

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 373760

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

1. Operator Name and Address CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706		2. OGRID Number 215099
		3. API Number 30-025-53707
4. Property Code 336378	5. Property Name TRES EQUIS 5 8 STATE COM	6. Well No. 352H

7. Surface Location

UL - Lot C	Section 5	Township 24S	Range 33E	Lot Idn 3	Feet From 387	N/S Line N	Feet From 1558	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot N	Section 8	Township 24S	Range 33E	Lot Idn N	Feet From 100	N/S Line S	Feet From 2310	E/W Line W	County Lea
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9. Pool Information

TRIPLE X;BONE SPRING, WEST	96674
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3657
16. Multiple N	17. Proposed Depth 22426	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 11/1/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	1370	841	0
Int1	12.25	9.625	40	5170	1267	0
Prod	8.75	7	29	12482	541	4970
Liner1	6	4.5	11.6	22426	738	12282

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Double Ram	5000	5000	
Pipe	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Phillip Levasseur	Approved By:	Paul F Kautz
Title:	Regulatory Compliance Manager	Title:	Geologist
Email Address:	phillip.levasseur@coterra.com	Approved Date:	10/12/2024
Date:	9/27/2024	Phone:	412-759-4585
		Expiration Date:	10/12/2026
Conditions of Approval Attached			

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:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code 96674	Pool Name Triple X; Bone Spring, West
Property Code	Property Name TRES EQUIS 5 8 STATE COM	Well Number 352H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Ground Level Elevation 3657.1'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL 3	Section 5	Township 24S	Range 33E	Lot	Ft. from N/S 387 NORTH	Ft. from E/W 1558 WEST	Latitude (NAD 83) 32.252880°	Longitude (NAD 83) -103.597847°	County LEA
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Bottom Hole Location

UL N	Section 8	Township 24S	Range 33E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.225203°	Longitude (NAD 83) -103.595417°	County LEA
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Dedicated Acres 319.79	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL 3	Section 5	Township 24S	Range 33E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.253666°	Longitude (NAD 83) -103.595413°	County LEA
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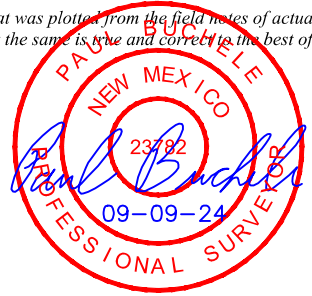
First Take Point (FTP)

UL 3	Section 5	Township 24S	Range 33E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.253666°	Longitude (NAD 83) -103.595413°	County LEA
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Last Take Point (LTP)

UL N	Section 8	Township 24S	Range 33E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.225203°	Longitude (NAD 83) -103.595417°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>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> Shelly Bowen 9/23/2024	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the 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> 
Signature Shelly Bowen	Signature and Seal of Professional Surveyor 23782 April 08, 2024
Printed Name shelly.bowen@coterra.com Email Address	Certificate Number Date of Survey

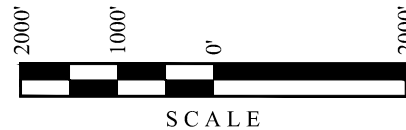
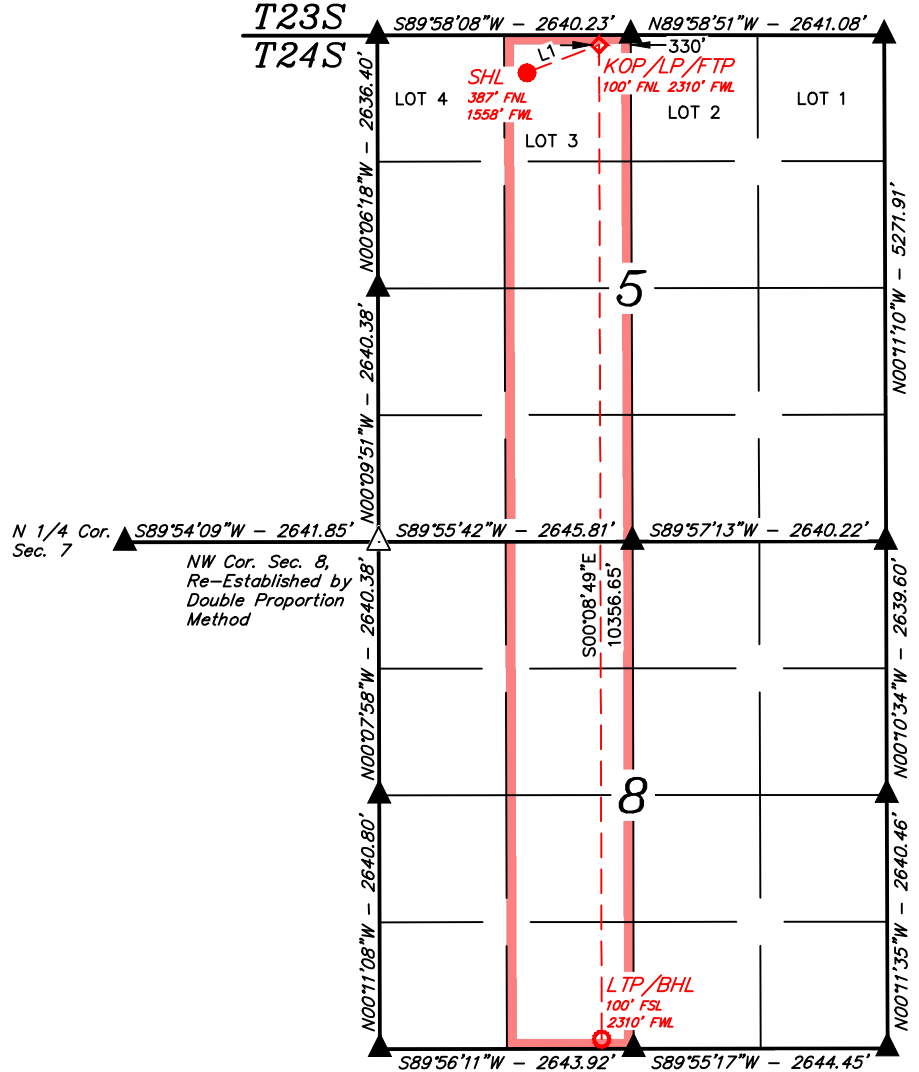
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name TRES EQUIS 5 8 STATE COM	Well Number 352H	Drawn By D.M.C. 07-24-24	Revised By (WELL NAME CHANGE & ADD DEDICATED ACREAGE)	REV.: 1 L.T.T. 09-09-24
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- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
- = LAST TAKE POINT/BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)
- = DEDICATED ACREAGE

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N69°03'15"E	805.08'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'10.37" (32.252880°)
LONGITUDE = -103°35'52.25" (-103.597847°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'09.92" (32.252757°)
LONGITUDE = -103°35'50.52" (-103.597367°)
STATE PLANE NAD 83 (N.M. EAST)
N: 456509.97' E: 768704.14'
STATE PLANE NAD 27 (N.M. EAST)
N: 456450.89' E: 727520.37'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°15'13.20" (32.253666°)
LONGITUDE = -103°35'43.49" (-103.595413°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°15'12.75" (32.253542°)
LONGITUDE = -103°35'41.76" (-103.594933°)
STATE PLANE NAD 83 (N.M. EAST)
N: 456800.88' E: 769454.68'
STATE PLANE NAD 27 (N.M. EAST)
N: 456741.78' E: 728270.92'

NAD 83 (LTP/BHL)
LATITUDE = 32°13'30.73" (32.225203°)
LONGITUDE = -103°35'43.50" (-103.595417°)
NAD 27 (LTP/BHL)
LATITUDE = 32°13'30.29" (32.225079°)
LONGITUDE = -103°35'41.78" (-103.594938°)
STATE PLANE NAD 83 (N.M. EAST)
N: 446446.25' E: 769524.63'
STATE PLANE NAD 27 (N.M. EAST)
N: 446387.42' E: 728340.41'

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

Form APD Conditions
Permit 373760

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CIMAREX ENERGY CO. [215099] 6001 Deauville Blvd Midland, TX 79706	API Number: 30-025-53707
	Well: TRES EQUIS 5 8 STATE COM #352H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Coterra: H2S Plan



H2S Drilling Operations Plan

Training

All company and contract personnel admitted on location must be trained by a qualified H2S safety instructor to do the following:

1. Characteristics of H2S
2. Physical effects and hazards
3. Principle and operation of H2S detectors, warning system, and briefing areas
4. Evacuation procedure, routes and first aid
5. Proper use of safety equipment & life support systems
6. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H2S Detection and Alarm Systems

1. H2S sensors/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
2. An audio alarm system will be installed on the derrick floor and in the top doghouse

Windsock and/or wind streamers

1. Windsock at mudpit area should be high enough to be visible
2. Windsock on the rig floor and / or top of doghouse should be high enough to be visible

Condition Flags & Signs

1. Warning signs on access road to location
2. Flags are to be displayed on sign at the entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates

Coterra: H2S Plan

danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

1. While working under masks, chalkboards will be used for communication
2. Hand signals will be used where chalk board is inappropriate.
3. Two way radio will be used to communicate off location in case emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

Drillstem Testing

1. No DSTs or cores are planned at this time
2. Drilling contractor supervisor will be required to be familiar with the effects that H2S has on tubular goods and other mechanical equipment.
3. If H2S is encountered, mud system will be altered if necessary to maintain control of the well. A mud gas separator will be brought into service along with H2S scavenger if necessary.

