

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM138896
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM141169X
2. Name of Operator CIVITAS PERMIAN OPERATING LLC		8. Lease Name and Well No. SEINFELD YADA FEDERAL UNIT 112H
3a. Address 555 17TH STREET SUITE 3700, DENVER, CO 80202	3b. Phone No. (include area code) (303) 293-1000	9. API Well No. 30-025-55836
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESW / 238 FSL / 2278 FWL / LAT 32.1673759 / LONG -103.3394841 At proposed prod. zone NENW / 5 FNL / 1870 FWL / LAT 32.195743 / LONG -103.3408128		10. Field and Pool, or Exploratory WC-025 G-09 S243532M/WOLFBONE
14. Distance in miles and direction from nearest town or post office* 9 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 35/T24S/R35E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 238 feet	16. No of acres in lease	12. County or Parish LEA
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet	17. Spacing Unit dedicated to this well 320.0	13. State NM
19. Proposed Depth 10013 feet / 20379 feet	20. BLM/BIA Bond No. in file FED: NMB106332702	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3252 feet	22. Approximate date work will start* 01/15/2026	23. Estimated duration 60 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) BRIAN WOOD / Ph: (303) 293-1000	Date 06/14/2025
Title Permitting Agent		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 09/26/2025
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 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.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 09/26/2025

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-55836	Pool Code 98185	Pool Name WC-025 G-09 S253502B; LWR BONE SPRING
Property Code 335288	Property Name SEINFELD YADA FEDERAL UNIT	Well Number 112H
OGRID No. 332195	Operator Name CIVITAS PERMIAN OPERATING, LLC	Ground Level Elevation 3252'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	35	24-S	35-E	-	238' S	2278' W	N 32.1673759	W 103.3394841	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	26	24-S	35-E	-	5' N	1870' W	N 32.1957430	W 103.3408128	LEA

Dedicated Acres 320.00	Infill or Defining Well Defining	Defining Well API 30-025-xxxxx (112H)	Overlapping Spacing Unit (Y/N) N	Consolidated Code U
Order Numbers Unknown			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	35	24-S	35-E	-	100' S	1870' W	N 32.1669977	W 103.3408038	LEA

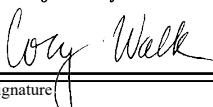
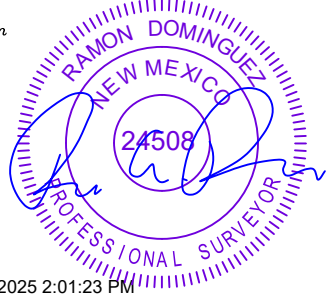
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	35	24-S	35-E	-	100' S	1870' W	N 32.1669977	W 103.3408038	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
C	26	24-S	35-E	-	100' N	1870' W	N 32.1954819	W 103.3408120	LEA

Unitized Area or Area of Uniform Intrest Y	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3252'
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OPERATOR CERTIFICATION <i>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.</i> <i>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.</i>  06-06-25		SURVEYORS CERTIFICATION <i>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.</i>  5/22/2025 2:01:23 PM	
Signature Cory Walk		Signature and Seal of Professional Surveyor	
Date		Date	
Print Name cory@permitswest.com		Certificate Number	Date of Survey 01/25/2025
E-mail Address			

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	
Property Name and Well Number SEINFELD YADA FEDERAL UNIT 112H			

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=848865 Y=426046
LAT.: N 32.1673759
LONG.: W 103.3394841
NAD 1927
X=807678 Y=425988
LAT.: N 32.1672495
LONG.: W 103.3390182
238' FSL 2278' FWL

**KICK OFF POINT (KOP)/
FIRST TAKE POINT (FTP)**

NEW MEXICO EAST
NAD 1983
X=848458 Y=425905
LAT.: N 32.1669977
LONG.: W 103.3408038
NAD 1927
X=807271 Y=425846
LAT.: N 32.1668713
LONG.: W 103.3403379
100' FSL 1870' FWL

FED PERF. POINT (FPP1)

NEW MEXICO EAST
NAD 1983
X=848433 Y=428447
LAT.: N 32.1739842
LONG.: W 103.3408058
NAD 1927
X=807247 Y=428388
LAT.: N 32.1738578
LONG.: W 103.3403396
2642' FSL 1868' FWL

FED PERF. POINT (FPP2)

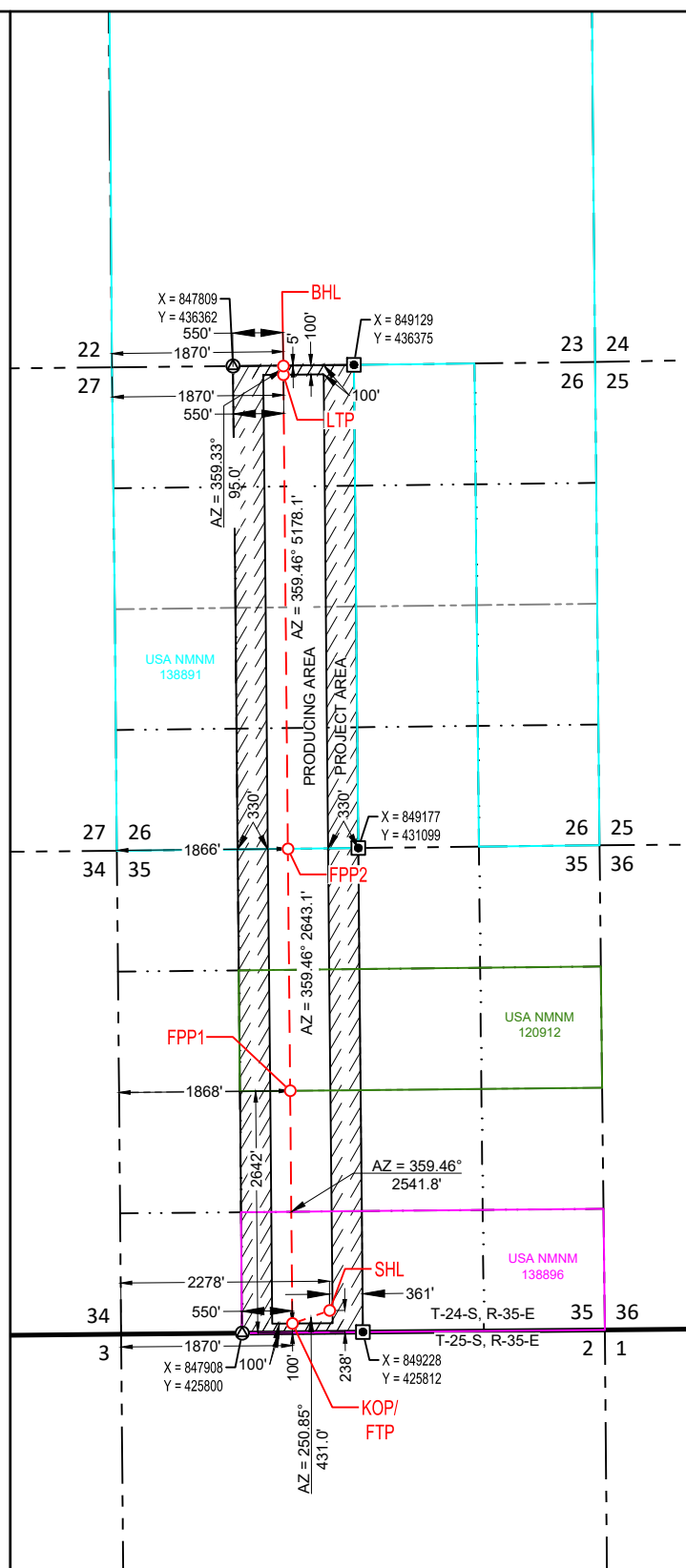
NEW MEXICO EAST
NAD 1983
X=848408 Y=431090
LAT.: N 32.1812492
LONG.: W 103.3408079
NAD 1927
X=807222 Y=431031
LAT.: N 32.1811228
LONG.: W 103.3403413
0' FNL 1866' FWL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=848359 Y=436268
LAT.: N 32.1954819
LONG.: W 103.3408120
NAD 1927
X=807173 Y=436209
LAT.: N 32.1953556
LONG.: W 103.3403446
100' FNL 1870' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=848358 Y=436363
LAT.: N 32.1957430
LONG.: W 103.3408128
NAD 1927
X=807172 Y=436304
LAT.: N 32.1956167
LONG.: W 103.3403454
5' FNL 1870' FWL

**SURVEYORS CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
01/25/2025

Date of Survey

Signature and Seal of Professional Surveyor:



6/9/2025 8:29:22 AM

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: CIVITAS PERMIAN OPERATING, LLC **OGRID:** 332195 **Date:** 06/09/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
<u>SEE ATTACHED</u>						

IV. Central Delivery Point Name: YADA E2W2 CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
<u>SEE ATTACHED</u>						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices


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

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

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

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

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 06/09/2025
Phone: (505) 466-8120
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Wells: Seinfeld Yada Federal Unit E2W2 Pad

Well Name	API	ULSTR	Footages	Anticipated Oil (BBL/D)	Anticipated Gas (MCF/D)	Anticipated Produced Water (BBL/D)
Seinfeld Yada Federal Unit #111H	TBD	N-35-24S-35E	213' FSL/2278' FWL	943	1740	1796
Seinfeld Yada Federal Unit #112H	TBD	N-35-24S-35E	238' FSL/2278' FWL	943	1740	1796
Seinfeld Yada Federal Unit #113H	TBD	N-35-24S-35E	238' FSL/2303' FWL	943	1740	1796
Seinfeld Yada Federal Unit #114H	TBD	N-35-24S-35E	213' FSL/2303' FWL	943	1740	1796

V. Anticipated Schedule: Seinfeld Yada Federal Unit E2W2 Pad

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Seinfeld Yada Federal Unit #111H	TBD	4/7/2026	7/6/2026	10/4/2026	10/24/2026	11/13/2026
Seinfeld Yada Federal Unit #112H	TBD	4/10/2026	7/9/2026	10/7/2026	10/27/2026	11/16/2026
Seinfeld Yada Federal Unit #113H	TBD	4/13/2026	7/12/2026	10/10/2026	10/30/2026	11/19/2026
Seinfeld Yada Federal Unit #114H	TBD	4/16/2026	7/15/2026	10/13/2026	11/2/2026	11/22/2026



Civitas Permian Operating Natural Gas Management Plan

VI. Separation Equipment:

Each surface facility design includes the following process equipment: Multiphase test measurement per upstream pad, 3-phase separators, a sales gas scrubber, heater treaters, a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP - combined). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the flare system. Aboveground steel oil tanks & water tanks will be fitted with 32 oz thief hatches as well as PRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. Operational Practices:

- During drilling operations, gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergencies, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified emergencies as mentioned in the BLM Waste Prevention Rule.



