 ⅝" 88.2# HCL-80 BTC casing to surface. **Thread - lock guide shoe and first 2 joints.** Run centralizers in the middle of 1st joint, top of 2nd joint, then every 3rd joint thereafter (subject to hole conditions, confirm with POP supervisor). Ensure one centralizer on first full joint below DV tool and one centralizer on first full joint above DV tool. Float equipment should be PDC drillable. NOTE: need to have 13 3/8" cement adapter XO pup joint to accommodate the Halliburton quick latch head. Prior to starting cement job, haul off all remaining surface drilling fluid in frac tanks to make room for current drilling fluid.

Cement:

Stage 1: Lead: 395 sks CorrosaCem + Additives @ 13.5 ppg

ECP/DV TOOL @ 5600' is this depth correct?

Stage 2: Lead: 1640 sks NeoCem + Additives @ 12.0 ppg

Tail: 1200 sks HalCem + Additives @ 13.5 ppg

Notify NMOCD in sufficient time to witness cementing of casing. After getting casing to TD, displace casing volume with the rig pump. RU cementers and cement as per recommendation. If cement **does not** circulate, notify POP supervisor for next steps. If cement **does** circulate, ND 20 ¾" BOPE, set slips, NU 20 ¾" x 13 ⅝" casing spool, DSA, 13 ⅝" BOPE, 10K choke system, & vent/panic/flare system. Test BOPE with test plug to 5000 psi (see below test procedure) while WOC 24 hours (subject to change based on cement lab report). After BOPE equipment tested, **INSTALL WEAR BUSHING.** PU 12 ¼" bit, BHA & 5" DP back to surface. **NOTE: (DV-ECP Tool @ 5600' TVD.** Drill out DV-ECP tool and float collar. Do not drill float shoe. Use caution when drilling DV tools & float equipment to avoid damaging bit. **Test casing to 1500 psi for 30**

mins with rig pump. Displace hole with clean fluid and TOOH for bond log. Run Baker Hughes SBT cement bond log to verify sufficient cement placement. When sufficient bond confirmed, PU 12 ¼" drilling BHA for next section & TIH.

- Wellhead:** 20 ¾" x 13 ⅝" 5M rated casing spool (ensure wear bushing installed)
- BOPE:** 13 ⅝" 10M rated triple ram BOP stack w/ 13 ⅝" 5M DSA, 5M rated annular & MPD. Think about your pressure testing procedure!! This is 10M BOPE but only 5M wellhead!!
- BOPE Testing:** Test BOP Rams to 5000 psi & Annular to 5000 psi with third party. Test all lines to pump valves, and lines to chokes to 5000 psi.

Third Intermediate Hole**Hole size:** 12 ¼"**Depth:** 10712' MD

Mud: Refer to attached mud program. Cut Brine 9.3 to 9.4 ppg, 29 to 34 visc. If available, blend stored brine into pits to achieve initial target MW. Mud weight to be adjusted as required, prepare for 12.5 ppg. Ensure barite bins are rigged up, loaded and operational before beginning this hole section.

BHA:

1	12 ¼" Bit
1	8" Bit Sub
1	12 ¼" Scout RSS
1	8" Straight Motor
1	8" Shock sub
1	8" NMDC
1	8" Directional survey tool
1	12 ¼" IB Spiral Stabilizer
9	8" DC
1	XO
21	6 ½" DC
1	XO

Shaker Screens: 170's**Tubulars:**

Item type	Casing	Drill Pipe
Size	9 ⅝"	5"
Weight (#/ft)	53.5	19.5
Grade	HCL-80	S-135
Thread	BTC	4 1/2 IF
ID (in)	8.535	4.276 (2.750 conn)
Drift (in)	8.379	
Burst (psi)	7930	17105
Collapse (psi)	7510	15672
Tension (klbs)	1244	712
MU Torque (ft-lb)	To triangle	
Rec Torque (ft-lb)		38044
Max Torque (ft-lb)		

Drilling: Ensure 13 5/8" triple ram BOP stack, 5M rated annular & high pressure dual element MPD system are NU & Tested to 5000 psi. Ensure flare is installed and running. H₂S monitors and related safety equipment will be operational, with safety supervisor on duty, before drilling out 13 5/8" casing shoe. **INSTALL WEAR BUSHING.** Run 12 1/4" bit, BHA w/ RSS, survey tools & 5" DP back to surface. **Before drilling 20' into formation, perform a FIT to 12.5 ppg mud equivalent.** Drill out with viscous cut brine and circulate through steel pits. **Hold 12.6° tangent @ XXX° azimuth until casing point. DLS not to exceed 3".** Utilize mud cleaning equipment to keep fluid as clean as possible. Seepage should be controllable with LCM sweeps. After drilling to 10712' MD, pump heavy LCM sweep and circulate hole clean. TOOH for OH logs (Triple combo plus dipole sonic). LD all 8" DC's. Clean, drift & tally casing.

Casing: From 0' to 10712' MD – (9 5/8" 53.5# HCL-80 BTC CSG) **(ECP/DV tool @ 6385' MD)**

REMOVE WEAR BUSHING. Ensure CRT is rigged up prior to casing entering open hole. Fill casing with drilling fluid every 20 jts or less as needed. Run float shoe, 1 jt 9 5/8" 53.5# HCL-80 BTC casing, float collar, ~4400' - 9 5/8" 53.5# HCL-80 BTC casing, **ECP/DV TOOL**, 9 5/8" 53.5# HCL-80 BTC casing to surface. **Thread - lock guide shoe and first 2 joints.** Run centralizers in the middle of 1st joint, top of 2nd joint, then centralizers every 3rd joint (subject to hole conditions, confirm with POP supervisor). Ensure one centralizer on joint below each DV tool and one centralizer on joint above each DV tool. Float equipment should be PDC drillable.