Coterra: H2S Plan

H2S Contingency Plan

Emergency Procedures

In the event of an H2S release, the first responder(s) must:

1. Isolate the area and prevent entry by other persons into the 100 PPM ROE.
2. Evacuate any public places encompassed by the 100 PPM ROE.
3. Be equipped with H2S monitors and air packs in order to control the release.
4. Use the buddy system
5. Take precautions to avoid personal injury during this operation
6. Contact operator and/or local officials to aid in operation. See list of emergency contacts attached.
7. Have received training the detection of H2S, measures for protection against the gas, and equipment used for protection and emergency response

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Contacting Authorities

1. Coterra personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours.
2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

Coterra: H2S Plan

Emergency Contacts

Coterra Energy

Charlie Pritchard: Drilling Operations Manager: 432 – 238 – 7084

Darrell Kelly: Vice President EHS: 281 – 589 – 5795

Third Party

PERMIAN REGION CONTACT NUMBERS					
CALL 911					
Air Ambulance Services					
	Reeves County Medical - Pecos, TX		432-447-3551		
	Aero Care - Midland, TX		800-627-2376		
	Tri State Care Flight - Artesia, NM		800-800-0900		
	Air Methods - Hobbs, NM		800-242-6199		
Fire / Police / Medical Care					
Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kernit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzon			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
Chaves County	575-624-7590				
Ground Ambulance Services					
	Reeves County Medical		Pecos, TX		432-447-3551

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: Cimarex Energy Company **OGRID:** 215099 **Date:** 9/23/24

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
Tres Equis 5 8 State Com 352H	NENW Sec 5 T24S, R33E	387FNL/ 1558 FWL	2153	4522	4067	

IV. Central Delivery Point Name: Tres Equis 5 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
Tres Equis 5 8 State Com 352H		12/7/24	2/12/25	3/19/25	4/30/25	4/30/25

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:	<i>Shelly Bowen</i>
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	9/23/24
Phone:	432/620-1644
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

Cimarex

VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
 - a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
 - a. Venting or flaring occurs due to an emergency or equipment malfunction.
 - b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
 - c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
 - d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
 - e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
 - f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
 - g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
 - h. Venting or flaring occurs as a result of normal dehydration unit operations.

- i. Venting or flaring occurs as a result of bradenhead testing.
 - j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
 - k. Venting or flaring occurs as a result of a packer leakage test.
 - l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
 - m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.
6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc...
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
 - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
 - b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
 - a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
 - Always strive to kill well when performing downhole maintenance.
 - If vapors or trapped pressure is present and must be relieved then:
 - Initial blowdown to production facility:
 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable flare if applicable.
- **Stock tank servicing:**
 - Minimize time spent with thief hatches open.
 - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
 - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
 - Isolate the vent lines and overflows on the tank being serviced from other tanks.
- **Pressure vessel/compressor servicing and associated blowdowns:**
 - Route to flare where possible.
 - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
 - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
 - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.
- **Flare/combustor maintenance:**
 - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
 - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
 - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

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:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code 96674	Pool Name Triple X; Bone Spring, West
Property Code	Property Name TRES EQUIS 5 8 STATE COM	Well Number 352H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Ground Level Elevation 3657.1'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL 3	Section 5	Township 24S	Range 33E	Lot	Ft. from N/S 387 NORTH	Ft. from E/W 1558 WEST	Latitude (NAD 83) 32.252880°	Longitude (NAD 83) -103.597847°	County LEA
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Bottom Hole Location

UL N	Section 8	Township 24S	Range 33E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.225203°	Longitude (NAD 83) -103.595417°	County LEA
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Dedicated Acres 319.79	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL 3	Section 5	Township 24S	Range 33E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.253666°	Longitude (NAD 83) -103.595413°	County LEA
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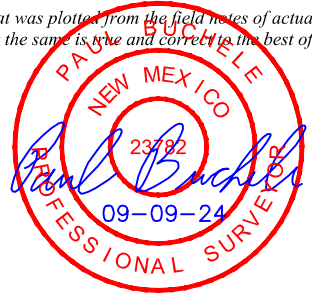
First Take Point (FTP)

UL 3	Section 5	Township 24S	Range 33E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.253666°	Longitude (NAD 83) -103.595413°	County LEA
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Last Take Point (LTP)

UL N	Section 8	Township 24S	Range 33E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2310 WEST	Latitude (NAD 83) 32.225203°	Longitude (NAD 83) -103.595417°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>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> Shelly Bowen 9/23/2024	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the 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> 
Signature Shelly Bowen	Signature and Seal of Professional Surveyor 23782 April 08, 2024
Printed Name shelly.bowen@coterra.com Email Address	Certificate Number Date of Survey

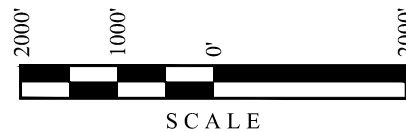
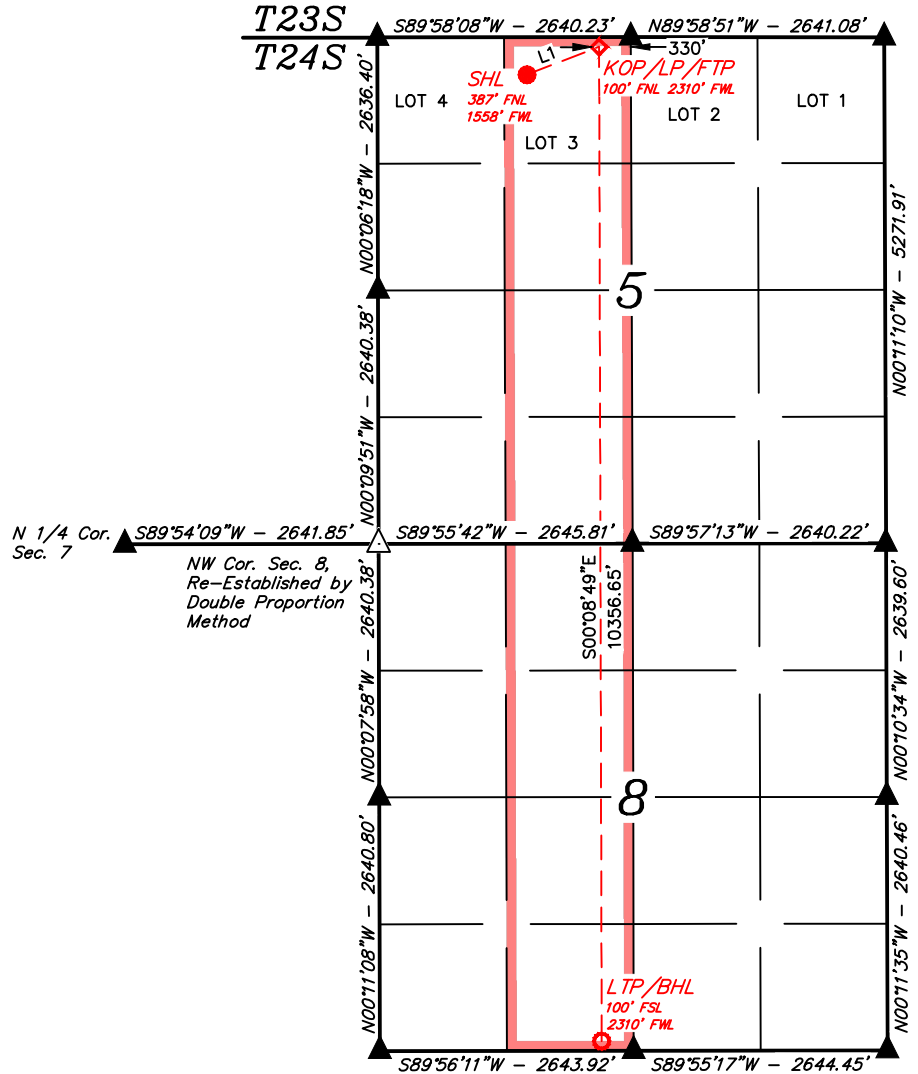
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name TRES EQUIS 5 8 STATE COM	Well Number 352H	Drawn By D.M.C. 07-24-24	Revised By (WELL NAME CHANGE & ADD DEDICATED ACREAGE)	REV.: 1 L.T.T. 09-09-24
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- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
- = LAST TAKE POINT/BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)
- = DEDICATED ACREAGE

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N69°03'15"E	805.08'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'10.37" (32.252880°)
LONGITUDE = -103°35'52.25" (-103.597847°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°15'09.92" (32.252757°)
LONGITUDE = -103°35'50.52" (-103.597367°)
STATE PLANE NAD 83 (N.M. EAST)
N: 456509.97' E: 768704.14'
STATE PLANE NAD 27 (N.M. EAST)
N: 456450.89' E: 727520.37'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°15'13.20" (32.253666°)
LONGITUDE = -103°35'43.49" (-103.595413°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°15'12.75" (32.253542°)
LONGITUDE = -103°35'41.76" (-103.594933°)
STATE PLANE NAD 83 (N.M. EAST)
N: 456800.88' E: 769454.68'
STATE PLANE NAD 27 (N.M. EAST)
N: 456741.78' E: 728270.92'

NAD 83 (LTP/BHL)
LATITUDE = 32°13'30.73" (32.225203°)
LONGITUDE = -103°35'43.50" (-103.595417°)
NAD 27 (LTP/BHL)
LATITUDE = 32°13'30.29" (32.225079°)
LONGITUDE = -103°35'41.78" (-103.594938°)
STATE PLANE NAD 83 (N.M. EAST)
N: 446446.25' E: 769524.63'
STATE PLANE NAD 27 (N.M. EAST)
N: 446387.42' E: 728340.41'



Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24 Anti-Collision Summary Report

Analysis Date-24hr Time: September 10, 2024 - 04:49 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure: Coterra Tres Equis 5 State Pad Lot 3
Slot: Tres Equis 5-8 State 352H
Well: Tres Equis 5-8 State 352H
Borehole: Tres Equis 5-8 State 352H
Scan MD Range: 0.00ft ~ 22426.47ft

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24 (Def)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: NAL Procedure: D&M AntiCollision Standard S002
Min Pts: Absolute minima indicated.
Engine Version: 2024.4.0.4
Database \ Project: Tres Equis 5-8 State 352H-COTERRA

Trajectory Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria

Bounding box scan: minimum Ct-Ct separation <= 3000ft
 Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
 Selection filters: - All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

21 out of 32 are selected

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	

Results highlighted in red: Sep-Factor <= 1.5

Result highlighted in boxed, red and bold: all local minima indicated.