- To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. Best Management Practices:

When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.



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

Drilling Plan Data Report

09/26/2025

APD ID: 10400105406

Submission Date: 06/14/2025

Highlighted data
reflects the most
recent changes

Operator Name: CIVITAS PERMIAN OPERATING LLC

Well Name: SEINFELD YADA FEDERAL UNIT

Well Number: 112H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16488550	QUATERNARY	3252	0	0	OTHER : None	NONE	N
16488551	RUSTLER	2439	813	813	ANHYDRITE, DOLOMITE	OTHER : Salt	N
16488552	SALADO	2072	1180	1180	HALITE	OTHER : Salt	N
16488553	BELL CANYON	-1862	5114	5125	SANDSTONE	OTHER : Salt	N
16488554	CHERRY CANYON	-2752	6004	6019	SANDSTONE	NONE	N
16488555	BRUSHY CANYON LOWER	-5345	8597	8619	SANDSTONE	NATURAL GAS, OIL	N
16488556	AVALON SAND	-5581	8833	8855	LIMESTONE, OTHER, SHALE : Upper	NATURAL GAS	N
16488557	AVALON SAND	-5861	9113	9135	LIMESTONE, OTHER : Middle	NATURAL GAS, OIL	N
16488558	AVALON SAND	-6435	9687	9712	LIMESTONE, OTHER, SHALE : Lower	NATURAL GAS, OIL	N
16488559	BONE SPRING 1ST	-6817	10069	10261	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 20000

Equipment: At 20,379', a 5M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. Also present will be an accumulator that meets the requirements of 43 CFR 3172 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in 43 CFR 3172. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

Requesting Variance? YES

Variance request: Mutli-bowl speed head: Civitas requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. • CoFlex line for Choke/BOP: Civitas requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. • Batch Drilling: Civitas requests a variance to have the

Operator Name: CIVITAS PERMIAN OPERATING LLC**Well Name:** SEINFELD YADA FEDERAL UNIT**Well Number:** 112H

option of batch drilling this well with other wells on the same pad. If this well is batch drilled, after cementing a casing string, a 5M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. Civitas Operating requests to only test BOP connection breaks after rig walks per the procedures and stipulations set forth in the "BOP Shell Test Procedure" document attached. • Offline Cementing: Civitas requests a variance for the option to offline cement intermediate casing strings set higher than Wolfcamp A (which applies to all First Tee wells during the drilling campaign). To execute offline cement jobs safely, the following precautions and equipment are detailed below:

- o During the drilling of the 11" hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online.
- o Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly (diagram below). Returns from the manifold will be taken to an auxiliary mud-gas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged).

Testing Procedure: After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 250 psi low, 2500 psi high.

Choke Diagram Attachment:

5M_Choke_Diagram_20250610114442.pdf

BOP Diagram Attachment:

5M_BOP_Diagram_20250610114450.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	11.75	NEW	API	N	0	1155	0	1155	3252	2097	1155	J-55	42	BUTT	1.13	1.15	DRY	1.8	DRY	1.8
2	INTERMEDIATE	11	8.625	NEW	API	N	0	4975	0	4964	3252	-1712	4975	HCL-80	32	BUTT	1.13	1.15	DRY	1.8	DRY	1.8
3	PRODUCTION	7.875	5.5	NEW	NON API	N	0	20379	0	10013	3252	-6761	20379	OTHER - P11 ORY	20	OTHER - GB CD	1.13	1.15	DRY	1.8	DRY	1.8

Casing Attachments

Operator Name: CIVITAS PERMIAN OPERATING LLC

Well Name: SEINFELD YADA FEDERAL UNIT

Well Number: 112H

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20250610114527.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20250610114555.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Casing_Spec_5.5_GBCD_20250610114630.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20250610114640.pdf

Section 4 - Cement

Operator Name: CIVITAS PERMIAN OPERATING LLC**Well Name:** SEINFELD YADA FEDERAL UNIT**Well Number:** 112H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	855	431	1.72	13.5	742	100	Class C	Additives + LCM
SURFACE	Tail		855	1155	196	1.33	14.8	260	100	Class C	Additives + LCM
INTERMEDIATE	Lead		0	3975	475	3.66	10.5	1739	200	Class C	Additives + LCM
INTERMEDIATE	Tail		3975	4975	219	1.16	13.2	254	100	Class C	Additives + LCM
PRODUCTION	Lead		4475	9527	263	3.93	10.5	1035	20	Class C	Additives + LCM
PRODUCTION	Tail		9527	2037 9	1567	1.44	13.2	2256	20	Class H	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with 43 CFR 3172:****Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:****Describe what will be on location to control well or mitigate other conditions:** All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions.**Describe the mud monitoring system utilized:** Electronic Totco mud monitor system complying with 43 CFR 3172 will be used.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1155	SPUD MUD	8.4	8.4							
1155	4975	SALT SATURATED	10	10							

Operator Name: CIVITAS PERMIAN OPERATING LLC**Well Name:** SEINFELD YADA FEDERAL UNIT**Well Number:** 112H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4975	2037 9	OIL-BASED MUD	9	9.5							

Section 6 - Test, Logging, Coring

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

Electric Logging Program: No open-hole logs are planned at this time. GR will be collected while drilling through the MWD tools from KOP to TD. CBL w/ CCL from as far as gravity will let it fall to TOC.

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

GAMMA RAY LOG,CEMENT BOND LOG,

Coring operation description for the well:

No DSTs or cores are planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3836

Anticipated Surface Pressure: 1613

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Yada_E2W2_Phase2_H2S_Plan_20250610114941.pdf

Operator Name: CIVITAS PERMIAN OPERATING LLC

Well Name: SEINFELD YADA FEDERAL UNIT

Well Number: 112H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Yada_112H_Directional_Plan_20250610114956.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Yada_112H_Anticollision_Report_20250610115008.pdf

Wellhead_Diagram_20250610115021.pdf

CoFlex_Hose_Certs_20250610115027.pdf

BOP_Shell_Test_Procedure_20250610115038.pdf

Yada_WMP_20250610115052.pdf

Yada_112H_Drill_Plan_v2_20250710092905.pdf

Other Variance request(s)?: N

Other Variance attachment:

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
SEINFELD YADA	111H		NMNM138891	NMNM141169X	CIVITAS
SEINFELD YADA	112H		NMNM138896	NMNM141169X	CIVITAS
SEINFELD YADA	113H		NMNM138896	NMNM141169X	CIVITAS
SEINFELD YADA	114H		NMNM138896	NMNM141169X	CIVITAS

Notice of Intent

Sundry ID: 2882359

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/12/2025

Time Sundry Submitted: 07:52

Date proposed operation will begin: 11/12/2025

Procedure Description: Civitas requests a variance for the option to offline cement the surface and intermediate casing strings, both of which are set higher than Wolfcamp A (which applies to all Yada wells during the drilling campaign). To execute offline cement jobs safely, the following precautions and equipment are detailed below: For surface casing, no change to cement procedures to offline cement surface casing is anticipated. For intermediate casing, during the drilling of the 10 5/8" hole section (all intermediate strings will be TD'd above the WCA top), hole conditions will be monitored and addressed to ensure for a successful casing run. In the event hole conditions change after running intermediate casing and/or the well is not in a static state, Civitas Resources can elect to pump the cement job online. Equipment for the offline cement job will include a tested/charted 5M working pressure dual manifold cement head system will be used with a standard offline cement tool that is packed off and tested through a port between the upper valve and packoff assembly. Returns from the manifold will be taken to an auxiliary mud-gas separator during cement job. The operational scope is described in the following steps: the casing will be landed on the mandrel, pull tested, packoff installed and tested to 80% of collapse of casing on the top and bottom seals, nipple down BOP and install offline cement tool/manifold. The offline cement tool screws into the top of the packoff assembly. During the cement job, all returns will be taken through the A-Section valve (flanged).

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: NICOLE LEE

Signed on: NOV 12, 2025 07:51 AM

Name: CIVITAS PERMIAN OPERATING LLC

Title: Regulatory Specialist III

Street Address: 9950 WOODLOCH FOREST DRIVE STE 1400

City: THE WOODLANDS **State:** TX

Phone: (281) 740-9416

Email address: NLEE@CIVIRESOURCES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 12/22/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address 3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Batch Well Data

SEINFELD YADA FEDERAL UNIT 111H, US Well Number: null, Case Number: NMNM141169X, Lease Number: NMNM138891,
Operator:CIVITAS PERMIAN OPERATING LLC

SEINFELD YADA FEDERAL UNIT 112H, US Well Number: null, Case Number: NMNM141169X, Lease Number: NMNM138896,
Operator:CIVITAS PERMIAN OPERATING LLC

SEINFELD YADA FEDERAL UNIT 113H, US Well Number: null, Case Number: NMNM141169X, Lease Number: NMNM138896,
Operator:CIVITAS PERMIAN OPERATING LLC

SEINFELD YADA FEDERAL UNIT 114H, US Well Number: null, Case Number: NMNM141169X, Lease Number: NMNM138896,
Operator:CIVITAS PERMIAN OPERATING LLC