Cement:

Stage 1: Lead: 600 sks NeoCem + Additives @ 11.5 ppg
Tail: 150 sks VersaCem + Additives @ 13.5 ppg

ECP/DV TOOL @ 6385' MD

Stage 2: Lead: 1040 sks NeoCem + Additives @ 11.5 ppg
Tail: 150 sks VersaCem + Additives @ 13.5 ppg

Notify NMOCD in sufficient time to witness cementing of casing. After getting casing to TD, displace casing volume with the rig pump. RU cementers and cement as per recommendation. If cement **does not** circulate, notify POP supervisor for next steps. If cement **does** circulate, ND 13 5/8" BOPE & 13 5/8" DSA, set slips, cut off casing & NU 13 5/8" x 11" casing spool w/ 13 5/8" BOPE & 11" DSA. Test BOPE with test plug to 10000 psi (see below test procedure) while WOC 24 hours (subject to change based on cement lab report). **INSTALL WEAR**

BUSHING. PU 8 ½" bit, BHA and 5" DP to surface. **NOTE: (DV-ECP Tool @ 6385' MD.** Drill out DV-ECP tools and float collar. Do not drill float shoe. Use caution when drilling DV tools & float equipment to avoid damaging bit. **Test casing to 2356 psi for 30 mins with rig pump & chart on Pason.** Displace hole with clean fluid and TOH. Run Baker Hughes SBT cement bond log to verify sufficient cement placement. While running wireline, clean all pits and haul off used drilling mud in frac tanks. Ensure sufficient quantity of OBM is on site. Load pits with OBM and begin conditioning mud. When sufficient bond confirmed, PU 8 ½" drilling BHA for next section & TIH.

Wellhead: 13 ⅝" x 11" 10M rated casing spool (ensure wear bushing installed)

BOPE: 13 ⅝" 10M psi rated triple ram BOP stack w/10M 13 ⅝" x 10M 11" DSA, 5M annular & rotating head.

BOPE Testing: Test BOP Rams & choke manifold to 10000 psi & Annular to 5000 psi with third party. Test all lines to pump valves to 7500 psi, and lines to chokes to 10000 psi.

Production Hole**Hole size:** 8 ½"**Depth:** 14710' MD

Mud: Refer to attached mud program. Mud up to 12.0 to 12.5 ppg OBM. Expect to increase weight as required for well control. Maintain fluid loss <4. Mud properties may have to be adjusted as needed for hole conditions.

BHA #1:

1	8 ½" Bit
1	6" Bit Sub
1	8 ½" Scout RSS
1	6" Straight Motor
1	6 ¼" Shock sub
1	6 ¼" NMDC
1	6 ¼" Directional survey tool
1	8 ½" IB Spiral Stabilizer
21	6 ½" DC
1	XO

BHA #2:

1	5 7/8" Roller Cone Bit
1	4 7/8" Bit Sub
1	5.95" Smooth OD Reamer
1	4 7/8" Short DC PUP
1	5.95" Smooth OD Reamer
30	4 7/8" DC's
1	XO

Shaker Screens: 170's

Tubulars:

Item type	Casing	Casing	Drill Pipe	Drill Pipe	Drill Collar
Size	7"	7"	5"	4"	4 7/8"
Weight (#/ft)	32#	32#	19.5	15.91	44
Grade	SS-95	G3 CRA	S-135	S-135	S-135
Thread	VA Superior	VAMTOP	4 1/2 IF	XT-39	XT-39
ID (in)	6.094	6.094	4.276 (2.750 conn)	2.963	2.963
Drift (in)	5.969	5.969			
Burst (psi)		12460	17105		
Collapse (psi)		10780	15672	19,490	
Tension (klbs)		607	712	20,140	
Min MU Torque (ft-lb)		7000		404	664
Rec Torque (ft-lb)			38044	22,850	17,000
Max MU Torque (ft-lb)		8000		25,150	20,300

Drilling:

Ensure 13 3/4" 10M rated triple ram BOP stack, 5M rated annular & MPD system are NU & tested. Ensure H₂S monitors and related safety equipment are operational before drilling out shoe. **INSTALL WEAR BUSHING.** PU 8 1/2" bit, BHA #1 w/ RSS, survey tools and 5" drill pipe back to surface. Take returns to the open top trash pit. Drill out shoe and no more than 20' of formation with OBM while displacing previous section mud into the open top trash pit. **Before drilling 20' into formation, perform a FIT to 13.5 ppg mud equivalent. Prior to drilling ahead, circulate and condition mud as per mud recommendation. Maintain 12.6° tangent to a depth sufficient to allow a return to vertical by the top of the Devonian (estimated 14,700' TVD) with DLS no greater than 3°/100 ft. (NOTE: back build will have to start within the Mississippi limestone. Use caution and be gentle when drilling this portion as the Mississippi limestone is very hard drilling).** Utilize mud cleaning equipment to keep fluid as clean as possible. When nearing the top of the Devonian formation, **ensure POP rep is onsite**, slow ROP to 20 fph. Upon seeing drilling break at Devonian top, stop drilling & circulate samples to surface. If samples do not indicate good carbonate, drill and additional 5', stop drilling & circ samples to surface. Continue this process until clean dolomite/lime is observed. **Do not drill any further into the Devonian than required to see clean dolomite/limestone.** After drilling to TD (est. 14710' MD), pump heavy LCM sweep and circulate hole clean. TOOH. Run OH logs (Triple combo plus dipole sonic, OB FMI & sidewall cores). PU 8 1/2" bit, conventional BHA w/IBS (NO RSS or survey tools) & 5" DP back to surface. TIH to TD washing & reaming any tight spots. Upon reaching TD, pump heavy LCM sweep and circulate hole clean. TOOH to shoe, then LDDP

& DC's in preparation to run casing. Clean drift and tally casing.