Coterra Tres Equis 5-8 State 402H Rev0 kFc 09Sep24 (DefinitivePlan) - Fail Minor

19.99	16.25	18.70	3.74	N/A	MAS = 4.95 (m)	0.00	0.00	CtCt<=15.00m				Enter Alert
19.99	16.25	18.70	3.74	52788.87	MAS = 4.95 (m)	23.00	23.00					WRP
19.99	19.75	6.39	0.24	1.52	OSF1.50	1290.00	1290.00					MinPts
19.99	20.05	6.29	-0.06	1.50	OSF1.50	1330.00	1330.00		OSF<=1.50			Enter Minor
19.99	27.12	1.58	-7.13	1.09	OSF1.50	1800.00	1800.00					MinPt-CtCt
20.13	27.57	1.43	-7.43	1.08	OSF1.50	1830.00	1830.00					MinPts
20.39	27.87	1.49	-7.48	1.08	OSF1.50	1850.00	1850.00					MinPt-ADP
30.28	30.83	9.39	-0.56	1.47	OSF1.50	2050.00	2049.68		OSF>1.50			Exit Minor
179.28	54.50	142.62	124.78	5.00	OSF1.50	3620.00	3604.90		OSF>5.00			Exit Alert
523.18	157.79	417.66	365.39	5.00	OSF1.50	10500.00	10451.79		OSF<=5.00			Enter Alert
523.22	176.06	405.52	347.16	4.47	OSF1.50	11750.00	11701.79					MinPt-EOU
523.28	176.14	405.53	347.14	4.47	OSF1.50	11760.00	11711.78					MinPt-ADP
524.24	176.61	406.17	347.62	4.47	OSF1.50	11820.00	11771.45					MinPt-SF
589.56	178.08	470.51	411.47	4.99	OSF1.50	12280.00	12152.36		OSF>5.00			Exit Alert
691.65	208.35	552.41	483.29	5.00	OSF1.50	15600.00	12285.00		OSF<=5.00			Enter Alert
692.12	377.02	440.44	315.10	2.76	OSF1.50	22426.47	12285.00					MinPts

Coterra Tres Equis 5-8 State 351H Rev0 kFc 09Sep24 (DefinitivePlan) - Warning Alert

39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15.00m				Enter Alert
39.99	32.25	38.70	7.74	21847.37	MAS = 9.83 (m)	23.00	23.00					WRP
39.99	32.25	26.39	7.74	3.14	MAS = 9.83 (m)	1290.00	1290.00					MinPt-EOU
39.99	32.25	21.68	7.74	2.25	MAS = 9.83 (m)	1790.00	1790.00					MinPts
40.12	32.25	21.51	7.87	2.22	MAS = 9.83 (m)	1820.00	1820.00					MinPt-EOU
40.28	32.25	21.57	8.03	2.22	MAS = 9.83 (m)	1830.00	1830.00					MinPt-SF
111.20	34.26	88.03	76.94	4.97	OSF1.50	2300.00	2297.73		OSF>5.00			Exit Alert
1215.26	175.81	1097.73	1039.46	10.42	OSF1.50	11740.00	11691.79					MinPts
1319.82	377.51	1067.82	942.31	5.25	OSF1.50	22426.47	12285.00					MinPts

Coterra Tres Equis 5-8 State 401H Rev0 kFc 09Sep24 (DefinitivePlan) - Warning Alert

59.99	32.81	58.71	27.18	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
59.99	32.81	58.70	27.18	12744.97	MAS = 10.00 (m)	23.00	23.00					WRP
59.99	32.81	46.89	27.18	4.97	MAS = 10.00 (m)	1240.00	1240.00		OSF<=5.00			Enter Alert
59.99	32.81	46.39	27.18	4.77	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU
59.99	32.81	43.68	27.18	3.85	MAS = 10.00 (m)	1590.00	1590.00					MinPts
60.15	32.81	43.45	27.35	3.76	MAS = 10.00 (m)	1630.00	1630.00					MinPt-EOU
62.03	32.81	44.55	29.23	3.70	MAS = 10.00 (m)	1710.00	1710.00					MinPt-SF
96.80	32.81	76.47	63.99	4.95	MAS = 10.00 (m)	2020.00	2019.78		OSF>5.00			Exit Alert
1720.06	176.48	1602.08	1543.59	14.69	OSF1.50	11750.00	11701.79					MinPt-EOU
1720.13	176.55	1602.10	1543.58	14.69	OSF1.50	11760.00	11711.78					MinPt-ADP
1726.88	177.83	1608.00	1549.05	14.64	OSF1.50	11940.00	11887.31					MinPt-SF
1991.23	377.95	1738.94	1613.28	7.92	OSF1.50	22426.47	12285.00					MinPts

30-025-40675-0100 - TRES EQUIS 5 STATE 2 ST01 - Gyro+MWD to 10485ft - P (DefinitiveSurvey) - Warning Alert

434.63	32.81	432.65	401.82	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
434.30	32.81	432.28	401.50	10452.92	MAS = 10.00 (m)	10.00	10.00					MinPt-SF
434.21	32.81	432.23	401.40	276244.99	MAS = 10.00 (m)	23.00	23.00					WRP
427.37	32.81	413.30	394.56	35.20	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU
184.47	56.98	145.89	127.49	4.96	OSF1.50	3800.00	3783.15		OSF<=5.00			Enter Alert
91.09	75.70	40.09	15.39	1.81	OSF1.50	5029.34	5000.54					MinPt-CtCt
91.13	75.80	40.06	15.33	1.81	OSF1.50	5040.00	5011.10					MinPt-EOU
91.23	75.90	40.09	15.33	1.81	OSF1.50	5050.00	5021.00					MinPts
286.28	87.16	227.64	199.12	4.99	OSF1.50	6430.00	6387.59		OSF>5.00			Exit Alert
381.57	103.35	312.13	278.22	5.60	OSF1.50	7870.00	7821.79					MinPt-CtCt
376.06	112.15	300.75	263.91	5.08	OSF1.50	8610.00	8561.79					MinPt-CtCt
376.45	114.11	299.83	262.34	5.00	OSF1.50	8770.00	8721.79		OSF<=5.00			Enter Alert
367.45	125.28	283.39	242.17	4.44	OSF1.50	9660.00	9611.79					MinPt-CtCt
367.89	126.50	283.02	241.39	4.40	OSF1.50	9760.00	9711.79					MinPt-EOU
369.48	128.38	283.36	241.10	4.35	OSF1.50	9910.00	9861.79					MinPt-ADP
381.23	136.62	289.61	244.61	4.22	OSF1.50	10550.00	10501.79					MinPt-SF
422.86	128.75	336.49	294.11	4.97	OSF1.50	10730.00	10681.79		OSF>5.00			Exit Alert
2014.31	117.25	1935.64	1897.06	26.09	OSF1.50	13110.00	12285.00					MinPt-SF
10310.89	172.69	10195.26	10138.20	90.33	OSF1.50	22426.47	12285.00					TD

30-025-40675 - TRES EQUIS 5 STATE 2 - Gyro+MWD to 15178ft - P (DefinitiveSurvey) - Warning Alert