Wellbore: Wellbore #1
Design: Design #1
Date: 16:39, April 02 2025

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

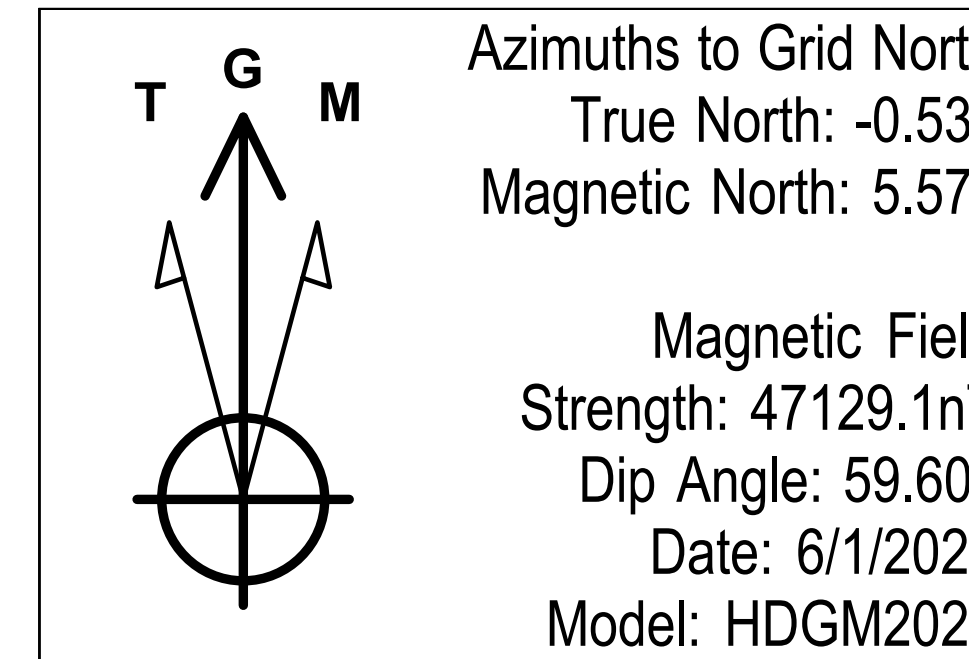
To convert a Magnetic Direction to a Grid Direction, Add 5.571°
 To convert a Magnetic Direction to a True Direction, Add 6.100° East
 To convert a True Direction to a Grid Direction, Subtract 0.529°

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FPP1 - Yada Fed Com 112H	10094.04	1079.47	-418.67	427125.90	848446.00	32.170353	-103.340805
FPP2 - Yada Fed Com 112H	10059.45	5043.33	-456.22	431089.76	848408.45	32.181249	-103.340808
KOP/FTP - Yada Fed Com 112H	9739.57	-141.37	-407.11	425905.06	848457.55	32.166998	-103.340804
LTP - Yada Fed Com 112H	10014.26	10221.22	-505.27	436267.64	848359.40	32.195482	-103.340812
PBHL - Yada Fed Com 112H	10013.43	10316.21	-506.38	436362.64	848358.29	32.195743	-103.340813

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00°/100' Build
2257.03	5.14	249.37	2256.69	-4.06	-10.78	2.00	249.369	-3.96	Hold 5.14° Inc, 249.37° Azm
7765.81	5.14	249.37	7743.31	-177.97	-472.72	0.00	0.000	-173.48	Begin 2.00°/100' Drop
8022.85	0.00	0.00	8000.00	-182.03	-483.51	2.00	180.000	-177.44	Begin Vertical Hold
9549.95	0.00	0.00	9527.10	-182.03	-483.51	0.00	0.000	-177.44	Begin 10.00°/100' Build
10454.95	90.50	5.50	10100.04	393.26	-428.11	10.00	5.500	397.31	Hold 90.50° Inc, Begin 2.00°/100' Turn
10757.13	90.50	359.46	10097.40	695.01	-415.05	2.00	-89.974	698.92	Hold 359.46° Azm
20379.13	90.50	359.46	10013.43	10316.21	-506.38	0.00	0.000	10320.55	PBHL



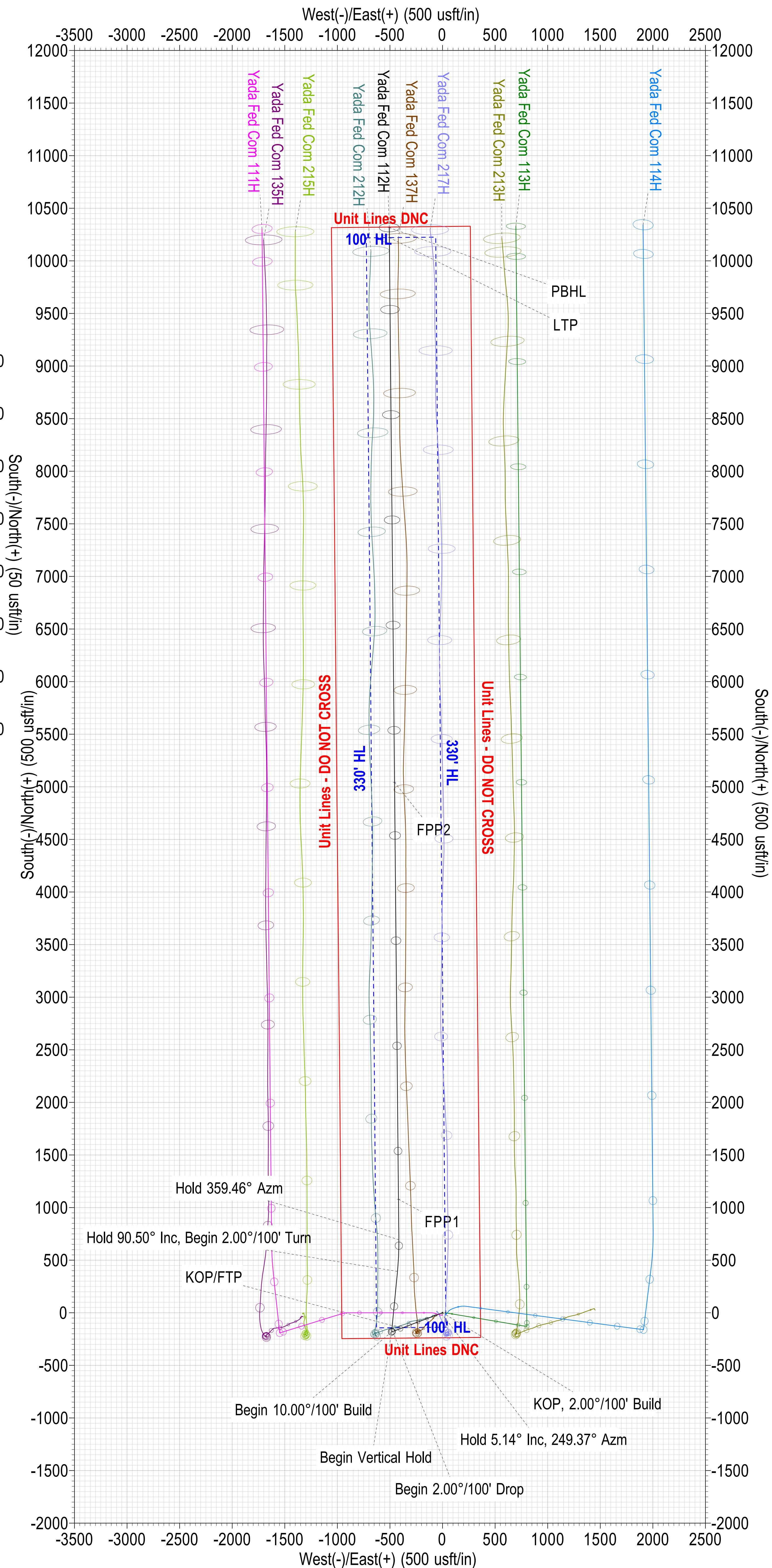
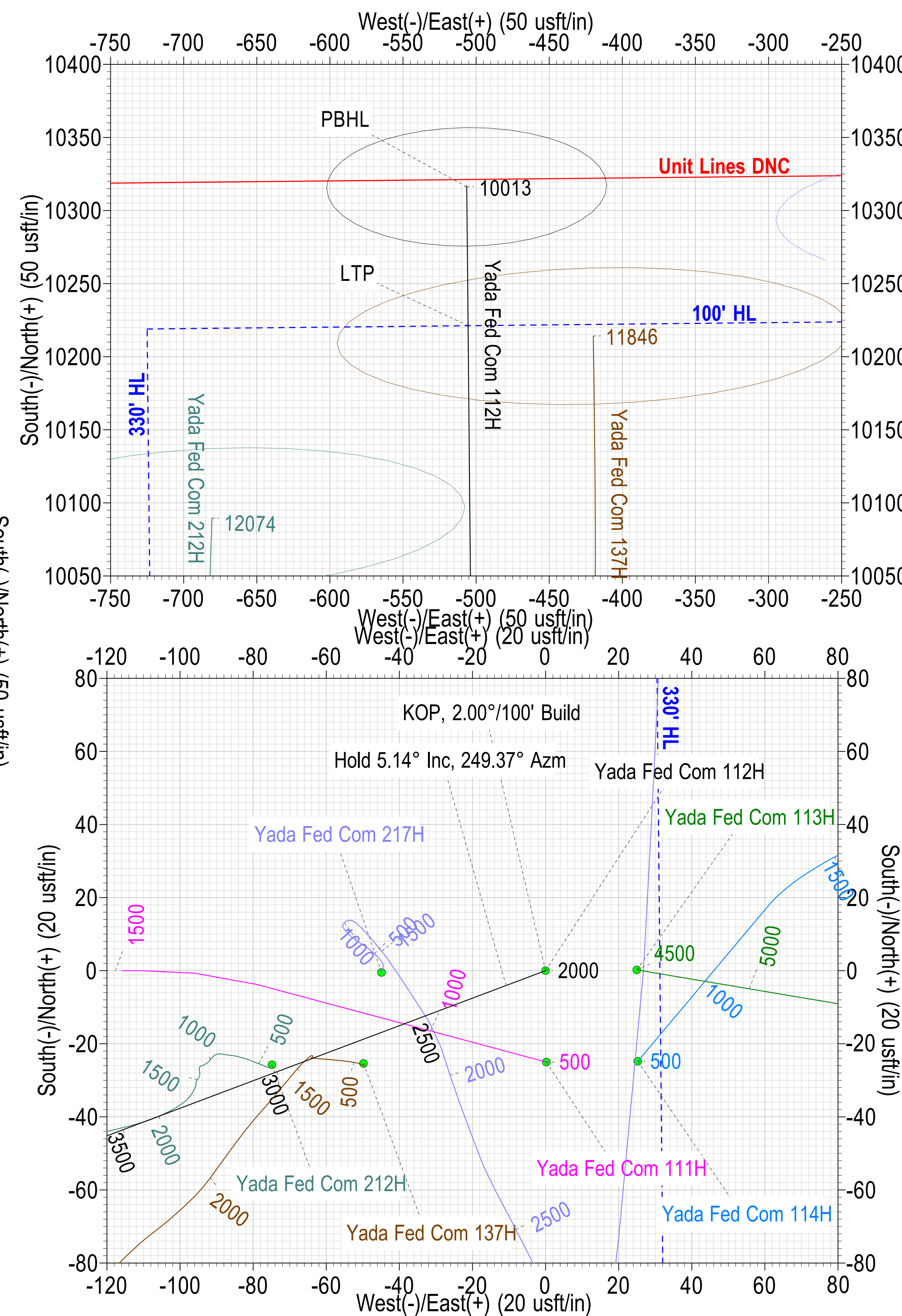
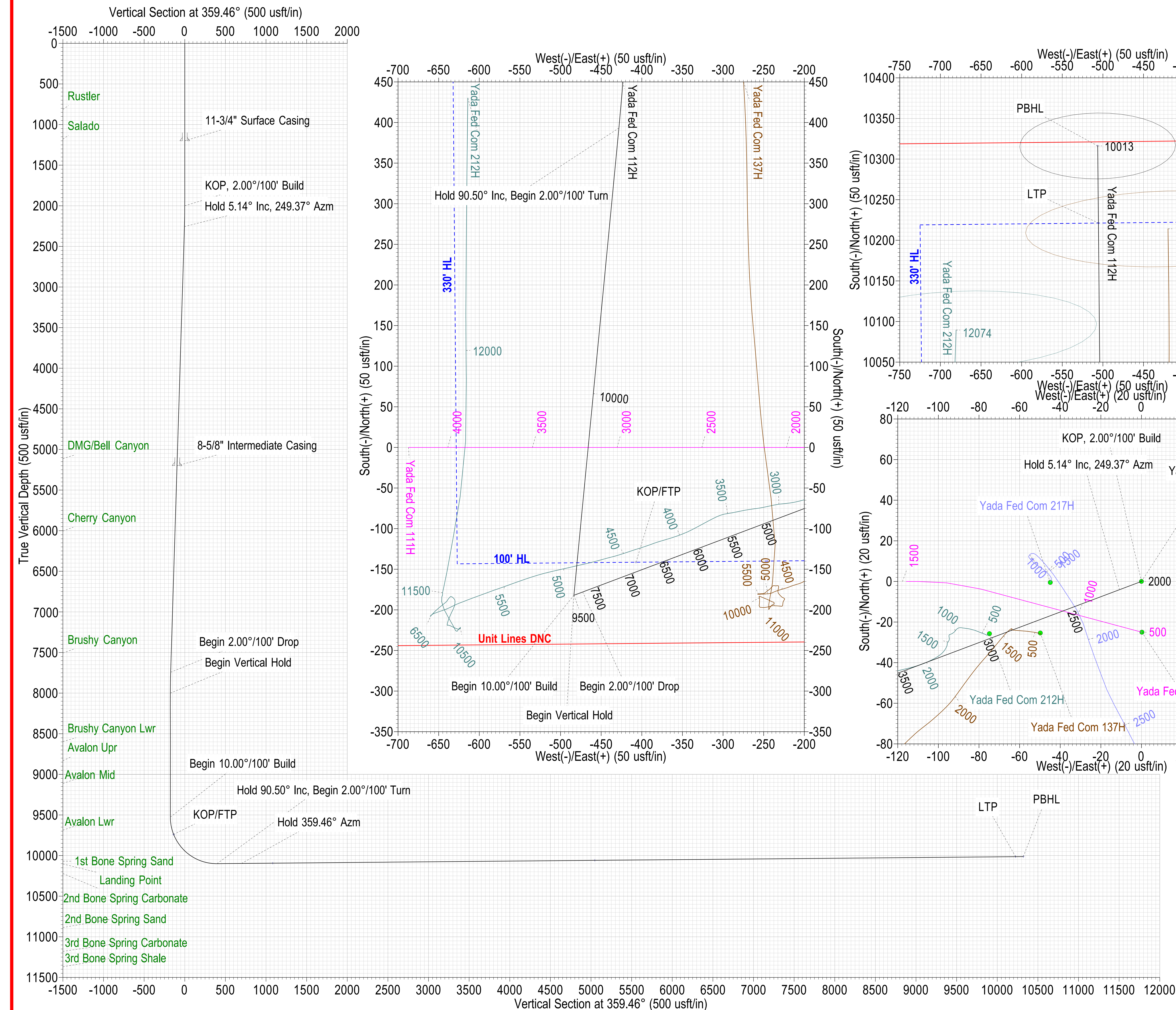
WELL DETAILS: Yada Fed Com 112H