Casing:

From 14710'-14410' MD – (7" 32# G3 CRA VAMTOP CSG)
 From 0' to 14410' MD – (7" 32# SS-95 VA Super CSG)
(ECP/DV tools @ 10812' MD & 14410' MD)

REMOVE WEAR BUSHING. Ensure CRT is rigged up prior to casing entering open hole. Fill casing with drilling fluid every 20 jts or less as needed. Float shoe, 2 jt 7" 32# G3 CRA VAMTOP casing, CRA float collar, remainder of 7" 32# G3 CRA VAMTOP casing, **Lower ECP/DV TOOL**, ~3700' 7" 32# SS-95 VA Superior casing, **Upper ECP/DV TOOL**, and remainder of 7" 32# SS-95 VA Superior casing to surface. **Thread - lock guide shoe and first 2 joints.** Run two carbon steel stop collars on top of float collar, two carbon steel stop collars on top of 3rd joint, two carbon steel stop collars on top of 4th joint, and two carbon steel stop collars on top of 6th joint. Run centralizers in the middle of 1st joint, top of 2nd joint, then every 3rd coupling thereafter (subject to hole conditions, confirm with POP supervisor). Float equipment should be PDC drillable.

Cement:

Stage 1:

Lead: 15 bbls Halliburton WellLock Resin @ 12.5 ppg

ECP/DV TOOL @ 14410' MD

Stage 2:

Lead: 175 sks HalCem H + Additives @ 12.5 ppg

Tail: 110 sks CorrosaCem H + Additives @ 13.5 ppg

ECP/DV TOOL @ 10812' MD

Stage 3:

Lead: 695 sks HalCem + Additives @ 12.5 ppg

Tail: 55 sks VersaCem + Additives @13.5 ppg

Notify NMOCD in sufficient time to witness cementing of casing. After getting casing to TD, displace casing volume with the rig pump. RU cementers and cement as per recommendation. If cement **does not** circulate, notify POP supervisor for next step. If cement **does** circulate, ND 13 5/8" BOPE & 11" DSA, set slips, cut off casing, NU 11" 10M x 7 1/16" 10M casing spool w/13 5/8" BOPE, 11" DSA & 7 1/16" DSA. If required, remove lower rams to fit BOPE under rig. Test BOPE with test plug to 10000 psi (see below test procedure) while WOC 24 hours (subject to change based on cement lab report). Rack & Tally 4 7/8" DC's & 4" DP while WOC/Testing BOPE. **INSTALL WEAR BUSHING.** PU 5 7/8" roller cone bit, BHA #2 and 4" DP to surface. **NOTE: Upper DV-ECP Tool @ 10812' MD, Lower DV-ECP Tool @ 14410' MD.** Drill out DV-ECP tools, float collar & 2nd jt of 7" CRA. **Do not drill float shoe but ensure upper reamer is able to work**

lower DV tool. Work DV tools with UPPER reamers until there is no observable drag while tripping in and out. Use caution when drilling DV tools & float equipment to avoid damaging bit. **Test casing to 3236 psi for 30 mins with rig pump & chart on Pason.** Clean sand trap & settling pit. Load pits with FW & displace hole w/FW while transferring OBM to frac tanks. TOOH & run Baker Hughes SBT/Intex cement bond log to verify sufficient cement placement. When sufficient bond confirmed, begin haul off OBM & PU 5 7/8" drilling BHA for next section & TIH.

Wellhead: 11" x 7 1/16" 10M rated tubing spool (ensure wear bushing installed)

BOPE: 13 5/8" 10M rated triple ram BOP stack w/11" 10M DSA & 7 1/16" 10M DSA, 5M annular & rotating head.

BOPE Testing: Test BOP Rams & choke manifold to 10000 psi & Annular to 5000 psi with third party. Test all lines to pump valves to 7500 psi, and lines to chokes to 10000 psi.

Open Injection Hole**Hole size:** 5 7/8"**Depth:** 16124' MD (estimated)

Mud: Refer to attached mud program. Fresh water 29 to 32 visc. Expect water flow while drilling. Expect weight to climb while drilling. Mud weight not to exceed 9.0 ppg. Mud properties may have to be adjusted as needed for hole conditions. **Lost circulation possible. DO NOT PUMP LCM IN THIS INTERVAL. DO NOT USE GEL FOR VISCOSITY, POLY ONLY.**

BHA:

1	5 7/8" Bit
1	4 7/8" Bit Sub
1	4 7/8" 1.5° Motor
2	4 7/8" NMDC's
1	4 7/8" MWD Tools w/ GR
30	4 7/8" DC
1	XO

Shaker Screens: 170's**Tubulars:**

Item type	Drill Pipe	Drill Collar
Size (in)	4"	4 7/8"
Weight (#/ft)	15.91	44
Grade	S-135	S-135
Thread	XT-39	XT-39
ID (in)	2.963	2.963
Burst (psi)	19,490	
Collapse (psi)	20,140	
Tension (klbs)	403,500	663,700
Min MU Torque (ft-lb)	22,850	17,000
Max MU Torque (ft-lb)	25,150	20,300

Drilling: Ensure 13 7/8" 10M rated triple ram BOP stack, 5M rated annular & MPD

system are NU & tested. Ensure H₂S monitors and related safety equipment are operational before drilling out 7" casing shoe. **INSTALL WEAR BUSHING.** PU 5 7/8" bit, BHA, survey tools & 4" XT39 DP or equivalent back to surface. Drill out 7" casing shoe and 20' of formation. **Perform a FIT to 9.0 ppg mud equivalent. Deviation not to exceed 3°.** Utilize mud cleaning equipment to keep fluid as clean as possible. Drill to 16124' MD, pump hi vis sweep and circulate hole clean. **DO NOT PUMP LCM IN THIS INTERVAL. DO NOT USE GEL FOR VISCOSITY, POLY ONLY.** Water flows can be controlled with MPD and losses are expected. **DO NOT DRILL INTO MONTOYA FORMATION (expect Fusselman to log dolomite and may see CHERT RETURNS prior to Montoya limestone).** TOOH. Spot 10# brine as necessary to kill well. Run OH logs (Triple combo plus dipole sonic, press, temp, FMI & sidewall cores). Run WL 5.95" gauge ring to ~14700' MD. RDMO wireline. TIH w/ 5 7/8" bit, conventional BHA & 4" XT-39 DP or equivalent to surface. Circulate hole clean and spot 3000 gal 15% HCl acid. TOOH.