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
434.63	32.81	432.65	401.82	N/A		MAS = 10.00 (m)	0.00	0.00				Surface
434.30	32.81	432.28	401.50	10452.92		MAS = 10.00 (m)	10.00	10.00				MinPt-SF
434.21	32.81	432.23	401.40	276244.99		MAS = 10.00 (m)	23.00	23.00				WRP
427.37	32.81	413.30	394.56	35.20		MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
184.47	56.98	145.89	127.49	4.96		OSF1.50	3800.00	3783.15	OSF<=5.00			Enter Alert
96.41	73.83	46.61	22.58	1.97		OSF1.50	4825.14	4798.33				MinPt-CiCt
96.86	75.11	46.20	21.75	1.94		OSF1.50	4900.00	4872.46				MinPt-EOU
97.43	75.79	46.31	21.63	1.94		OSF1.50	4940.00	4912.07				MinPt-ADP
98.42	76.65	46.74	21.77	1.94		OSF1.50	4990.00	4961.58				MinPt-SF
100.32	78.03	47.76	22.28	1.94		OSF1.50	5080.00	5050.71				MinPt-SF
277.40	122.77	195.01	154.63	3.41		OSF1.50	8190.00	8141.79				MinPt-CiCt
278.06	124.91	194.25	153.15	3.36		OSF1.50	8340.00	8291.79				MinPt-EOU
278.77	125.75	194.39	153.01	3.35		OSF1.50	8400.00	8351.79				MinPt-ADP
287.36	142.27	191.97	145.09	3.05		OSF1.50	9530.00	9481.79				MinPt-EOU
287.94	142.96	192.10	144.98	3.04		OSF1.50	9580.00	9531.79				MinPt-ADP
285.58	157.65	179.94	127.93	2.73		OSF1.50	10580.00	10531.79				MinPt-CiCt
285.74	158.22	179.72	127.52	2.72		OSF1.50	10630.00	10581.79				MinPt-EOU
285.82	158.32	179.74	127.50	2.72		OSF1.50	10640.00	10591.79				MinPt-ADP
285.93	158.39	179.80	127.54	2.72		OSF1.50	10650.00	10601.79				MinPt-SF
473.61	144.57	376.69	329.04	4.95		OSF1.50	11210.00	11161.79	OSF>5.00			Exit Alert
1161.20	113.80	1084.83	1047.40	15.49		OSF1.50	13000.00	12285.00				MinPt-CiCt
1161.26	114.00	1084.75	1047.25	15.46		OSF1.50	13020.00	12285.00				MinPt-EOU
1161.34	114.11	1084.77	1047.23	15.45		OSF1.50	13030.00	12285.00				MinPt-ADP
1162.29	114.80	1085.25	1047.48	15.37		OSF1.50	13110.00	12285.00				MinPt-ADP
1171.79	118.32	1092.40	1053.46	15.03		OSF1.50	13420.00	12285.00				MinPt-SF
1172.74	118.82	1093.03	1053.92	14.97		OSF1.50	13480.00	12285.00				MinPt-EOU
1172.98	119.10	1093.08	1053.88	14.94		OSF1.50	13500.00	12285.00				MinPt-ADP
1119.63	159.75	1012.62	959.87	10.60		OSF1.50	15640.00	12285.00				MinPt-CiCt
1106.00	183.74	983.00	922.26	9.09		OSF1.50	16580.00	12285.00				MinPt-CiCt
1106.19	184.29	982.83	921.90	9.07		OSF1.50	16600.00	12285.00				MinPt-EOU
1106.42	184.56	982.88	921.86	9.05		OSF1.50	16610.00	12285.00				MinPt-ADP
1117.59	187.89	991.82	929.69	8.96		OSF1.50	16740.00	12285.00				MinPt-SF
5950.68	193.32	5821.30	5757.35	46.52		OSF1.50	22426.47	12285.00				TD
30-025-46755 - HEMLOCK 32 STATE 204H - MWD to 14786ft - A (DefinitiveSurvey) - Warning Alert												
862.36	32.81	860.36	829.55	#####		MAS = 10.00 (m)	0.00	0.00				MinPts
862.37	32.81	860.36	829.56	27150.74		MAS = 10.00 (m)	23.00	23.00				WRP
301.70	92.01	239.82	209.69	4.98		OSF1.50	5960.00	5922.15	OSF<=5.00			Enter Alert
177.31	112.57	101.73	64.74	2.38		OSF1.50	7200.00	7151.80				MinPt-CiCt
177.59	113.39	101.46	64.20	2.36		OSF1.50	7260.00	7211.79				MinPt-EOU
178.69	114.63	101.74	64.07	2.35		OSF1.50	7350.00	7301.79				MinPt-ADP
159.21	141.67	64.23	17.55	1.69		OSF1.50	9254.93	9206.71				MinPt-CiCt
159.29	141.85	64.19	17.45	1.69		OSF1.50	9270.00	9221.79				MinPts
406.96	123.96	323.81	283.03	4.97		OSF1.50	9980.00	9931.79	OSF>5.00			Exit Alert
10916.22	187.76	10790.55	10728.46	87.90		OSF1.50	22426.47	12285.00				TD
30-025-40818 - TRES EQUIS 5 STATE 2Y - Gyro+MWD to 15531ft - P (DefinitiveSurvey) - Warning Alert												
582.90	32.81	580.92	550.10	737887.56		MAS = 10.00 (m)	0.00	0.00				Surface
582.83	32.81	580.81	550.02	13500.76		MAS = 10.00 (m)	23.00	23.00				WRP
573.74	32.81	559.55	540.93	46.82		MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
236.17	72.21	187.44	163.95	4.99		OSF1.50	4760.00	4733.82	OSF<=5.00			Enter Alert
166.42	93.99	103.22	72.42	2.68		OSF1.50	6064.18	6025.32				MinPt-CiCt
166.90	95.51	102.69	71.39	2.64		OSF1.50	6160.00	6120.21				MinPt-EOU
167.40	96.13	102.78	71.27	2.63		OSF1.50	6200.00	6159.82				MinPt-ADP
169.24	97.50	103.70	71.74	2.62		OSF1.50	6290.00	6248.95				MinPt-SF
224.26	130.42	136.78	93.84	2.59		OSF1.50	8600.00	8551.79				MinPt-CiCt
219.47	147.90	120.33	71.57	2.23		OSF1.50	9810.00	9761.79				MinPt-CiCt
222.92	158.98	116.39	63.93	2.11		OSF1.50	10610.00	10561.79				MinPt-EOU
223.03	159.12	116.41	63.91	2.11		OSF1.50	10630.00	10581.79				MinPt-ADP
223.12	159.18	116.46	63.93	2.11		OSF1.50	10640.00	10591.79				MinPt-SF
444.73	136.78	353.00	307.95	4.92		OSF1.50	11290.00	11241.79	OSF>5.00			Exit Alert
1186.32	111.31	1111.61	1075.01	16.18		OSF1.50	13280.00	12285.00				MinPt-CiCt
1186.58	112.11	1111.34	1074.47	16.07		OSF1.50	13350.00	12285.00				MinPt-EOU
1186.87	112.46	1111.39	1074.41	16.02		OSF1.50	13380.00	12285.00				MinPt-ADP
1173.78	122.32	1091.74	1051.46	14.55		OSF1.50	14070.00	12285.00				MinPt-CiCt
1174.90	125.16	1090.96	1049.74	14.23		OSF1.50	14230.00	12285.00				MinPt-EOU
1160.48	152.50	1058.31	1007.97	11.51		OSF1.50	15470.00	12285.00				MinPt-CiCt
1161.08	154.29	1057.72	1006.79	11.38		OSF1.50	15540.00	12285.00				MinPt-EOU
1161.96	155.33	1057.91	1006.64	11.32		OSF1.50	15580.00	12285.00				MinPt-ADP
1155.85	173.32	1039.80	982.53	10.08		OSF1.50	16240.00	12285.00				MinPt-CiCt
1157.61	179.17	1037.66	978.44	9.76		OSF1.50	16450.00	12285.00				MinPt-EOU
1159.44	181.40	1038.01	978.04	9.65		OSF1.50	16530.00	12285.00				MinPt-ADP
1167.30	191.29	1039.27	976.01	9.21		OSF1.50	16890.00	12285.00				MinPt-CiCt
1167.56	192.16	1038.96	975.40	9.17		OSF1.50	16920.00	12285.00				MinPt-EOU
1167.82	192.45	1039.03	975.38	9.16		OSF1.50	16930.00	12285.00				MinPt-ADP
1180.37	196.11	1049.12	984.25	9.09		OSF1.50	17070.00	12285.00				MinPt-SF
5653.49	195.33	5522.77	5458.16	43.74		OSF1.50	22426.47	12285.00				TD
30-025-45516 - HEMLOCK 32 STATE 704H - MWD to 17475ft - A (DefinitiveSurvey) - Warning Alert												
770.65	32.81	768.67	737.84	1990502.77		MAS = 10.00 (m)	0.00	0.00				MinPts
770.68	32.81	768.67	737.87	28093.78		MAS = 10.00 (m)	23.00	23.00				WRP
770.81	32.81	768.63	738.00	3852.24		MAS = 10.00 (m)	60.00	60.00				MinPt-EOU
310.63	94.74	246.94	215.90	4.98		OSF1.50	6030.00	5991.47	OSF<=5.00			Enter Alert
215.86	114.77	138.81	101.09	2.84		OSF1.50	7280.00	7231.79				MinPt-CiCt
192.33	147.29	93.61	45.05	1.96		OSF1.50	9580.00	9531.79				MinPt-CiCt
193.26	149.74	92.89	43.52	1.94		OSF1.50	9750.00	9701.79				MinPt-EOU
194.82	151.61	93.21	43.21	1.93		OSF1.50	9880.00	9831.79				MinPt-ADP
191.25	161.50	83.04	29.74	1.78		OSF1.50	10570.00	10521.79				MinPt-CiCt
179.34	178.15	60.03	1.18	1.51		OSF1.50	11740.17	11691.96				MinPt-CiCt
179.38	178.23	60.02	1.15	1.51		OSF1.50	11750.00	11701.79				MinPts
591.04	179.79	470.67	411.24	4.96		OSF1.50	12482.90	12238.12	OSF>5.00			Exit Alert