		GL @ 3252.00	Well @ 3278.50usft (26.5' RKB)	
+N/-S	+E/-W	Northing	Easting	Latitude
0.00	0.00	426046.43	848864.67	32.167376
				-103.339484



SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	20379.13	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR





Civitas Permian Operating, LLC

Lea County, New Mexico (NAD 83)

Yada Fed Com (111H, 112H, 113H, 114H)

Yada Fed Com 112H

Wellbore #1

Plan: Design #1

Standard Planning Report

02 April, 2025




MS Directional
 Planning Report


Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Yada Fed Com 112H
Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico (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	Yada Fed Com (111H, 112H, 113H, 114H)		
Site Position:		Northing:	426,021.43 usft
From:	Lat/Long	Easting:	848,864.92 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.167307
		Longitude:	-103.339484

Well	Yada Fed Com 112H					
Well Position	+N/-S	0.00 usft	Northing:	426,046.43 usft	Latitude:	32.167376
	+E/-W	0.00 usft	Easting:	848,864.67 usft	Longitude:	-103.339484
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,252.00 usft	
Grid Convergence:	0.529 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	6/1/2025	6.100	59.600	47,129.100

Design	Design #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	359.46	

Plan Survey Tool Program	Date	4/2/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,379.13	Design #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	
				OWSG MWD + IFR1 + Sag	


MS Directional
 Planning Report


Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Yada Fed Com 112H
Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,257.03	5.14	249.37	2,256.69	-4.06	-10.78	2.00	2.00	0.00	249.369	
7,765.81	5.14	249.37	7,743.31	-177.97	-472.72	0.00	0.00	0.00	0.000	
8,022.85	0.00	0.00	8,000.00	-182.03	-483.51	2.00	-2.00	0.00	180.000	
9,549.95	0.00	0.00	9,527.10	-182.03	-483.51	0.00	0.00	0.00	0.000	
10,454.95	90.50	5.50	10,100.04	393.26	-428.11	10.00	10.00	0.00	5.500	
10,757.13	90.50	359.46	10,097.40	695.01	-415.05	2.00	0.00	-2.00	-89.974	
20,379.13	90.50	359.46	10,013.43	10,316.21	-506.38	0.00	0.00	0.00	0.000	PBHL - Yada Fed C