Wellhead:	No change in wellhead required. 11" x 7 1/16" 10M rated tubing spool (ensure wear bushing installed)
BOPE:	13 5/8" 10M rated triple ram BOP stack w/11" 10M DSA & 7 1/16" 10M DSA, 5M annular & rotating head.
BOPE Testing:	None required.

Completion

Stimulation: PU 7" test packer & 4" XT39 DP back to surface. Set test packer at ~14700' MD (depth may adjust depending on actual casing set depths). RU wireline & run 15 kpsi rated SRO pressure gauges to 10' below packer. RU pump crew w/ 3", 10K iron. Pump SRT as per design (TBD). Monitor downhole pressures until stabilized (est. 7 days). RDMO wireline unit and pump acid stimulation job as per design (TBD, 40K gal 15% HCL + salt block). Unseat test packer and TOOH. LD test packer & PU 5 7/8" bit, BHA & 4" XT39 DP back to surface. Pump FW and circulate hole clean. TOOH to shoe then LDDP.

Packer: 7" x 3 1/2" Inconel 925 permanent packer w/ X profile nipple

Packer Fluid: Diesel, with anti-corrosion additives

Packer Setting: MIRU wireline truck. PU 5.95" gauge ring and RIH to 14700' MD. POOH and PU Baker #20 setting Tool, CCL & 3 1/2" x 7" Perma-Pak Packer with 1 jt 3 1/2" 9.3# G3 CRA tubing tail pipe & pump out plug. RIH w/packer on wireline to packer setting depth (~14660' MD, < 100' to 7" csg shoe req'd) & set packer. POOH w/wireline. Shut blinds & pressure test casing/packer to 500 psi for 1 hour. If packer holds, RDMO wireline truck.

Tubing:

Item type	Tubing	Tubing
Size (in)	3 1/2	3 1/2
Weight (#/ft)	10.2	10.2
Grade	SS-95	G3 CRA
Thread	VA Super	VAMTOP
ID (in)	2.922	2.992
Drift (in)	2.797	2.867
Burst (psi)	13720	13970
Collapse (psi)	14390	13530
Tension (klbs)	277	285
Min MU Torque (ft-lb)		2860
Nom MU Torque (ft-lb)	3020	
Max MU Torque (ft-lb)		3480

From 14360' to ~14660' MD (3 1/2" 10.2# G# VAMTOP)

From 0'-14360' MD (3 1/2" 10.2# SS-95 VA Superior)

Note: Subsurface safety valve w/ X profile nipple (SSSV) set @ 100', and

bottomhole pressure-temperature annular and tubing gauges will be run concurrently with tubing. Each tubing connection to be pressure tested at time of assembly using 3rd party internal helium test equipment.

Clean, drift & tally tubing. **REMOVE WEAR BUSHING.** RU casing crew w/ torque turn w/tubing tongs with **integral backups.** RU spoolers. Run **self ratcheting** packer seal assembly, P-T mandrel assembly and control line, 300' of 3 ½" 10.2# G3 CRA VAMTOP tubing, 3 ½" VAMTOP x VA Superior crossover, ~14200' of 3 ½" 10.2# SS-95 VA Superior tubing, SSSV & control line, 3 ½" 10.2# SS-95 VA Superior tubing to surface & tubing hanger as per design. PU landing joint and space out packer to correspond with proper landing depth. **Confirm drag on tubing prior to tagging packer.** Sting into packer w/Halliburton recommended set down weight to confirm space out. **Pressure up on inside of tubing string to 500 psi to confirm stung in.** Sting out of packer. LD upper tubing jt(s) & PU proper space out subs, tubing hanger w/landing jt. RU kill truck w/ containment and circulate diesel packer fluid throughout. Pump 25% excess & confirm clean fluid to surface. Sting into packer & set weight on packer as per Halliburton packer representative specifications. **Pressure up on SSSV control line to open SSSV. Pressure up on inside of tubing string to 500 psi to confirm stung in.** ND BOP & set tubing hanger with remaining string weight. **Test backside to 500 psi with tubing open to confirm tubing hanger seal (will need to open SSSV again).** ND BOPE & NU 7 ⅙" x 3 ⅙" 5M injection head. Make pass through TEC & control line terminations & pressure test to wellhead rep specs. Pressure test annulus to 500 psi minimum for 30 minutes using 3rd party tester w/ 8", 1000 psi calibrated chart recorder. 10% deviation from initial pressure is maximum allowable in 1st 15 minutes, 0 psi thereafter. **Function test SSSV, & P-T gauges and all associated surface equipment prior to releasing vendor crews and RDMO.**

Note: Schedule MIT with Barbara Lydick, NMOCD Hobbs (575)-703-4641, as soon as possible.

Wellhead: Vault 7 ⅙" 10M x 3 ⅙" 10M injection tree

Lea Midstream

**Lea County, NM (NAD 83)
White Russian AGI #1**

OH

Plan: Prelim 1

Standard Planning Report

04 June, 2025

SDT
Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Midstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 1		

Project	Lea County, 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		White Russian AGI #1			
Site Position:		Northing:	604,037.66 usft	Latitude:	32.657656
From:	Lat/Long	Easting:	803,466.79 usft	Longitude:	-103.481600
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	White Russian AGI #1					
Well Position	+N/-S	0.00 usft	Northing:	604,037.66 usft	Latitude:	32.657656
	+E/-W	0.00 usft	Easting:	803,466.79 usft	Longitude:	-103.481600
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,700.00 usft
Grid Convergence:		0.46 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	6/4/2025	6.03	60.41	47,395.74522569