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
	10495.09	194.46	10364.95	10300.63	81.57	OSF1.50	22426.47	12285.00				TD
30-025-41774 - EATA FAJITA STATE 6H - Gyro+MWD to 19372ft - A (DefinitiveSurvey) - Warning Alert												
9711.70	246.38	9546.79	9465.32	59.59		OSF1.50	0.00	0.00				Surface
9688.96	246.51	9523.96	9442.45	59.42		OSF1.50	23.00	23.00				WRP
1220.87	367.86	975.09	853.01	4.99		OSF1.50	8790.00	8741.79	OSF<=5.00			Enter Alert
865.04	463.65	555.40	401.38	2.80		OSF1.50	9651.53	9603.31				MinPts
865.08	463.68	555.42	401.40	2.80		OSF1.50	9660.00	9611.79				MinPt-SF
1232.89	371.94	984.39	860.94	4.99		OSF1.50	10530.00	10481.79	OSF>5.00			Exit Alert
2772.70	264.17	2596.09	2508.53	15.83		OSF1.50	12910.00	12285.00				MinPt-CiCt
2770.08	250.43	2602.63	2519.66	16.68		OSF1.50	13500.00	12285.00				MinPt-ADP
2769.96	250.27	2602.61	2519.69	16.69		OSF1.50	13520.00	12285.00				MinPt-EOU
2769.91	250.12	2602.67	2519.80	16.70		OSF1.50	13540.00	12285.00				MinPt-CiCt
2764.93	243.81	2601.89	2521.12	17.11		OSF1.50	13810.00	12285.00				MinPts
2761.91	240.65	2600.98	2521.26	17.31		OSF1.50	13980.00	12285.00				MinPt-ADP
2761.76	240.48	2600.94	2521.28	17.33		OSF1.50	14000.00	12285.00				MinPt-EOU
2761.55	239.41	2601.45	2522.14	17.40		OSF1.50	14080.00	12285.00				MinPt-CiCt
2756.19	233.45	2600.06	2522.74	17.81		OSF1.50	14380.00	12285.00				MinPt-ADP
2755.60	232.70	2599.97	2522.91	17.87		OSF1.50	14440.00	12285.00				MinPt-EOU
2754.31	230.34	2600.25	2523.97	18.04		OSF1.50	14590.00	12285.00				MinPt-ADP
2754.01	229.99	2600.19	2524.03	18.07		OSF1.50	14630.00	12285.00				MinPt-EOU
2753.85	229.44	2600.39	2524.41	18.11		OSF1.50	14690.00	12285.00				MinPt-CiCt
2755.26	221.03	2617.40	2544.23	18.88		OSF1.50	15270.00	12285.00				MinPt-ADP
2755.08	220.81	2617.37	2544.27	18.90		OSF1.50	15300.00	12285.00				MinPt-EOU
2763.38	218.15	2617.45	2545.23	19.12		OSF1.50	15500.00	12285.00				MinPt-ADP
2763.31	218.06	2617.43	2545.25	19.13		OSF1.50	15520.00	12285.00				MinPt-EOU
2763.28	217.98	2617.47	2545.31	19.14		OSF1.50	15540.00	12285.00				MinPt-CiCt
2761.96	210.49	2621.14	2551.48	19.81		OSF1.50	16170.00	12285.00				MinPt-SF
2761.57	210.22	2620.93	2551.36	19.84		OSF1.50	16230.00	12285.00				MinPt-ADP
2761.45	210.07	2620.90	2551.38	19.85		OSF1.50	16260.00	12285.00				MinPt-EOU
2755.86	207.28	2617.17	2548.58	20.08		OSF1.50	16540.00	12285.00				MinPt-SF
2755.78	207.28	2617.09	2548.50	20.08		OSF1.50	16550.00	12285.00				MinPt-ADP
2755.71	207.20	2617.07	2548.51	20.08		OSF1.50	16560.00	12285.00				MinPt-EOU
2754.98	206.11	2617.07	2548.87	20.19		OSF1.50	16620.00	12285.00				MinPt-EOU
2747.65	204.64	2610.72	2543.00	20.28		OSF1.50	17030.00	12285.00				MinPt-CiCt
2747.65	204.65	2610.71	2543.00	20.28		OSF1.50	17040.00	12285.00				MinPts
2747.66	204.66	2610.72	2543.00	20.28		OSF1.50	17050.00	12285.00				MinPt-SF
2750.32	204.52	2613.47	2545.80	20.31		OSF1.50	17380.00	12285.00				MinPt-SF
2745.82	202.17	2610.54	2543.65	20.51		OSF1.50	17660.00	12285.00				MinPts
2734.81	203.27	2598.79	2531.54	20.32		OSF1.50	18080.00	12285.00				MinPt-CiCt
2734.95	203.70	2598.65	2531.26	20.28		OSF1.50	18120.00	12285.00				MinPt-EOU
2735.13	203.92	2598.68	2531.21	20.26		OSF1.50	18140.00	12285.00				MinPt-ADP
2750.86	207.32	2612.14	2543.53	20.04		OSF1.50	18590.00	12285.00				MinPt-SF
2735.34	208.54	2595.81	2526.80	19.81		OSF1.50	19070.00	12285.00				MinPt-CiCt
2735.66	209.49	2595.50	2526.17	19.72		OSF1.50	19130.00	12285.00				MinPt-EOU
2735.92	209.80	2595.55	2526.12	19.69		OSF1.50	19150.00	12285.00				MinPt-ADP
2739.62	211.62	2598.04	2528.00	19.55		OSF1.50	19340.00	12285.00				MinPt-SF
2737.96	212.10	2596.06	2525.86	19.49		OSF1.50	19490.00	12285.00				MinPt-CiCt
2738.07	212.56	2595.86	2525.51	19.45		OSF1.50	19520.00	12285.00				MinPt-EOU
2738.24	213.35	2595.51	2524.90	19.38		OSF1.50	19620.00	12285.00				MinPt-CiCt
2738.63	215.12	2594.72	2523.51	19.22		OSF1.50	19750.00	12285.00				MinPt-EOU
2739.06	215.64	2594.80	2523.42	19.18		OSF1.50	19780.00	12285.00				MinPt-ADP
2745.16	218.70	2598.86	2526.46	18.95		OSF1.50	19970.00	12285.00				MinPt-SF
2745.45	217.66	2599.84	2527.78	19.04		OSF1.50	20000.00	12285.00				MinPt-CiCt
2745.96	219.11	2599.39	2526.85	18.92		OSF1.50	20080.00	12285.00				MinPt-EOU
2746.24	219.46	2599.43	2526.78	18.89		OSF1.50	20100.00	12285.00				MinPts
2745.02	220.98	2597.20	2524.04	18.75		OSF1.50	20250.00	12285.00				MinPt-CiCt
2745.62	222.78	2596.60	2522.83	18.60		OSF1.50	20350.00	12285.00				MinPt-EOU
2745.89	223.14	2596.63	2522.75	18.57		OSF1.50	20370.00	12285.00				MinPts
2742.97	225.38	2592.22	2517.59	18.37		OSF1.50	20580.00	12285.00				MinPts
2735.19	231.09	2580.63	2504.10	17.86		OSF1.50	20910.00	12285.00				MinPt-CiCt
2735.00	232.95	2579.21	2502.06	17.72		OSF1.50	21020.00	12285.00				MinPt-CiCt
2735.60	234.65	2578.66	2500.95	17.59		OSF1.50	21100.00	12285.00				MinPt-EOU
2736.30	235.50	2578.80	2500.80	17.53		OSF1.50	21140.00	12285.00				MinPt-ADP
2844.06	261.46	2669.25	2582.60	16.40		OSF1.50	22426.47	12285.00				MinPt-SF
30-025-40571 - EATA FAJITA STATE 3H - Gyro to 12236ft - A (DefinitiveSurvey) - Warning Alert												
10117.36	32.81	10115.39	10084.56	N/A		MAS = 10.00 (m)	0.00	0.00				Surface
10117.24	32.81	10115.24	10084.43	499815.74		MAS = 10.00 (m)	23.00	23.00				WRP
10117.14	32.81	10114.99	10084.33	60739.55		MAS = 10.00 (m)	70.00	70.00				MinPts
10117.73	32.81	10114.53	10084.92	8292.05		MAS = 10.00 (m)	230.00	230.00				MinPt-EOU
10119.30	32.81	10114.42	10086.49	3487.75		MAS = 10.00 (m)	420.00	420.00				MinPt-EOU
10120.60	32.81	10114.37	10087.79	2376.60		MAS = 10.00 (m)	560.00	560.00				MinPt-EOU
10126.78	32.81	10112.99	10093.97	857.35		MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
10124.59	32.81	10104.97	10091.78	566.59		MAS = 10.00 (m)	1870.00	1869.99				MinPts
10125.28	32.81	10104.48	10092.47	531.66		MAS = 10.00 (m)	1990.00	1989.86				MinPt-EOU
10141.00	41.78	10112.56	10099.22	380.05		OSF1.50	2700.00	2693.84				MinPt-ADP
10143.12	44.25	10113.03	10098.86	358.00		OSF1.50	2820.00	2812.68				MinPt-EOU
10144.96	46.51	10113.37	10098.45	339.97		OSF1.50	2980.00	2971.12				MinPt-ADP
10149.20	53.35	10113.05	10095.85	295.07		OSF1.50	3400.00	3387.04				MinPt-EOU
10150.46	54.81	10113.33	10095.65	286.95		OSF1.50	3510.00	3495.97				MinPt-ADP
10152.51	56.88	10114.00	10095.62	276.22		OSF1.50	3650.00	3634.61				MinPt-ADP
10326.77	115.88	10248.98	10210.89	135.54		OSF1.50	7580.00	7531.79				MinPt-EOU
10317.58	133.45	10228.07	10184.13	117.37		OSF1.50	8770.00	8721.79				MinPt-CiCt
10315.69	144.93	10218.54	10170.77	107.95		OSF1.50	9570.00	9521.79				MinPt-CiCt
10316.54	147.22	10217.86	10169.32	106.26		OSF1.50	9770.00	9721.79				MinPt-EOU
10317.36	148.40	10217.89	10168.96	105.42		OSF1.50	9860.00	9811.79				MinPt-EOU
10320.40	157.73	10214.71	10162.67	99.15		OSF1.50	10500.00	10451.79				MinPt-EOU
10320.99	158.40	10214.85	10162.59	98.73		OSF1.50	10560.00	10511.79				MinPt-ADP
10341.21	171.40	10226.40	10169.81	91.35		OSF1.50	11480.00	11431.79				MinPts
945.76	285.70	754.79	660.06	4.98		OSF1.50	22140.00	12285.00	OSF<=5.00			Enter Alert