MS Directional
 Planning Report


Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Yada Fed Com 112H
Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
813.50	0.00	0.00	813.50	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,179.50	0.00	0.00	1,179.50	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
11-3/4" Surface Casing									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 2.00°/100' Build									
2,100.00	2.00	249.37	2,099.98	-0.61	-1.63	-0.60	2.00	2.00	0.00
2,200.00	4.00	249.37	2,199.84	-2.46	-6.53	-2.40	2.00	2.00	0.00
2,257.03	5.14	249.37	2,256.69	-4.06	-10.78	-3.96	2.00	2.00	0.00
Hold 5.14° Inc, 249.37° Azm									
2,300.00	5.14	249.37	2,299.48	-5.42	-14.39	-5.28	0.00	0.00	0.00
2,400.00	5.14	249.37	2,399.08	-8.57	-22.77	-8.36	0.00	0.00	0.00
2,500.00	5.14	249.37	2,498.68	-11.73	-31.16	-11.43	0.00	0.00	0.00
2,600.00	5.14	249.37	2,598.28	-14.89	-39.54	-14.51	0.00	0.00	0.00
2,700.00	5.14	249.37	2,697.87	-18.04	-47.93	-17.59	0.00	0.00	0.00
2,800.00	5.14	249.37	2,797.47	-21.20	-56.31	-20.67	0.00	0.00	0.00
2,900.00	5.14	249.37	2,897.07	-24.36	-64.70	-23.74	0.00	0.00	0.00
3,000.00	5.14	249.37	2,996.67	-27.52	-73.09	-26.82	0.00	0.00	0.00
3,100.00	5.14	249.37	3,096.26	-30.67	-81.47	-29.90	0.00	0.00	0.00
3,200.00	5.14	249.37	3,195.86	-33.83	-89.86	-32.98	0.00	0.00	0.00
3,300.00	5.14	249.37	3,295.46	-36.99	-98.24	-36.05	0.00	0.00	0.00
3,400.00	5.14	249.37	3,395.06	-40.14	-106.63	-39.13	0.00	0.00	0.00
3,500.00	5.14	249.37	3,494.66	-43.30	-115.01	-42.21	0.00	0.00	0.00
3,600.00	5.14	249.37	3,594.25	-46.46	-123.40	-45.28	0.00	0.00	0.00
3,700.00	5.14	249.37	3,693.85	-49.61	-131.78	-48.36	0.00	0.00	0.00
3,800.00	5.14	249.37	3,793.45	-52.77	-140.17	-51.44	0.00	0.00	0.00
3,900.00	5.14	249.37	3,893.05	-55.93	-148.55	-54.52	0.00	0.00	0.00
4,000.00	5.14	249.37	3,992.64	-59.09	-156.94	-57.59	0.00	0.00	0.00
4,100.00	5.14	249.37	4,092.24	-62.24	-165.33	-60.67	0.00	0.00	0.00
4,200.00	5.14	249.37	4,191.84	-65.40	-173.71	-63.75	0.00	0.00	0.00
4,300.00	5.14	249.37	4,291.44	-68.56	-182.10	-66.83	0.00	0.00	0.00
4,400.00	5.14	249.37	4,391.04	-71.71	-190.48	-69.90	0.00	0.00	0.00
4,500.00	5.14	249.37	4,490.63	-74.87	-198.87	-72.98	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Yada Fed Com 112H
Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
4,600.00	5.14	249.37	4,590.23	-78.03	-207.25	-76.06	0.00	0.00	0.00
4,700.00	5.14	249.37	4,689.83	-81.19	-215.64	-79.13	0.00	0.00	0.00
4,800.00	5.14	249.37	4,789.43	-84.34	-224.02	-82.21	0.00	0.00	0.00
4,900.00	5.14	249.37	4,889.02	-87.50	-232.41	-85.29	0.00	0.00	0.00
5,000.00	5.14	249.37	4,988.62	-90.66	-240.80	-88.37	0.00	0.00	0.00
5,100.00	5.14	249.37	5,088.22	-93.81	-249.18	-91.44	0.00	0.00	0.00
5,125.38	5.14	249.37	5,113.50	-94.61	-251.31	-92.22	0.00	0.00	0.00
DMG/Bell Canyon									
5,200.00	5.14	249.37	5,187.82	-96.97	-257.57	-94.52	0.00	0.00	0.00
5,212.23	5.14	249.37	5,200.00	-97.36	-258.59	-94.90	0.00	0.00	0.00
8-5/8" Intermediate Casing									
5,300.00	5.14	249.37	5,287.42	-100.13	-265.95	-97.60	0.00	0.00	0.00
5,400.00	5.14	249.37	5,387.01	-103.28	-274.34	-100.68	0.00	0.00	0.00
5,500.00	5.14	249.37	5,486.61	-106.44	-282.72	-103.75	0.00	0.00	0.00
5,600.00	5.14	249.37	5,586.21	-109.60	-291.11	-106.83	0.00	0.00	0.00
5,700.00	5.14	249.37	5,685.81	-112.76	-299.49	-109.91	0.00	0.00	0.00
5,800.00	5.14	249.37	5,785.40	-115.91	-307.88	-112.98	0.00	0.00	0.00
5,900.00	5.14	249.37	5,885.00	-119.07	-316.26	-116.06	0.00	0.00	0.00
6,000.00	5.14	249.37	5,984.60	-122.23	-324.65	-119.14	0.00	0.00	0.00
6,019.98	5.14	249.37	6,004.50	-122.86	-326.33	-119.75	0.00	0.00	0.00
Cherry Canyon									
6,100.00	5.14	249.37	6,084.20	-125.38	-333.04	-122.22	0.00	0.00	0.00
6,200.00	5.14	249.37	6,183.80	-128.54	-341.42	-125.29	0.00	0.00	0.00
6,300.00	5.14	249.37	6,283.39	-131.70	-349.81	-128.37	0.00	0.00	0.00
6,400.00	5.14	249.37	6,382.99	-134.85	-358.19	-131.45	0.00	0.00	0.00
6,500.00	5.14	249.37	6,482.59	-138.01	-366.58	-134.53	0.00	0.00	0.00
6,600.00	5.14	249.37	6,582.19	-141.17	-374.96	-137.60	0.00	0.00	0.00
6,700.00	5.14	249.37	6,681.78	-144.33	-383.35	-140.68	0.00	0.00	0.00
6,800.00	5.14	249.37	6,781.38	-147.48	-391.73	-143.76	0.00	0.00	0.00
6,900.00	5.14	249.37	6,880.98	-150.64	-400.12	-146.83	0.00	0.00	0.00
7,000.00	5.14	249.37	6,980.58	-153.80	-408.51	-149.91	0.00	0.00	0.00
7,100.00	5.14	249.37	7,080.18	-156.95	-416.89	-152.99	0.00	0.00	0.00
7,200.00	5.14	249.37	7,179.77	-160.11	-425.28	-156.07	0.00	0.00	0.00
7,300.00	5.14	249.37	7,279.37	-163.27	-433.66	-159.14	0.00	0.00	0.00
7,400.00	5.14	249.37	7,378.97	-166.43	-442.05	-162.22	0.00	0.00	0.00
7,500.00	5.14	249.37	7,478.57	-169.58	-450.43	-165.30	0.00	0.00	0.00
7,528.05	5.14	249.37	7,506.50	-170.47	-452.78	-166.16	0.00	0.00	0.00
Brushy Canyon									
7,600.00	5.14	249.37	7,578.16	-172.74	-458.82	-168.38	0.00	0.00	0.00
7,700.00	5.14	249.37	7,677.76	-175.90	-467.20	-171.45	0.00	0.00	0.00
7,765.81	5.14	249.37	7,743.31	-177.97	-472.72	-173.48	0.00	0.00	0.00
Begin 2.00°/100' Drop									
7,800.00	4.46	249.37	7,777.38	-178.98	-475.40	-174.46	2.00	-2.00	0.00
7,900.00	2.46	249.37	7,877.19	-181.11	-481.04	-176.53	2.00	-2.00	0.00
8,000.00	0.46	249.37	7,977.15	-182.00	-483.42	-177.40	2.00	-2.00	0.00
8,022.85	0.00	0.00	8,000.00	-182.03	-483.51	-177.44	2.00	-2.00	0.00
Begin Vertical Hold									
8,100.00	0.00	0.00	8,077.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,200.00	0.00	0.00	8,177.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,300.00	0.00	0.00	8,277.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,400.00	0.00	0.00	8,377.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,500.00	0.00	0.00	8,477.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,600.00	0.00	0.00	8,577.15	-182.03	-483.51	-177.44	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Yada Fed Com 112H
Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
8,619.35	0.00	0.00	8,596.50	-182.03	-483.51	-177.44	0.00	0.00	0.00
Brushy Canyon Lwr									
8,700.00	0.00	0.00	8,677.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,800.00	0.00	0.00	8,777.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
8,855.35	0.00	0.00	8,832.50	-182.03	-483.51	-177.44	0.00	0.00	0.00
Avalon Upr									
8,900.00	0.00	0.00	8,877.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,000.00	0.00	0.00	8,977.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,100.00	0.00	0.00	9,077.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,135.35	0.00	0.00	9,112.50	-182.03	-483.51	-177.44	0.00	0.00	0.00
Avalon Mid									
9,200.00	0.00	0.00	9,177.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,300.00	0.00	0.00	9,277.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,400.00	0.00	0.00	9,377.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,500.00	0.00	0.00	9,477.15	-182.03	-483.51	-177.44	0.00	0.00	0.00
9,549.95	0.00	0.00	9,527.10	-182.03	-483.51	-177.44	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,600.00	5.01	5.50	9,577.09	-179.86	-483.30	-175.26	10.00	10.00	0.00
9,650.00	10.01	5.50	9,626.65	-173.36	-482.67	-168.77	10.00	10.00	0.00
9,700.00	15.01	5.50	9,675.44	-162.59	-481.63	-158.01	10.00	10.00	0.00
9,712.52	16.26	5.50	9,687.50	-159.23	-481.31	-154.65	10.00	10.00	0.00
Avalon Lwr									
9,750.00	20.01	5.50	9,723.11	-147.62	-480.19	-143.06	10.00	10.00	0.00
9,800.00	25.01	5.50	9,769.29	-128.58	-478.36	-124.03	10.00	10.00	0.00
9,850.00	30.01	5.50	9,813.62	-105.60	-476.15	-101.07	10.00	10.00	0.00
9,900.00	35.01	5.50	9,855.78	-78.86	-473.57	-74.36	10.00	10.00	0.00
9,950.00	40.01	5.50	9,895.43	-48.57	-470.66	-44.10	10.00	10.00	0.00
10,000.00	45.01	5.50	9,932.28	-14.95	-467.42	-10.52	10.00	10.00	0.00
10,050.00	50.01	5.50	9,966.05	21.73	-463.89	26.13	10.00	10.00	0.00
10,100.00	55.01	5.50	9,996.47	61.21	-460.09	65.57	10.00	10.00	0.00
10,150.00	60.01	5.50	10,023.32	103.17	-456.04	107.50	10.00	10.00	0.00
10,200.00	65.01	5.50	10,046.40	147.31	-451.79	151.59	10.00	10.00	0.00
10,250.00	70.01	5.50	10,065.52	193.27	-447.37	197.51	10.00	10.00	0.00
10,261.98	71.20	5.50	10,069.50	204.52	-446.29	208.75	10.00	10.00	0.00
1st Bone Spring Sand									
10,300.00	75.01	5.50	10,080.55	240.73	-442.80	244.92	10.00	10.00	0.00
10,350.00	80.01	5.50	10,091.36	289.30	-438.12	293.45	10.00	10.00	0.00
10,400.00	85.01	5.50	10,097.88	338.63	-433.37	342.73	10.00	10.00	0.00
10,454.95	90.50	5.50	10,100.04	393.26	-428.11	397.31	10.00	10.00	0.00
Hold 90.50° Inc, Begin 2.00°/100' Turn									
10,500.00	90.50	4.60	10,099.64	438.14	-424.15	442.15	2.00	0.00	-2.00
10,600.00	90.50	2.60	10,098.77	537.93	-417.87	541.88	2.00	0.00	-2.00
10,700.00	90.50	0.60	10,097.90	637.88	-415.08	641.80	2.00	0.00	-2.00
10,757.13	90.50	359.46	10,097.40	695.01	-415.05	698.92	2.00	0.00	-2.00
Hold 359.46° Azm									
10,800.00	90.50	359.46	10,097.02	737.88	-415.46	741.79	0.00	0.00	0.00
10,900.00	90.50	359.46	10,096.15	837.87	-416.41	841.78	0.00	0.00	0.00
11,000.00	90.50	359.46	10,095.28	937.86	-417.36	941.78	0.00	0.00	0.00
11,100.00	90.50	359.46	10,094.40	1,037.85	-418.31	1,041.78	0.00	0.00	0.00
11,200.00	90.50	359.46	10,093.53	1,137.84	-419.26	1,141.77	0.00	0.00	0.00
11,300.00	90.50	359.46	10,092.66	1,237.84	-420.21	1,241.77	0.00	0.00	0.00
11,400.00	90.50	359.46	10,091.79	1,337.83	-421.15	1,341.77	0.00	0.00	0.00
11,500.00	90.50	359.46	10,090.91	1,437.82	-422.10	1,441.76	0.00	0.00	0.00