Design	Prelim 1				
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	306.21	

Plan Survey Tool Program	Date	6/4/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,259.95 Prelim 1 (OH)	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,390.00	0.00	0.00	3,390.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,987.70	11.95	306.21	3,983.38	36.70	-50.13	2.00	2.00	0.00	306.21	
14,238.24	11.95	306.21	14,011.62	1,291.03	-1,763.17	0.00	0.00	0.00	0.00	
14,835.95	0.00	0.00	14,605.00	1,327.73	-1,813.30	2.00	-2.00	0.00	180.00	
16,259.95	0.00	0.00	16,029.00	1,327.73	-1,813.30	0.00	0.00	0.00	0.00	W.T. AGI #1 PBHL

SDT

Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Mldstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 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)
0.00	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
751.00	0.00	0.00	751.00	0.00	0.00	0.00	0.00	0.00	0.00
Dockum									
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
1,420.00	0.00	0.00	1,420.00	0.00	0.00	0.00	0.00	0.00	0.00
Ochoa-Dewey									
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
1,860.00	0.00	0.00	1,860.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,865.00	0.00	0.00	1,865.00	0.00	0.00	0.00	0.00	0.00	0.00
24" Surface Casing									
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
2,148.00	0.00	0.00	2,148.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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
3,286.00	0.00	0.00	3,286.00	0.00	0.00	0.00	0.00	0.00	0.00
Tansill									
3,290.00	0.00	0.00	3,290.00	0.00	0.00	0.00	0.00	0.00	0.00
20" Intermediate Casing									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,390.00	0.00	0.00	3,390.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
3,400.00	0.20	306.21	3,400.00	0.01	-0.01	0.02	2.00	2.00	0.00
3,471.01	1.62	306.21	3,471.01	0.68	-0.92	1.15	2.00	2.00	0.00
Yates									

SDT Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Midstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 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)
3,500.00	2.20	306.21	3,499.97	1.25	-1.70	2.11	2.00	2.00	0.00
3,600.00	4.20	306.21	3,599.81	4.55	-6.21	7.69	2.00	2.00	0.00
3,700.00	6.20	306.21	3,699.40	9.90	-13.52	16.76	2.00	2.00	0.00
3,800.00	8.20	306.21	3,798.60	17.30	-23.63	29.29	2.00	2.00	0.00
3,900.00	10.20	306.21	3,897.31	26.75	-36.53	45.28	2.00	2.00	0.00
3,987.70	11.95	306.21	3,983.38	36.70	-50.13	62.13	2.00	2.00	0.00
Start 10250.54 hold at 3987.70 MD									
3,990.39	11.95	306.21	3,986.00	37.03	-50.57	62.68	0.00	0.00	0.00
7Rivers									
4,000.00	11.95	306.21	3,995.41	38.21	-52.18	64.67	0.00	0.00	0.00
4,100.00	11.95	306.21	4,093.24	50.44	-68.89	85.39	0.00	0.00	0.00
4,200.00	11.95	306.21	4,191.07	62.68	-85.60	106.10	0.00	0.00	0.00
4,300.00	11.95	306.21	4,288.90	74.92	-102.32	126.81	0.00	0.00	0.00
4,400.00	11.95	306.21	4,386.73	87.15	-119.03	147.52	0.00	0.00	0.00
4,500.00	11.95	306.21	4,484.56	99.39	-135.74	168.24	0.00	0.00	0.00
4,600.00	11.95	306.21	4,582.39	111.63	-152.45	188.95	0.00	0.00	0.00
4,700.00	11.95	306.21	4,680.23	123.86	-169.16	209.66	0.00	0.00	0.00
4,740.66	11.95	306.21	4,720.00	128.84	-175.96	218.08	0.00	0.00	0.00
Queen									
4,800.00	11.95	306.21	4,778.06	136.10	-185.87	230.38	0.00	0.00	0.00
4,900.00	11.95	306.21	4,875.89	148.34	-202.59	251.09	0.00	0.00	0.00
5,000.00	11.95	306.21	4,973.72	160.57	-219.30	271.80	0.00	0.00	0.00
5,100.00	11.95	306.21	5,071.55	172.81	-236.01	292.51	0.00	0.00	0.00
5,200.00	11.95	306.21	5,169.38	185.05	-252.72	313.23	0.00	0.00	0.00
5,257.87	11.95	306.21	5,226.00	192.13	-262.39	325.21	0.00	0.00	0.00
Grayburg									
5,300.00	11.95	306.21	5,267.21	197.28	-269.43	333.94	0.00	0.00	0.00
5,400.00	11.95	306.21	5,365.05	209.52	-286.15	354.65	0.00	0.00	0.00
5,500.00	11.95	306.21	5,462.88	221.76	-302.86	375.36	0.00	0.00	0.00
5,600.00	11.95	306.21	5,560.71	233.99	-319.57	396.08	0.00	0.00	0.00
5,642.21	11.95	306.21	5,602.00	239.16	-326.62	404.82	0.00	0.00	0.00
SanAndres									
5,700.00	11.95	306.21	5,658.54	246.23	-336.28	416.79	0.00	0.00	0.00
5,800.00	11.95	306.21	5,756.37	258.47	-352.99	437.50	0.00	0.00	0.00
5,900.00	11.95	306.21	5,854.20	270.70	-369.70	458.22	0.00	0.00	0.00
6,000.00	11.95	306.21	5,952.03	282.94	-386.42	478.93	0.00	0.00	0.00
6,100.00	11.95	306.21	6,049.87	295.18	-403.13	499.64	0.00	0.00	0.00
6,200.00	11.95	306.21	6,147.70	307.41	-419.84	520.35	0.00	0.00	0.00
6,285.00	11.95	306.21	6,230.85	317.82	-434.04	537.96	0.00	0.00	0.00
13-5/8" Intermediate Casing									
6,300.00	11.95	306.21	6,245.53	319.65	-436.55	541.07	0.00	0.00	0.00
6,313.77	11.95	306.21	6,259.00	321.34	-438.85	543.92	0.00	0.00	0.00
CherryCnyn									
6,400.00	11.95	306.21	6,343.36	331.89	-453.26	561.78	0.00	0.00	0.00
6,500.00	11.95	306.21	6,441.19	344.12	-469.97	582.49	0.00	0.00	0.00
6,600.00	11.95	306.21	6,539.02	356.36	-486.69	603.21	0.00	0.00	0.00
6,700.00	11.95	306.21	6,636.85	368.60	-503.40	623.92	0.00	0.00	0.00
6,800.00	11.95	306.21	6,734.69	380.83	-520.11	644.63	0.00	0.00	0.00
6,900.00	11.95	306.21	6,832.52	393.07	-536.82	665.34	0.00	0.00	0.00
7,000.00	11.95	306.21	6,930.35	405.31	-553.53	686.06	0.00	0.00	0.00
7,100.00	11.95	306.21	7,028.18	417.54	-570.25	706.77	0.00	0.00	0.00
7,200.00	11.95	306.21	7,126.01	429.78	-586.96	727.48	0.00	0.00	0.00
7,300.00	11.95	306.21	7,223.84	442.02	-603.67	748.20	0.00	0.00	0.00