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
	915.04	295.22	717.73	619.82	4.67	OSF1.50	22379.08	12285.00				MinPt-CiCt
	915.11	295.40	717.67	619.70	4.66	OSF1.50	22390.00	12285.00				MinPts
	915.56	295.68	717.95	619.89	4.66	OSF1.50	22410.00	12285.00				MinPt-SF
	916.27	295.84	718.54	620.43	4.66	OSF1.50	22426.47	12285.00				TD
30-025-46754 - HEMLOCK 32 STATE 203H - MWD to 14496ft - A (DefinitiveSurvey) - Pass												
	848.66	32.81	846.68	815.85	9845262.52	MAS = 10.00 (m)	0.00	0.00				Surface
	848.64	32.81	846.63	815.84	23053.63	MAS = 10.00 (m)	23.00	23.00				WRP
	358.88	90.54	297.98	268.34	6.03	OSF1.50	5807.70	5771.33				MinPt-CiCt
	359.11	91.20	297.77	267.90	5.99	OSF1.50	5850.00	5813.22				MinPt-EOU
	359.51	91.67	297.86	267.84	5.96	OSF1.50	5880.00	5842.93				MinPt-ADP
	370.93	95.99	306.39	274.93	5.87	OSF1.50	6160.00	6120.21				MinPt-SF
	488.81	129.08	402.22	359.74	5.73	OSF1.50	8440.00	8391.79				MinPt-CiCt
	488.92	129.44	402.08	359.47	5.72	OSF1.50	8470.00	8421.79				MinPt-EOU
	489.02	129.57	402.10	359.45	5.71	OSF1.50	8480.00	8431.79				MinPt-ADP
	502.60	137.59	410.33	365.01	5.53	OSF1.50	9050.00	9001.79				MinPt-SF
	3246.41	120.15	3165.81	3126.26	41.02	OSF1.50	13140.00	12285.00				MinPt-SF
	10985.46	188.52	10859.29	10796.95	88.10	OSF1.50	22426.47	12285.00				TD
30-025-45523 - HEMLOCK 32 STATE 703H - MWD to 17405ft - A (DefinitiveSurvey) - Pass												
	759.61	32.81	757.63	726.80	4320630.34	MAS = 10.00 (m)	0.00	0.00				MinPts
	759.63	32.81	757.62	726.82	26435.42	MAS = 10.00 (m)	23.00	23.00				WRP
	761.35	32.81	756.86	728.54	302.90	MAS = 10.00 (m)	320.00	320.00				MinPt-EOU
	443.67	78.81	390.59	364.85	8.59	OSF1.50	5070.88	5041.68				MinPt-CiCt
	443.97	79.58	390.38	364.39	8.51	OSF1.50	5120.00	5090.32				MinPt-EOU
	444.48	80.21	390.47	364.27	8.45	OSF1.50	5160.00	5129.93				MinPt-ADP
	478.33	91.25	416.96	387.08	7.96	OSF1.50	5880.00	5842.93				MinPt-SF
	647.30	140.46	553.12	506.84	6.98	OSF1.50	9270.00	9221.79				MinPt-EOU
	645.95	150.63	544.99	495.32	6.49	OSF1.50	9980.00	9931.79				MinPt-CiCt
	648.47	158.57	542.21	489.89	6.18	OSF1.50	10530.00	10481.79				MinPt-EOU
	640.49	174.53	523.60	465.96	5.54	OSF1.50	11620.00	11571.79				MinPt-CiCt
	640.79	176.08	522.87	464.71	5.50	OSF1.50	11740.00	11691.79				MinPts
	641.53	176.38	523.40	465.15	5.49	OSF1.50	11780.00	11731.74				MinPt-SF
	10522.80	193.19	10393.50	10329.60	82.33	OSF1.50	22426.47	12285.00				TD
30-025-45272 - YARROW 32 STATE 704H - MWD to 17467ft - A (DefinitiveSurvey) - Pass												
	2136.04	32.81	2134.07	2103.24	6374099.98	MAS = 10.00 (m)	0.00	0.00				MinPts
	2136.07	32.81	2134.04	2103.26	46759.69	MAS = 10.00 (m)	23.00	23.00				WRP
	795.76	119.46	715.58	676.30	10.11	OSF1.50	7880.00	7831.79				MinPt-CiCt
	768.45	161.47	660.26	606.98	7.20	OSF1.50	10792.89	10744.68				MinPt-CiCt
	772.87	174.77	655.82	598.10	6.68	OSF1.50	11700.00	11651.79				MinPt-EOU
	773.14	175.13	655.85	598.01	6.67	OSF1.50	11732.90	11684.69				MinPt-ADP
	775.69	176.05	657.82	599.63	6.65	OSF1.50	11890.00	11839.83				MinPt-SF
	10538.21	194.71	10407.91	10343.50	81.80	OSF1.50	22426.47	12285.00				TD
30-025-40702 - CABO BLANCO STATE 1H - Gyro+MWD to 15472ft - A (DefinitiveSurvey) - Pass												
	1418.59	32.81	1416.61	1385.78	3026405.90	MAS = 10.00 (m)	0.00	0.00				Surface
	1418.55	32.81	1416.53	1385.74	33839.91	MAS = 10.00 (m)	23.00	23.00				WRP
	1406.69	32.81	1392.46	1373.88	114.64	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
	829.24	113.48	753.05	715.76	11.10	OSF1.50	7900.00	7451.79				MinPt-CiCt
	829.92	116.19	751.92	713.73	10.84	OSF1.50	7690.00	7641.79				MinPt-EOU
	830.51	116.89	752.04	713.62	10.79	OSF1.50	7740.00	7691.79				MinPt-ADP
	834.65	120.50	753.78	714.15	10.51	OSF1.50	7990.00	7941.79				MinPt-EOU
	836.41	122.64	754.11	713.77	10.35	OSF1.50	8140.00	8091.79				MinPt-ADP
	809.33	156.41	704.52	652.92	7.83	OSF1.50	10491.88	10443.66				MinPt-CiCt
	809.58	157.09	704.32	652.49	7.80	OSF1.50	10580.00	10531.79				MinPt-EOU
	809.65	157.17	704.33	652.48	7.79	OSF1.50	10590.00	10541.79				MinPt-ADP
	811.15	157.72	705.46	653.43	7.78	OSF1.50	10660.00	10611.79				MinPt-SF
	1417.28	127.29	1331.92	1289.99	16.88	OSF1.50	12900.00	12242.45				MinPt-EOU
	1416.94	126.47	1332.12	1290.46	16.99	OSF1.50	12580.00	12259.94				MinPt-CiCt
	1415.41	127.78	1329.73	1287.63	16.79	OSF1.50	13000.00	12285.00				MinPt-CiCt
	1415.49	128.06	1329.62	1287.43	16.76	OSF1.50	13030.00	12285.00				MinPt-EOU
	1415.63	128.24	1329.64	1287.39	16.74	OSF1.50	13050.00	12285.00				MinPt-ADP
	1426.95	147.03	1328.43	1279.92	14.69	OSF1.50	14150.00	12285.00				MinPt-CiCt
	1427.29	148.14	1328.03	1279.15	14.58	OSF1.50	14210.00	12285.00				MinPt-EOU
	1427.60	148.51	1328.09	1279.09	14.55	OSF1.50	14230.00	12285.00				MinPt-ADP
	1430.79	151.57	1329.24	1279.22	14.29	OSF1.50	14370.00	12285.00				MinPt-CiCt
	1423.34	164.96	1312.87	1258.38	13.05	OSF1.50	14920.00	12285.00				MinPt-CiCt
	1423.97	167.02	1312.13	1256.95	12.89	OSF1.50	15010.00	12285.00				MinPt-EOU
	1418.63	178.97	1298.81	1239.65	11.98	OSF1.50	15460.00	12285.00				MinPt-CiCt
	1418.71	182.03	1296.86	1236.68	11.78	OSF1.50	15580.00	12285.00				MinPt-CiCt
	1419.34	185.54	1295.15	1233.80	11.56	OSF1.50	15720.00	12285.00				MinPt-EOU
	1419.97	186.27	1295.29	1233.70	11.52	OSF1.50	15750.00	12285.00				MinPt-ADP
	1424.55	190.18	1297.27	1234.38	11.31	OSF1.50	15890.00	12285.00				MinPt-ADP
	1431.27	223.06	1282.06	1208.21	9.68	OSF1.50	16890.00	12285.00				MinPt-CiCt
	1431.36	223.49	1281.87	1207.87	9.66	OSF1.50	16910.00	12285.00				MinPt-EOU
	1431.50	223.69	1281.88	1207.81	9.65	OSF1.50	16920.00	12285.00				MinPt-ADP
	1437.72	225.67	1286.78	1212.06	9.61	OSF1.50	17030.00	12285.00				MinPt-SF
	5714.72	199.73	5581.06	5514.99	43.23	OSF1.50	22426.47	12285.00				TD
30-025-46275 - YARROW 32 STATE 204H - MWD to 14481ft - A (DefinitiveSurvey) - Pass												
	2245.10	32.81	2243.12	2212.30	#####	MAS = 10.00 (m)	0.00	0.00				Surface
	2245.10	32.81	2243.07	2212.29	39966.00	MAS = 10.00 (m)	23.00	23.00				WRP
	2244.90	32.81	2240.37	2212.10	878.94	MAS = 10.00 (m)	330.00	330.00				MinPts
	2241.41	32.81	2227.30	2208.60	184.64	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
	903.01	116.41	824.86	786.60	11.78	OSF1.50	7680.00	7631.79				MinPt-CiCt
	899.80	137.87	807.35	761.94	9.89	OSF1.50	9180.00	9131.79				MinPt-CiCt
	897.83	140.01	803.95	757.82	9.71	OSF1.50	9341.55	9293.34				MinPt-CiCt
	897.88	140.23	803.85	757.65	9.70	OSF1.50	9360.00	9311.79				MinPt-EOU
	897.95	140.34	803.86	757.61	9.69	OSF1.50	9370.00	9321.79				MinPt-ADP
	899.64	140.87	805.19	758.77	9.67	OSF1.50	9430.00	9381.79				MinPt-SF