MS Directional Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Yada Fed Com 112H
Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
11,600.00	90.50	359.46	10,090.04	1,537.81	-423.05	1,541.76	0.00	0.00	0.00
11,700.00	90.50	359.46	10,089.17	1,637.80	-424.00	1,641.75	0.00	0.00	0.00
11,800.00	90.50	359.46	10,088.30	1,737.79	-424.95	1,741.75	0.00	0.00	0.00
11,900.00	90.50	359.46	10,087.42	1,837.79	-425.90	1,841.75	0.00	0.00	0.00
12,000.00	90.50	359.46	10,086.55	1,937.78	-426.85	1,941.74	0.00	0.00	0.00
12,100.00	90.50	359.46	10,085.68	2,037.77	-427.80	2,041.74	0.00	0.00	0.00
12,200.00	90.50	359.46	10,084.81	2,137.76	-428.75	2,141.74	0.00	0.00	0.00
12,300.00	90.50	359.46	10,083.93	2,237.75	-429.70	2,241.73	0.00	0.00	0.00
12,400.00	90.50	359.46	10,083.06	2,337.75	-430.65	2,341.73	0.00	0.00	0.00
12,500.00	90.50	359.46	10,082.19	2,437.74	-431.60	2,441.72	0.00	0.00	0.00
12,600.00	90.50	359.46	10,081.32	2,537.73	-432.54	2,541.72	0.00	0.00	0.00
12,700.00	90.50	359.46	10,080.44	2,637.72	-433.49	2,641.72	0.00	0.00	0.00
12,800.00	90.50	359.46	10,079.57	2,737.71	-434.44	2,741.71	0.00	0.00	0.00
12,900.00	90.50	359.46	10,078.70	2,837.70	-435.39	2,841.71	0.00	0.00	0.00
13,000.00	90.50	359.46	10,077.82	2,937.70	-436.34	2,941.70	0.00	0.00	0.00
13,100.00	90.50	359.46	10,076.95	3,037.69	-437.29	3,041.70	0.00	0.00	0.00
13,200.00	90.50	359.46	10,076.08	3,137.68	-438.24	3,141.70	0.00	0.00	0.00
13,300.00	90.50	359.46	10,075.21	3,237.67	-439.19	3,241.69	0.00	0.00	0.00
13,400.00	90.50	359.46	10,074.33	3,337.66	-440.14	3,341.69	0.00	0.00	0.00
13,500.00	90.50	359.46	10,073.46	3,437.65	-441.09	3,441.69	0.00	0.00	0.00
13,600.00	90.50	359.46	10,072.59	3,537.65	-442.04	3,541.68	0.00	0.00	0.00
13,700.00	90.50	359.46	10,071.72	3,637.64	-442.99	3,641.68	0.00	0.00	0.00
13,800.00	90.50	359.46	10,070.84	3,737.63	-443.93	3,741.67	0.00	0.00	0.00
13,900.00	90.50	359.46	10,069.97	3,837.62	-444.88	3,841.67	0.00	0.00	0.00
14,000.00	90.50	359.46	10,069.10	3,937.61	-445.83	3,941.67	0.00	0.00	0.00
14,100.00	90.50	359.46	10,068.23	4,037.60	-446.78	4,041.66	0.00	0.00	0.00
14,200.00	90.50	359.46	10,067.35	4,137.60	-447.73	4,141.66	0.00	0.00	0.00
14,300.00	90.50	359.46	10,066.48	4,237.59	-448.68	4,241.66	0.00	0.00	0.00
14,400.00	90.50	359.46	10,065.61	4,337.58	-449.63	4,341.65	0.00	0.00	0.00
14,500.00	90.50	359.46	10,064.73	4,437.57	-450.58	4,441.65	0.00	0.00	0.00
14,600.00	90.50	359.46	10,063.86	4,537.56	-451.53	4,541.64	0.00	0.00	0.00
14,700.00	90.50	359.46	10,062.99	4,637.55	-452.48	4,641.64	0.00	0.00	0.00
14,800.00	90.50	359.46	10,062.12	4,737.55	-453.43	4,741.64	0.00	0.00	0.00
14,900.00	90.50	359.46	10,061.24	4,837.54	-454.38	4,841.63	0.00	0.00	0.00
15,000.00	90.50	359.46	10,060.37	4,937.53	-455.32	4,941.63	0.00	0.00	0.00
15,100.00	90.50	359.46	10,059.50	5,037.52	-456.27	5,041.63	0.00	0.00	0.00
15,200.00	90.50	359.46	10,058.63	5,137.51	-457.22	5,141.62	0.00	0.00	0.00
15,300.00	90.50	359.46	10,057.75	5,237.50	-458.17	5,241.62	0.00	0.00	0.00
15,400.00	90.50	359.46	10,056.88	5,337.50	-459.12	5,341.61	0.00	0.00	0.00
15,500.00	90.50	359.46	10,056.01	5,437.49	-460.07	5,441.61	0.00	0.00	0.00
15,600.00	90.50	359.46	10,055.14	5,537.48	-461.02	5,541.61	0.00	0.00	0.00
15,700.00	90.50	359.46	10,054.26	5,637.47	-461.97	5,641.60	0.00	0.00	0.00
15,800.00	90.50	359.46	10,053.39	5,737.46	-462.92	5,741.60	0.00	0.00	0.00
15,900.00	90.50	359.46	10,052.52	5,837.45	-463.87	5,841.59	0.00	0.00	0.00
16,000.00	90.50	359.46	10,051.64	5,937.45	-464.82	5,941.59	0.00	0.00	0.00
16,100.00	90.50	359.46	10,050.77	6,037.44	-465.76	6,041.59	0.00	0.00	0.00
16,200.00	90.50	359.46	10,049.90	6,137.43	-466.71	6,141.58	0.00	0.00	0.00
16,300.00	90.50	359.46	10,049.03	6,237.42	-467.66	6,241.58	0.00	0.00	0.00
16,400.00	90.50	359.46	10,048.15	6,337.41	-468.61	6,341.58	0.00	0.00	0.00
16,500.00	90.50	359.46	10,047.28	6,437.40	-469.56	6,441.57	0.00	0.00	0.00
16,600.00	90.50	359.46	10,046.41	6,537.40	-470.51	6,541.57	0.00	0.00	0.00
16,700.00	90.50	359.46	10,045.54	6,637.39	-471.46	6,641.56	0.00	0.00	0.00
16,800.00	90.50	359.46	10,044.66	6,737.38	-472.41	6,741.56	0.00	0.00	0.00
16,900.00	90.50	359.46	10,043.79	6,837.37	-473.36	6,841.56	0.00	0.00	0.00



MS Directional Planning Report



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Company:	Civitas Permian Operating, LLC	TVD Reference:	Well @ 3278.50usft (26.5' RKB)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
17,000.00	90.50	359.46	10,042.92	6,937.36	-474.31	6,941.55	0.00	0.00	0.00
17,100.00	90.50	359.46	10,042.05	7,037.35	-475.26	7,041.55	0.00	0.00	0.00
17,200.00	90.50	359.46	10,041.17	7,137.35	-476.21	7,141.55	0.00	0.00	0.00
17,300.00	90.50	359.46	10,040.30	7,237.34	-477.15	7,241.54	0.00	0.00	0.00
17,400.00	90.50	359.46	10,039.43	7,337.33	-478.10	7,341.54	0.00	0.00	0.00
17,500.00	90.50	359.46	10,038.56	7,437.32	-479.05	7,441.53	0.00	0.00	0.00
17,600.00	90.50	359.46	10,037.68	7,537.31	-480.00	7,541.53	0.00	0.00	0.00
17,700.00	90.50	359.46	10,036.81	7,637.30	-480.95	7,641.53	0.00	0.00	0.00
17,800.00	90.50	359.46	10,035.94	7,737.30	-481.90	7,741.52	0.00	0.00	0.00
17,900.00	90.50	359.46	10,035.06	7,837.29	-482.85	7,841.52	0.00	0.00	0.00
18,000.00	90.50	359.46	10,034.19	7,937.28	-483.80	7,941.51	0.00	0.00	0.00
18,100.00	90.50	359.46	10,033.32	8,037.27	-484.75	8,041.51	0.00	0.00	0.00
18,200.00	90.50	359.46	10,032.45	8,137.26	-485.70	8,141.51	0.00	0.00	0.00
18,300.00	90.50	359.46	10,031.57	8,237.25	-486.65	8,241.50	0.00	0.00	0.00
18,400.00	90.50	359.46	10,030.70	8,337.25	-487.60	8,341.50	0.00	0.00	0.00
18,500.00	90.50	359.46	10,029.83	8,437.24	-488.54	8,441.50	0.00	0.00	0.00
18,600.00	90.50	359.46	10,028.96	8,537.23	-489.49	8,541.49	0.00	0.00	0.00
18,700.00	90.50	359.46	10,028.08	8,637.22	-490.44	8,641.49	0.00	0.00	0.00
18,800.00	90.50	359.46	10,027.21	8,737.21	-491.39	8,741.48	0.00	0.00	0.00
18,900.00	90.50	359.46	10,026.34	8,837.20	-492.34	8,841.48	0.00	0.00	0.00
19,000.00	90.50	359.46	10,025.47	8,937.20	-493.29	8,941.48	0.00	0.00	0.00
19,100.00	90.50	359.46	10,024.59	9,037.19	-494.24	9,041.47	0.00	0.00	0.00
19,200.00	90.50	359.46	10,023.72	9,137.18	-495.19	9,141.47	0.00	0.00	0.00
19,300.00	90.50	359.46	10,022.85	9,237.17	-496.14	9,241.47	0.00	0.00	0.00
19,400.00	90.50	359.46	10,021.97	9,337.16	-497.09	9,341.46	0.00	0.00	0.00
19,500.00	90.50	359.46	10,021.10	9,437.16	-498.04	9,441.46	0.00	0.00	0.00
19,600.00	90.50	359.46	10,020.23	9,537.15	-498.99	9,541.45	0.00	0.00	0.00
19,700.00	90.50	359.46	10,019.36	9,637.14	-499.93	9,641.45	0.00	0.00	0.00
19,800.00	90.50	359.46	10,018.48	9,737.13	-500.88	9,741.45	0.00	0.00	0.00
19,900.00	90.50	359.46	10,017.61	9,837.12	-501.83	9,841.44	0.00	0.00	0.00
20,000.00	90.50	359.46	10,016.74	9,937.11	-502.78	9,941.44	0.00	0.00	0.00
20,100.00	90.50	359.46	10,015.87	10,037.11	-503.73	10,041.43	0.00	0.00	0.00
20,200.00	90.50	359.46	10,014.99	10,137.10	-504.68	10,141.43	0.00	0.00	0.00
20,300.00	90.50	359.46	10,014.12	10,237.09	-505.63	10,241.43	0.00	0.00	0.00
20,379.13	90.50	359.46	10,013.43	10,316.21	-506.38	10,320.55	0.00	0.00	0.00
PBHL									