SDT

Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Midstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 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)
7,400.00	11.95	306.21	7,321.67	454.25	-620.38	768.91	0.00	0.00	0.00
7,500.00	11.95	306.21	7,419.51	466.49	-637.09	789.62	0.00	0.00	0.00
7,600.00	11.95	306.21	7,517.34	478.73	-653.80	810.33	0.00	0.00	0.00
7,700.00	11.95	306.21	7,615.17	490.96	-670.52	831.05	0.00	0.00	0.00
7,800.00	11.95	306.21	7,713.00	503.20	-687.23	851.76	0.00	0.00	0.00
7,900.00	11.95	306.21	7,810.83	515.44	-703.94	872.47	0.00	0.00	0.00
8,000.00	11.95	306.21	7,908.66	527.67	-720.65	893.18	0.00	0.00	0.00
8,100.00	11.95	306.21	8,006.49	539.91	-737.36	913.90	0.00	0.00	0.00
8,144.47	11.95	306.21	8,050.00	545.35	-744.80	923.11	0.00	0.00	0.00
B.Spring									
8,200.00	11.95	306.21	8,104.32	552.15	-754.07	934.61	0.00	0.00	0.00
8,300.00	11.95	306.21	8,202.16	564.38	-770.79	955.32	0.00	0.00	0.00
8,400.00	11.95	306.21	8,299.99	576.62	-787.50	976.04	0.00	0.00	0.00
8,500.00	11.95	306.21	8,397.82	588.86	-804.21	996.75	0.00	0.00	0.00
8,600.00	11.95	306.21	8,495.65	601.09	-820.92	1,017.46	0.00	0.00	0.00
8,700.00	11.95	306.21	8,593.48	613.33	-837.63	1,038.17	0.00	0.00	0.00
8,800.00	11.95	306.21	8,691.31	625.57	-854.35	1,058.89	0.00	0.00	0.00
8,900.00	11.95	306.21	8,789.14	637.80	-871.06	1,079.60	0.00	0.00	0.00
9,000.00	11.95	306.21	8,886.98	650.04	-887.77	1,100.31	0.00	0.00	0.00
9,100.00	11.95	306.21	8,984.81	662.28	-904.48	1,121.03	0.00	0.00	0.00
9,200.00	11.95	306.21	9,082.64	674.51	-921.19	1,141.74	0.00	0.00	0.00
9,300.00	11.95	306.21	9,180.47	686.75	-937.90	1,162.45	0.00	0.00	0.00
9,400.00	11.95	306.21	9,278.30	698.99	-954.62	1,183.16	0.00	0.00	0.00
9,500.00	11.95	306.21	9,376.13	711.22	-971.33	1,203.88	0.00	0.00	0.00
9,600.00	11.95	306.21	9,473.96	723.46	-988.04	1,224.59	0.00	0.00	0.00
9,700.00	11.95	306.21	9,571.80	735.70	-1,004.75	1,245.30	0.00	0.00	0.00
9,800.00	11.95	306.21	9,669.63	747.93	-1,021.46	1,266.01	0.00	0.00	0.00
9,900.00	11.95	306.21	9,767.46	760.17	-1,038.18	1,286.73	0.00	0.00	0.00
10,000.00	11.95	306.21	9,865.29	772.41	-1,054.89	1,307.44	0.00	0.00	0.00
10,100.00	11.95	306.21	9,963.12	784.64	-1,071.60	1,328.15	0.00	0.00	0.00
10,200.00	11.95	306.21	10,060.95	796.88	-1,088.31	1,348.87	0.00	0.00	0.00
10,300.00	11.95	306.21	10,158.78	809.12	-1,105.02	1,369.58	0.00	0.00	0.00
10,400.00	11.95	306.21	10,256.62	821.35	-1,121.73	1,390.29	0.00	0.00	0.00
10,500.00	11.95	306.21	10,354.45	833.59	-1,138.45	1,411.00	0.00	0.00	0.00
10,600.00	11.95	306.21	10,452.28	845.83	-1,155.16	1,431.72	0.00	0.00	0.00
10,700.00	11.95	306.21	10,550.11	858.06	-1,171.87	1,452.43	0.00	0.00	0.00
10,712.00	11.95	306.21	10,561.85	859.53	-1,173.87	1,454.92	0.00	0.00	0.00
9-5/8" Intermediate Casing									
10,791.88	11.95	306.21	10,640.00	869.31	-1,187.22	1,471.46	0.00	0.00	0.00
Wolfcamp									
10,800.00	11.95	306.21	10,647.94	870.30	-1,188.58	1,473.14	0.00	0.00	0.00
10,900.00	11.95	306.21	10,745.77	882.54	-1,205.29	1,493.86	0.00	0.00	0.00
11,000.00	11.95	306.21	10,843.60	894.77	-1,222.00	1,514.57	0.00	0.00	0.00
11,100.00	11.95	306.21	10,941.44	907.01	-1,238.72	1,535.28	0.00	0.00	0.00
11,200.00	11.95	306.21	11,039.27	919.25	-1,255.43	1,555.99	0.00	0.00	0.00
11,300.00	11.95	306.21	11,137.10	931.48	-1,272.14	1,576.71	0.00	0.00	0.00
11,400.00	11.95	306.21	11,234.93	943.72	-1,288.85	1,597.42	0.00	0.00	0.00
11,500.00	11.95	306.21	11,332.76	955.96	-1,305.56	1,618.13	0.00	0.00	0.00
11,600.00	11.95	306.21	11,430.59	968.19	-1,322.28	1,638.85	0.00	0.00	0.00
11,700.00	11.95	306.21	11,528.42	980.43	-1,338.99	1,659.56	0.00	0.00	0.00
11,800.00	11.95	306.21	11,626.25	992.67	-1,355.70	1,680.27	0.00	0.00	0.00
11,900.00	11.95	306.21	11,724.09	1,004.90	-1,372.41	1,700.98	0.00	0.00	0.00
12,000.00	11.95	306.21	11,821.92	1,017.14	-1,389.12	1,721.70	0.00	0.00	0.00