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
	11076.63	190.14	10949.37	10886.49	88.06	OSF1.50	22426.47	12285.00				TD
30-025-40570 - EATA FAJITA STATE 2H - Gyro+MWD to 15410ft - A (DefinitiveSurvey) - Pass												
9769.56	32.81	9767.58	9736.75	N/A		MAS = 10.00 (m)	0.00	0.00				Surface
9769.43	32.81	9767.43	9736.62	500436.45		MAS = 10.00 (m)	23.00	23.00				WRP
9768.87	32.81	9763.65	9736.06	3019.64		MAS = 10.00 (m)	420.00	420.00				MinPts
9769.93	32.81	9756.10	9737.12	824.48		MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
9767.83	32.81	9748.58	9735.02	558.60		MAS = 10.00 (m)	1840.00	1840.00				MinPts
9767.98	32.81	9748.43	9735.17	549.05		MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU
5548.63	167.10	5436.69	5381.52	50.28		OSF1.50	11240.00	11191.79				MinPt-CiCt
5548.72	167.36	5436.61	5381.36	50.20		OSF1.50	11270.00	11221.79				MinPt-EOU
5548.79	167.44	5436.62	5381.34	50.18		OSF1.50	11280.00	11231.79				MinPt-ADP
5570.68	170.98	5456.16	5399.71	49.32		OSF1.50	11732.90	11684.69				MinPt-SF
1117.46	199.66	983.85	917.79	8.45		OSF1.50	17760.00	12285.00				MinPt-CiCt
1117.50	199.75	983.83	917.75	8.44		OSF1.50	17780.00	12285.00				MinPts
1118.16	200.05	984.30	918.11	8.44		OSF1.50	17850.00	12285.00				MinPt-SF
1113.34	200.52	979.16	912.82	8.38		OSF1.50	18141.02	12285.00				MinPt-CiCt
1113.44	200.78	979.09	912.66	8.37		OSF1.50	18170.00	12285.00				MinPt-EOU
1113.52	200.86	979.11	912.66	8.37		OSF1.50	18180.00	12285.00				MinPt-ADP
1120.22	202.78	984.53	917.43	8.34		OSF1.50	18440.00	12285.00				MinPt-SF
1123.28	203.30	987.25	919.98	8.34		OSF1.50	18610.00	12285.00				MinPt-CiCt
1123.49	203.92	987.05	919.57	8.31		OSF1.50	18670.00	12285.00				MinPt-EOU
1123.67	204.12	987.08	919.54	8.31		OSF1.50	18690.00	12285.00				MinPt-ADP
1131.58	207.31	992.87	924.27	8.24		OSF1.50	19020.00	12285.00				MinPt-SF
1134.77	208.10	995.53	926.66	8.23		OSF1.50	19180.00	12285.00				MinPt-EOU
1125.65	218.83	979.26	906.82	7.76		OSF1.50	20100.00	12285.00				MinPt-CiCt
1123.20	223.90	973.43	899.30	7.57		OSF1.50	20440.00	12285.00				MinPt-CiCt
1124.41	227.78	972.05	896.63	7.44		OSF1.50	20670.00	12285.00				MinPt-EOU
1124.69	228.13	972.11	896.56	7.43		OSF1.50	20690.00	12285.00				MinPt-ADP
1124.60	230.06	970.73	894.54	7.37		OSF1.50	20820.00	12285.00				MinPt-CiCt
1118.73	240.10	958.16	878.62	7.02		OSF1.50	21380.00	12285.00				MinPt-CiCt
1119.37	243.23	956.72	876.14	6.94		OSF1.50	21530.00	12285.00				MinPt-EOU
1119.97	243.96	956.83	876.01	6.92		OSF1.50	21560.00	12285.00				MinPt-ADP
1130.47	247.90	964.70	882.56	6.87		OSF1.50	21730.00	12285.00				MinPt-SF
1314.23	254.00	1144.39	1060.23	7.80		OSF1.50	22426.47	12285.00				TD
30-025-46753 - HEMLOCK 32 STATE 202H - MWD to 14813ft - A (DefinitiveSurvey) - Pass												
1236.58	32.81	1234.60	1203.78	3473632.15		MAS = 10.00 (m)	0.00	0.00				MinPts
1236.60	32.81	1234.61	1203.80	106700.00		MAS = 10.00 (m)	23.00	23.00				WRP
1237.24	32.81	1234.42	1204.43	1470.69		MAS = 10.00 (m)	160.00	160.00				MinPt-EOU
1237.50	32.81	1234.43	1204.69	1127.51		MAS = 10.00 (m)	190.00	190.00				MinPt-EOU
1206.74	39.26	1179.98	1167.48	48.20		OSF1.50	2560.00	2555.20				MinPt-CiCt
1175.84	62.23	1133.76	1113.60	29.12		OSF1.50	4050.00	4030.72				MinPt-CiCt
1176.41	67.05	1131.12	1109.35	26.99		OSF1.50	4360.00	4337.71				MinPt-CiCt
1177.42	69.32	1130.62	1108.09	26.10		OSF1.50	4510.00	4486.25				MinPt-EOU
1179.43	73.22	1130.03	1106.21	24.72		OSF1.50	4760.00	4733.82				MinPt-EOU
1180.17	74.12	1130.17	1106.05	24.43		OSF1.50	4820.00	4793.24				MinPt-ADP
1139.90	94.22	1076.55	1045.69	18.44		OSF1.50	6102.29	6063.07				MinPt-CiCt
1140.03	94.59	1076.43	1045.44	18.37		OSF1.50	6130.00	6090.50				MinPt-EOU
1140.13	94.73	1076.45	1045.41	18.34		OSF1.50	6140.00	6100.41				MinPt-ADP
1193.15	139.48	1099.63	1053.67	12.96		OSF1.50	9260.00	9211.79				MinPt-CiCt
1193.31	139.93	1099.48	1053.37	12.92		OSF1.50	9300.00	9251.79				MinPt-EOU
1193.50	140.16	1099.53	1053.35	12.90		OSF1.50	9320.00	9271.79				MinPt-ADP
1195.38	141.09	1100.78	1054.29	12.84		OSF1.50	9410.00	9361.79				MinPt-SF
11011.42	190.27	10884.07	10821.15	87.49		OSF1.50	22426.47	12285.00				TD
30-025-41057 - HEARTTHROB BSX STATE 2H - Gyro+MWD to 15824ft - A (DefinitiveSurvey) - Pass												
10378.73	32.81	10376.75	10345.93	N/A		MAS = 10.00 (m)	0.00	0.00				Surface
10378.60	32.81	10376.60	10345.79	473483.07		MAS = 10.00 (m)	23.00	23.00				WRP
10378.48	32.81	10376.33	10345.67	62306.99		MAS = 10.00 (m)	70.00	70.00				MinPts
10383.00	32.81	10374.56	10350.19	1605.02		MAS = 10.00 (m)	790.00	790.00				MinPt-EOU
10386.42	32.81	10372.62	10353.61	878.44		MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
10383.50	32.81	10366.41	10350.69	677.40		MAS = 10.00 (m)	1820.00	1820.00				MinPts
10383.71	32.81	10366.18	10350.91	658.03		MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU
10527.93	64.81	10484.13	10463.12	250.42		OSF1.50	4680.00	4654.60				MinPt-ADP
10678.83	109.53	10605.28	10569.31	148.42		OSF1.50	7600.00	7551.79				MinPt-CiCt
10674.94	123.44	10592.11	10551.50	131.41		OSF1.50	8590.00	8541.79				MinPt-CiCt
10661.76	151.28	10550.37	10500.49	106.74		OSF1.50	10540.00	10491.79				MinPt-CiCt
10652.31	152.92	10549.83	10499.39	105.59		OSF1.50	10690.00	10641.79				MinPt-EOU
10652.73	153.46	10549.88	10499.27	105.22		OSF1.50	10740.00	10691.79				MinPt-ADP
10698.26	161.79	10589.87	10536.48	100.17		OSF1.50	11732.90	11684.69				MinPt-SF
1323.24	244.44	1159.78	1078.80	8.16		OSF1.50	22426.47	12285.00				MinPts
30-025-46274 - YARROW 32 STATE 203H - MWD to 14771ft - A (DefinitiveSurvey) - Pass												
2275.66	32.81	2273.68	2242.85	6058621.84		MAS = 10.00 (m)	0.00	0.00				MinPts
2275.69	32.81	2273.67	2242.88	55551.98		MAS = 10.00 (m)	23.00	23.00				WRP
2275.88	32.81	2273.60	2243.07	7601.12		MAS = 10.00 (m)	80.00	80.00				MinPt-EOU
2276.24	32.81	2273.57	2243.43	3290.76		MAS = 10.00 (m)	140.00	140.00				MinPt-EOU
2295.29	32.81	2281.11	2262.48	188.02		MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
1327.00	110.39	1252.87	1216.61	18.28		OSF1.50	7261.29	7213.08				MinPt-CiCt
1328.25	141.16	1233.61	1187.10	14.26		OSF1.50	9360.00	9311.79				MinPt-CiCt
1328.36	141.51	1233.48	1186.84	14.23		OSF1.50	9390.00	9341.79				MinPt-EOU
1328.44	141.63	1233.48	1186.81	14.21		OSF1.50	9400.00	9351.79				MinPt-ADP
1340.49	144.66	1243.51	1195.83	14.04		OSF1.50	9690.00	9641.79				MinPt-SF
10963.87	189.25	10837.20	10774.62	87.58		OSF1.50	22426.47	12285.00				TD
30-025-40571-0100 - EATA FAJITA STATE 3H ST01 - Gyro+MWD to 15640ft - A (DefinitiveSurvey) - Pass												
10117.36	32.81	10115.39	10084.56	N/A		MAS = 10.00 (m)	0.00	0.00				Surface
10117.24	32.81	10115.24	10084.43	499815.74		MAS = 10.00 (m)	23.00	23.00				WRP
10117.14	32.81	10114.99	10084.33	60739.55		MAS = 10.00 (m)	70.00	70.00				MinPts