MS Directional
 Planning Report


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Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP/FTP - Yada Fed	0.00	0.00	9,739.57	-141.37	-407.11	425,905.06	848,457.55	32.166998	-103.340804
- plan misses target center by 72.43usft at 9770.27usft MD (9742.04 TVD, -140.38 N, -479.50 E)									
- Point									
PBHL - Yada Fed Con	0.00	0.00	10,013.43	10,316.21	-506.38	436,362.64	848,358.29	32.195743	-103.340813
- plan hits target center									
- Point									
LTP - Yada Fed Com	0.00	0.00	10,014.26	10,221.22	-505.27	436,267.64	848,359.40	32.195482	-103.340812
- plan misses target center by 0.21usft at 20284.13usft MD (10014.26 TVD, 10221.21 N, -505.48 E)									
- Point									
FPP2 - Yada Fed Con	0.00	0.00	10,059.45	5,043.33	-456.22	431,089.76	848,408.45	32.181249	-103.340808
- plan misses target center by 0.11usft at 15105.81usft MD (10059.45 TVD, 5043.33 N, -456.33 E)									
- Point									
FPP1 - Yada Fed Con	0.00	0.00	10,094.04	1,079.47	-418.67	427,125.90	848,446.00	32.170354	-103.340805
- plan misses target center by 0.03usft at 11141.62usft MD (10094.04 TVD, 1079.47 N, -418.70 E)									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,200.00	1,200.00	11-3/4" Surface Casing	11-3/4	14-3/4	
5,212.23	5,200.00	8-5/8" Intermediate Casing	8-5/8	11	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
813.50	813.50	Rustler				
1,179.50	1,179.50	Salado				
5,125.38	5,113.50	DMG/Bell Canyon				
6,019.98	6,004.50	Cherry Canyon				
7,528.05	7,506.50	Brushy Canyon				
8,619.35	8,596.50	Brushy Canyon Lwr				
8,855.35	8,832.50	Avalon Upr				
9,135.35	9,112.50	Avalon Mid				
9,712.52	9,687.50	Avalon Lwr				
10,261.98	10,069.50	1st Bone Spring Sand				



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Project:	Lea County, New Mexico (NAD 83)	MD Reference:	Well @ 3278.50usft (26.5' RKB)
Site:	Yada Fed Com (111H, 112H, 113H, 114H)	North Reference:	Grid
Well:	Yada Fed Com 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP, 2.00°/100' Build
2,257.03	2,256.69	-4.06	-10.78	Hold 5.14° Inc, 249.37° Azm
7,765.81	7,743.31	-177.97	-472.72	Begin 2.00°/100' Drop
8,022.85	8,000.00	-182.03	-483.51	Begin Vertical Hold
9,549.95	9,527.10	-182.03	-483.51	Begin 10.00°/100' Build
10,454.95	10,100.04	393.26	-428.11	Hold 90.50° Inc, Begin 2.00°/100' Turn
10,757.13	10,097.40	695.01	-415.05	Hold 359.46° Azm
20,379.13	10,013.43	10,316.21	-506.38	PBHL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Civitas Permian Operating LLC
WELL NAME & NO.:	Seinfeld Yada Federal Unit 112H
LOCATION:	Sec 35-24S-35E-NMP
COUNTY:	Lea County, New Mexico

Create COAs

H₂S	Cave / Karst	Waste Prevention Rule
Not Reported	Low	Waste Minimization Plan
Potash	R-111-Q Design	
None		
Wellhead	Casing	
Multibowl	3-String Well	
<input checked="" type="checkbox"/> Flex Hose <input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Liner <input type="checkbox"/> Fluid Filled <input type="checkbox"/> Casing Clearance	
	Cementing	
	<input type="checkbox"/> DV Tool <input type="checkbox"/> Bradenhead <input type="checkbox"/> Echometer <input checked="" type="checkbox"/> Offline Cement <input type="checkbox"/> Open Annulus <input type="checkbox"/> Pilot Hole	
Special Requirements		
<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM <input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **11-3/4** inch surface casing shall be set at approximately **1085** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement

- and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
 3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - If cement does not circulate to surface on the previous casing, this string must come to surface.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.**) If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drilling the**

production hole section.

- b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
- c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
- e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)**Communitization Agreement:**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production**. Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification

- matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the

pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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



1. H₂S safety instructions to the following:
 - a. Characteristics of H₂S
 - b. Physical effects and hazards
 - c. Principal and operation of H₂S detectors, warning system and briefing areas
 - d. Evacuation procedures, routes and first aid
 - e. Proper use of safety equipment & life support systems
 - f. Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30 min pressure demand air packs
2. H₂S Detection and Alarm Systems:
 - a. H₂S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H₂S detectors may be placed as deemed necessary
 - b. An audio alarm system will be installed on the derrick floor and in the doghouse
3. Windssocks and / Wind Streamers:
 - a. Windssocks at mud pit area should be high enough to be visible
 - b. Windssock on the rig floor and / top of doghouse should be high enough to be visible
4. Condition Flags and Signs:
 - a. Warning sign on access road to location
 - b. Flags to be displayed on sign at entrance to location
 - i. Green Flag – Normal Safe Operation Condition
 - ii. Yellow Flag – Potential Pressure and Danger
 - iii. Red Flag – Danger (H₂S present in dangerous concentrations) Only H₂S trained personnel admitted on location
5. Well Control Equipment:
 - a. See Drilling Operations Plan Schematics
6. Communication:
 - a. While working under masks chalkboards will be used for communications
 - b. Hand signals will be used where chalk board is inappropriate
 - c. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7. Drilling Stem Testing:
 - a. No DST cores are planned at this time
8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubulars, goods and other mechanical equipment
9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary
10. Emergency Contacts

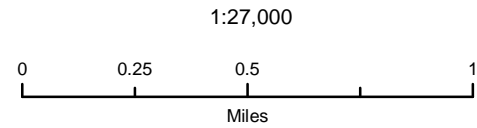
Emergency Contacts		
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Civitas Resources	720.601.8437	