SDT Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Midstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 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)	
12,100.00	11.95	306.21	11,919.75	1,029.38	-1,405.83	1,742.41	0.00	0.00	0.00	
12,195.32	11.95	306.21	12,013.00	1,041.04	-1,421.76	1,762.15	0.00	0.00	0.00	
Strawn										
12,200.00	11.95	306.21	12,017.58	1,041.61	-1,422.55	1,763.12	0.00	0.00	0.00	
12,300.00	11.95	306.21	12,115.41	1,053.85	-1,439.26	1,783.83	0.00	0.00	0.00	
12,400.00	11.95	306.21	12,213.24	1,066.09	-1,455.97	1,804.55	0.00	0.00	0.00	
12,500.00	11.95	306.21	12,311.07	1,078.32	-1,472.68	1,825.26	0.00	0.00	0.00	
12,546.94	11.95	306.21	12,357.00	1,084.07	-1,480.53	1,834.98	0.00	0.00	0.00	
Atoka										
12,600.00	11.95	306.21	12,408.91	1,090.56	-1,489.39	1,845.97	0.00	0.00	0.00	
12,700.00	11.95	306.21	12,506.74	1,102.80	-1,506.10	1,866.69	0.00	0.00	0.00	
12,800.00	11.95	306.21	12,604.57	1,115.04	-1,522.82	1,887.40	0.00	0.00	0.00	
12,900.00	11.95	306.21	12,702.40	1,127.27	-1,539.53	1,908.11	0.00	0.00	0.00	
13,000.00	11.95	306.21	12,800.23	1,139.51	-1,556.24	1,928.82	0.00	0.00	0.00	
13,100.00	11.95	306.21	12,898.06	1,151.75	-1,572.95	1,949.54	0.00	0.00	0.00	
13,113.22	11.95	306.21	12,911.00	1,153.36	-1,575.16	1,952.28	0.00	0.00	0.00	
Morrow										
13,200.00	11.95	306.21	12,995.89	1,163.98	-1,589.66	1,970.25	0.00	0.00	0.00	
13,300.00	11.95	306.21	13,093.73	1,176.22	-1,606.38	1,990.96	0.00	0.00	0.00	
13,400.00	11.95	306.21	13,191.56	1,188.46	-1,623.09	2,011.68	0.00	0.00	0.00	
13,500.00	11.95	306.21	13,289.39	1,200.69	-1,639.80	2,032.39	0.00	0.00	0.00	
13,600.00	11.95	306.21	13,387.22	1,212.93	-1,656.51	2,053.10	0.00	0.00	0.00	
13,700.00	11.95	306.21	13,485.05	1,225.17	-1,673.22	2,073.81	0.00	0.00	0.00	
13,800.00	11.95	306.21	13,582.88	1,237.40	-1,689.93	2,094.53	0.00	0.00	0.00	
13,900.00	11.95	306.21	13,680.71	1,249.64	-1,706.65	2,115.24	0.00	0.00	0.00	
14,000.00	11.95	306.21	13,778.55	1,261.88	-1,723.36	2,135.95	0.00	0.00	0.00	
14,008.64	11.95	306.21	13,787.00	1,262.93	-1,724.80	2,137.74	0.00	0.00	0.00	
Osage										
14,100.00	11.95	306.21	13,876.38	1,274.11	-1,740.07	2,156.66	0.00	0.00	0.00	
14,200.00	11.95	306.21	13,974.21	1,286.35	-1,756.78	2,177.38	0.00	0.00	0.00	
14,238.24	11.95	306.21	14,011.62	1,291.03	-1,763.17	2,185.30	0.00	0.00	0.00	
Start Drop -2.00										
14,300.00	10.72	306.21	14,072.17	1,298.20	-1,772.97	2,197.44	2.00	-2.00	0.00	
14,400.00	8.72	306.21	14,170.73	1,308.17	-1,786.59	2,214.32	2.00	-2.00	0.00	
14,500.00	6.72	306.21	14,269.82	1,316.11	-1,797.42	2,227.75	2.00	-2.00	0.00	
14,600.00	4.72	306.21	14,369.32	1,321.99	-1,805.46	2,237.71	2.00	-2.00	0.00	
14,666.85	3.38	306.21	14,436.00	1,324.78	-1,809.27	2,242.44	2.00	-2.00	0.00	
Woodford										
14,700.00	2.72	306.21	14,469.10	1,325.83	-1,810.70	2,244.20	2.00	-2.00	0.00	
14,710.00	2.52	306.21	14,479.09	1,326.10	-1,811.06	2,244.66	2.00	-2.00	0.00	
7" Production Casing										
14,800.00	0.72	306.21	14,569.05	1,327.60	-1,813.12	2,247.20	2.00	-2.00	0.00	
14,835.95	0.00	0.00	14,605.00	1,327.73	-1,813.30	2,247.43	2.00	-2.00	0.00	
Start 1424.00 hold at 14835.95 MD - Devonian										
14,900.00	0.00	0.00	14,669.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
15,000.00	0.00	0.00	14,769.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
15,100.00	0.00	0.00	14,869.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
15,134.95	0.00	0.00	14,904.00	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
Wristen										
15,200.00	0.00	0.00	14,969.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
15,300.00	0.00	0.00	15,069.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
15,400.00	0.00	0.00	15,169.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	
15,500.00	0.00	0.00	15,269.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00	