Civitas Permian Operating, LLC

Seinfeld Yada Federal Unit
E2W2 Pad
H2S Contingency Plan:
2 Mile Radius Map

Sec. 35, Township 24S, Range 35E
Lea County, New Mexico

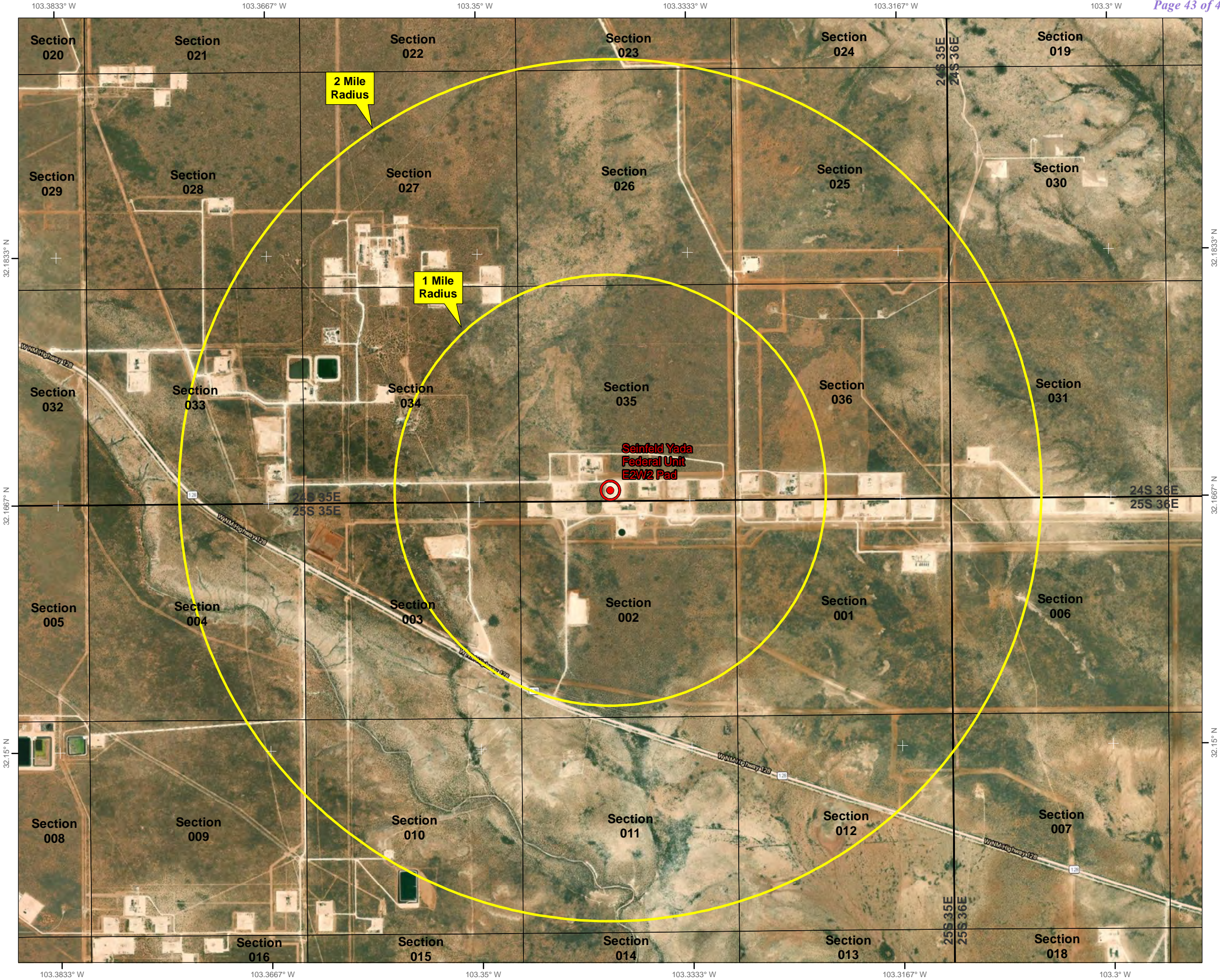
 Well Pad Location



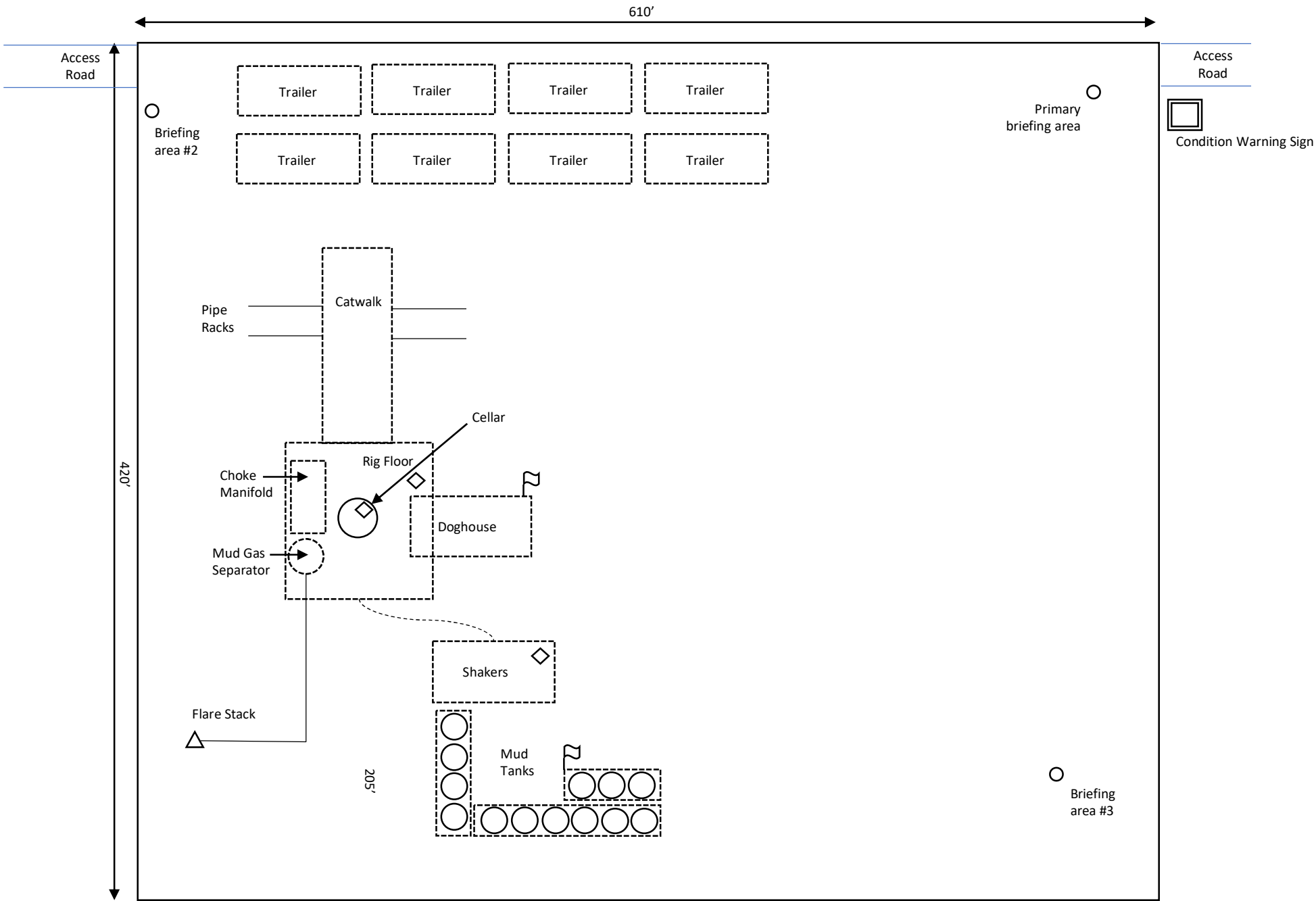
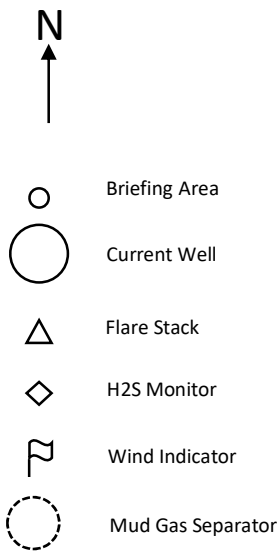
NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

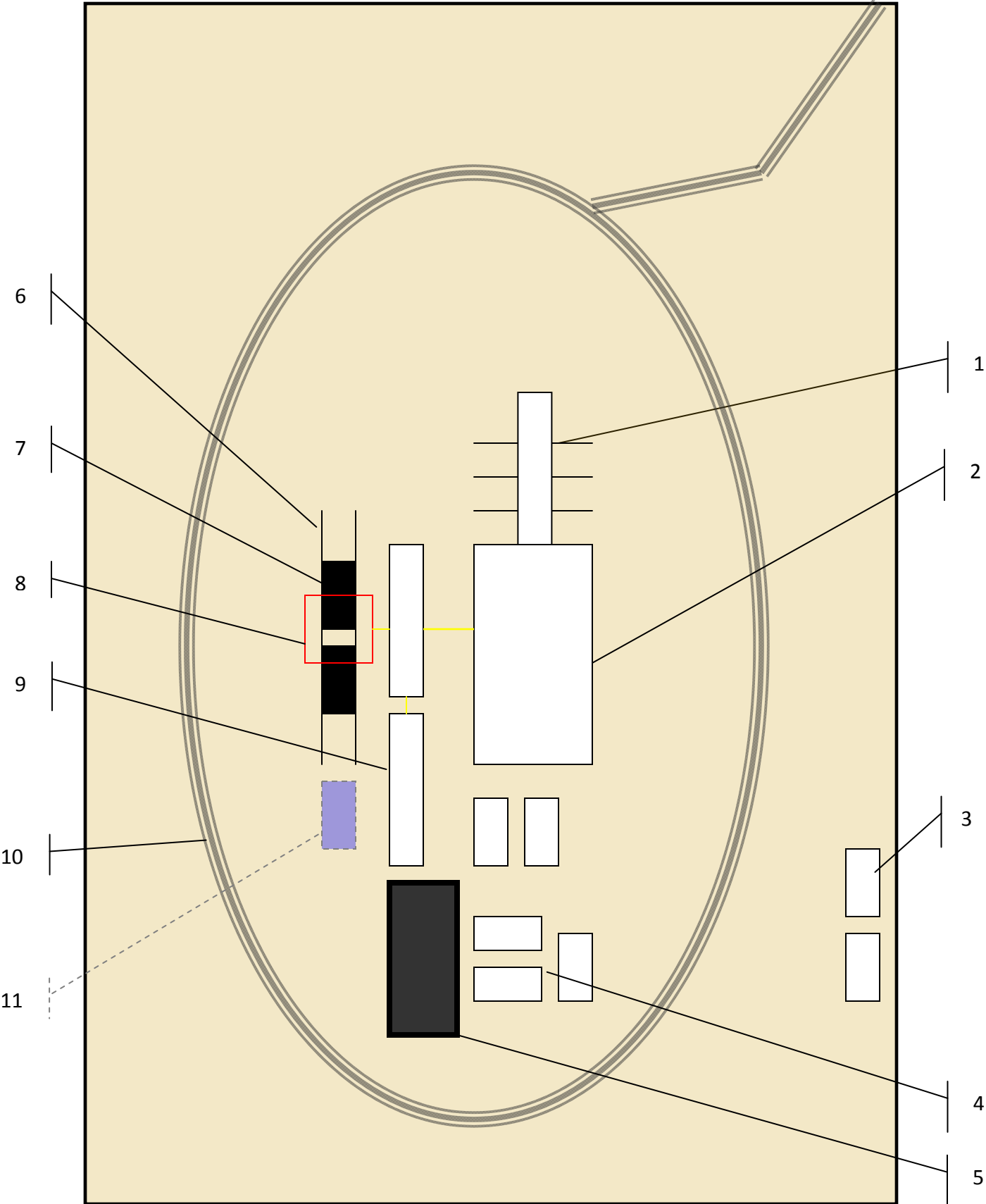


Prepared by Permits West, Inc., May 26, 2025
for Civitas Permian Operating, LLC



Rig Diagram
E2W2 Pad
Civitas Permian
Operating, LLC
35-24S-35E
Lea County, NM





Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available



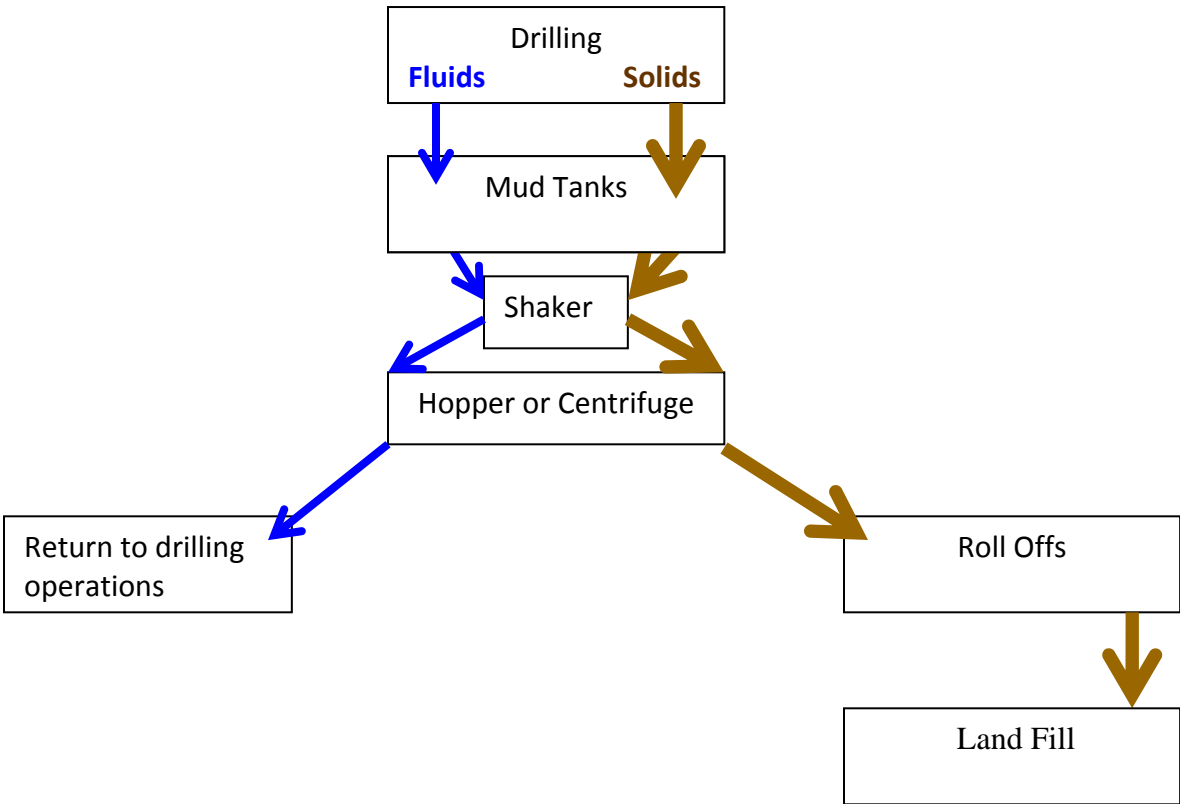
Above: Centrifugal Closed Loop System

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120



Closed Loop Drilling System: Mud tanks to right (1)
Hopper in air to settle out solids (2)
Water return pipe (3)
Shaker between hopper and mud tanks (4)
Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil
Field Service

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/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 539849

ACKNOWLEDGMENTS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 539849
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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COMMENTS

Action 539849

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COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well.	1/22/2026

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CONDITIONS

Action 539849

CONDITIONS

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	Action Number: 539849
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
nlee01	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/5/2026
nlee01	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/5/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/22/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	1/22/2026
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/22/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/22/2026