SDT
Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Midstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 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)
15,600.00	0.00	0.00	15,369.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
15,646.95	0.00	0.00	15,416.00	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
Fusselman									
15,700.00	0.00	0.00	15,469.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
15,800.00	0.00	0.00	15,569.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
15,900.00	0.00	0.00	15,669.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
16,000.00	0.00	0.00	15,769.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
16,100.00	0.00	0.00	15,869.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
16,200.00	0.00	0.00	15,969.05	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
16,259.95	0.00	0.00	16,029.00	1,327.73	-1,813.30	2,247.43	0.00	0.00	0.00
TD at 16259.95									

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									
W.T. AGI #1 SHL	0.00	0.00	0.00	0.00	0.00	604,037.66	803,466.79	32.657656	-103.481600
- plan hits target center									
- Point									
W.T. AGI #1 PBHL	0.00	0.00	16,029.00	1,327.73	-1,813.30	605,365.39	801,653.49	32.661345	-103.487457
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,865.00	1,865.00	24" Surface Casing	24	27-1/4	
3,290.00	3,290.00	20" Intermediate Casing	20	22	
6,285.00	6,230.85	13-5/8" Intermediate Casing	13-5/8	17-1/2	
10,712.00	10,561.85	9-5/8" Intermediate Casing	9-5/8	12-1/4	
14,710.00	14,479.09	7" Production Casing	7	8-1/2	

SDT
Planning Report

Database:	EDM 5000 Multi User Db	Local Co-ordinate Reference:	Well White Russian AGI #1
Company:	Lea Midstream	TVD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD 83)	MD Reference:	Est. 3700+25 @ 3725.00usft (TBD)
Site:	White Russian AGI #1	North Reference:	Grid
Well:	White Russian AGI #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
751.00	751.00	Dockum				
1,420.00	1,420.00	Ochoa-Dewey				
1,860.00	1,860.00	Rustler				
2,148.00	2,148.00	Salado				
3,286.00	3,286.00	Tansill				
3,471.01	3,471.00	Yates				
3,990.39	3,986.00	7Rivers				
4,740.66	4,720.00	Queen				
5,257.87	5,226.00	Grayburg				
5,642.21	5,602.00	SanAndres				
6,313.77	6,259.00	CherryCnyn				
8,144.47	8,050.00	B.Spring				
10,791.88	10,640.00	Wolfcamp				
12,195.32	12,013.00	Strawn				
12,546.94	12,357.00	Atoka				
13,113.22	12,911.00	Morrow				
14,008.64	13,787.00	Osage				
14,666.85	14,436.00	Woodford				
14,835.95	14,605.00	Devonian				
15,134.95	14,904.00	Wristen				
15,646.95	15,416.00	Fusselman				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,390.00	3,390.00	0.00	0.00	Start Build 2.00	
3,987.70	3,983.38	36.70	-50.13	Start 10250.54 hold at 3987.70 MD	
14,238.24	14,011.62	1,291.03	-1,763.17	Start Drop -2.00	
14,835.95	14,605.00	1,327.73	-1,813.30	Start 1424.00 hold at 14835.95 MD	
16,259.95	16,029.00	1,327.73	-1,813.30	TD at 16259.95	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

ACKNOWLEDGMENTS

Action 515280

ACKNOWLEDGMENTS

Operator: Lea Midstream, LLC 3500 Maple Ave Dallas, TX 75219	OGRID: 333151
	Action Number: 515280
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 515280

CONDITIONS

Operator: Lea Midstream, LLC 3500 Maple Ave Dallas, TX 75219	OGRID: 333151
	Action Number: 515280
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	10/17/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	10/17/2025
ward.rikala	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.	10/17/2025
ward.rikala	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.	10/17/2025
ward.rikala	1. Permittee shall conduct step-rate and fall-off tests on the completed Well before commencing injection. Permittee may adjust the maximum surface injection pressure for the Well after these tests with the approval of the OCD.	10/17/2025
ward.rikala	2. Permittee shall use a corrosion-inhibiting diesel with a biocide component as the annular fluid of the Well.	10/17/2025
ward.rikala	3. Permittee shall equip the Well with a pressure-limiting device and a one-way subsurface safety valve ("SSSV") on the tubing approximately 100 feet to 250 feet below the surface. The SSSV shall be suitably designed and/or sized to allow the passage of a barrier isolation device to isolate the reservoir at or immediately above the packer using a bridge plug or a locking mandrel set in a landing nipple.	10/17/2025
ward.rikala	4. All casing shall have cement circulated to the surface with placement confirmed by cement bond logs.	10/17/2025
ward.rikala	5. Well construction shall be designed for exposure to corrosive environment including, but not limited to, casing, casing cement, tubing, and the packer in proximity of injection interval.	10/17/2025
ward.rikala	6. Prior to commencing injection, Permittee shall obtain OCD's approval of a hydrogen-sulfide contingency plan that complies with Rule 19.15.11.9 NMAC.	10/17/2025
ward.rikala	Prior to commencing injection, a successful MIT must be performed and recorded.	10/17/2025
ward.rikala	Prior to injection, must contact UIC group for final approval.	10/27/2025