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major	
10117.73	32.81	10114.53	10084.92	8292.05	MAS = 10.00 (m)	230.00	230.00					MinPt-EOU
10119.30	32.81	10114.42	10086.49	3487.75	MAS = 10.00 (m)	420.00	420.00					MinPt-EOU
10120.60	32.81	10114.37	10087.79	2376.60	MAS = 10.00 (m)	560.00	560.00					MinPt-EOU
10126.78	32.81	10112.99	10093.97	857.35	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU
10124.59	32.81	10104.97	10091.78	566.59	MAS = 10.00 (m)	1870.00	1869.99					MinPts
10125.28	32.81	10104.48	10092.47	531.66	MAS = 10.00 (m)	1990.00	1989.86					MinPt-EOU
5622.92	174.15	5506.28	5448.77	48.87	OSF1.50	11240.00	11191.79					MinPt-CiCt
5622.98	174.40	5506.18	5448.58	48.80	OSF1.50	11270.00	11221.79					MinPt-EOU
5623.12	174.57	5506.20	5448.55	48.75	OSF1.50	11290.00	11241.79					MinPt-ADP
5644.22	178.01	5525.01	5466.21	47.98	OSF1.50	11732.90	11684.69					MinPt-SF
1439.09	253.91	1269.31	1185.18	8.54	OSF1.50	17540.00	12285.00					MinPt-SF
1410.06	246.72	1245.08	1163.34	8.62	OSF1.50	18350.00	12285.00					MinPt-SF
1408.67	246.10	1244.10	1162.57	8.63	OSF1.50	18480.00	12285.00					MinPt-ADP
1408.64	246.07	1244.09	1162.57	8.63	OSF1.50	18490.00	12285.00					MinPt-EOU
1408.62	246.00	1244.12	1162.62	8.63	OSF1.50	18510.00	12285.00					MinPt-CiCt
1406.69	242.64	1244.43	1164.05	8.74	OSF1.50	18960.00	12285.00					MinPt-SF
1405.98	242.57	1243.76	1163.41	8.74	OSF1.50	19060.00	12285.00					MinPt-CiCt
1405.98	242.58	1243.76	1163.40	8.74	OSF1.50	19070.00	12285.00					MinPts
1406.09	242.61	1243.85	1163.48	8.74	OSF1.50	19100.00	12285.00					MinPt-SF
1406.07	242.04	1244.21	1164.04	8.76	OSF1.50	19260.00	12285.00					MinPt-CiCt
1406.08	242.05	1244.21	1164.02	8.76	OSF1.50	19270.00	12285.00					MinPt-EOU
1406.09	242.07	1244.21	1164.02	8.76	OSF1.50	19280.00	12285.00					MinPt-ADP
1406.14	242.10	1244.25	1164.05	8.76	OSF1.50	19300.00	12285.00					MinPt-SF
1401.19	242.48	1239.04	1158.71	8.71	OSF1.50	19720.00	12285.00					MinPt-CiCt
1401.27	242.75	1238.94	1158.53	8.70	OSF1.50	19760.00	12285.00					MinPt-EOU
1401.39	242.88	1238.97	1158.51	8.70	OSF1.50	19780.00	12285.00					MinPt-ADP
1401.70	243.00	1239.20	1158.70	8.70	OSF1.50	19870.00	12285.00					MinPt-SF
1400.55	243.87	1237.47	1156.68	8.66	OSF1.50	20037.97	12285.00					MinPt-CiCt
1400.62	244.58	1237.07	1156.05	8.63	OSF1.50	20160.00	12285.00					MinPt-CiCt
1400.78	245.02	1236.94	1155.76	8.62	OSF1.50	20210.00	12285.00					MinPt-EOU
1400.93	245.20	1236.96	1155.73	8.61	OSF1.50	20230.00	12285.00					MinPt-ADP
1426.25	252.02	1257.74	1174.23	8.53	OSF1.50	20890.00	12285.00					MinPt-SF
1473.83	265.94	1296.04	1207.89	8.35	OSF1.50	21800.00	12285.00					MinPt-SF
1538.70	271.94	1356.90	1266.75	8.53	OSF1.50	22210.00	12285.00					MinPt-SF
1590.85	273.04	1408.33	1317.81	8.78	OSF1.50	22426.47	12285.00					TD

30-025-42487 - EATA FAJITA STATE 13H - Gyro-MWD to 14250ft - A (DefinitiveSurvey) - Pass

9989.07	32.81	9987.09	9956.26	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
9988.93	32.81	9986.93	9956.13	466529.44	MAS = 10.00 (m)	23.00	23.00					WRP
9988.82	32.81	9986.68	9956.02	59969.25	MAS = 10.00 (m)	70.00	70.00					MinPts
9991.31	32.81	9984.01	9958.50	1878.16	MAS = 10.00 (m)	670.00	670.00					MinPt-EOU
5407.73	145.34	5310.30	5262.39	56.42	OSF1.50	9690.00	9641.79					MinPt-CiCt
5407.83	145.58	5310.24	5262.25	56.33	OSF1.50	9720.00	9671.79					MinPt-EOU
5407.89	145.66	5310.25	5262.24	56.30	OSF1.50	9730.00	9681.79					MinPt-ADP
5586.44	155.82	5482.02	5430.62	54.32	OSF1.50	11090.00	11041.79					MinPt-SF
2656.83	194.83	2526.44	2462.00	20.60	OSF1.50	17811.32	12285.00					MinPt-CiCt
2656.95	195.20	2526.32	2461.76	20.56	OSF1.50	17860.00	12285.00					MinPt-EOU
2657.15	195.42	2526.36	2461.72	20.54	OSF1.50	17890.00	12285.00					MinPt-ADP
2675.45	200.60	2541.21	2474.84	20.14	OSF1.50	18320.00	12285.00					MinPt-SF
2676.07	198.24	2543.41	2477.83	20.39	OSF1.50	18540.00	12285.00					MinPt-CiCt
2676.07	198.29	2543.38	2477.78	20.39	OSF1.50	18550.00	12285.00					MinPts
2671.89	202.06	2536.68	2469.83	19.97	OSF1.50	19010.00	12285.00					MinPt-CiCt
2672.17	202.97	2536.35	2469.19	19.88	OSF1.50	19070.00	12285.00					MinPt-EOU
2672.69	203.60	2536.45	2469.09	19.83	OSF1.50	19110.00	12285.00					MinPt-ADP
2690.99	210.38	2550.23	2480.60	19.31	OSF1.50	19670.00	12285.00					MinPt-SF
2691.18	209.44	2551.06	2481.74	19.40	OSF1.50	19690.00	12285.00					MinPt-CiCt
2691.71	211.15	2550.44	2480.56	19.25	OSF1.50	19800.00	12285.00					MinPt-EOU
2692.84	212.88	2550.42	2479.96	19.10	OSF1.50	19930.00	12285.00					MinPt-EOU
2694.35	214.70	2550.72	2479.66	18.95	OSF1.50	20050.00	12285.00					MinPt-ADP
2696.59	217.45	2551.12	2479.14	18.72	OSF1.50	20250.00	12285.00					MinPt-EOU
2696.83	217.79	2551.14	2479.04	18.69	OSF1.50	20270.00	12285.00					MinPt-ADP
2697.11	218.01	2551.27	2479.10	18.68	OSF1.50	20310.00	12285.00					MinPts
2692.47	221.45	2544.34	2471.02	18.35	OSF1.50	20530.00	12285.00					MinPt-CiCt
2692.97	223.08	2543.76	2469.90	18.22	OSF1.50	20610.00	12285.00					MinPt-EOU
2693.43	223.69	2543.81	2469.75	18.17	OSF1.50	20640.00	12285.00					MinPts
2681.74	229.25	2528.40	2452.48	17.65	OSF1.50	20990.00	12285.00					MinPt-CiCt
2682.89	232.97	2527.08	2449.92	17.38	OSF1.50	21180.00	12285.00					MinPt-EOU
2683.77	234.02	2527.26	2449.75	17.30	OSF1.50	21230.00	12285.00					MinPt-ADP
2697.95	241.55	2536.42	2456.41	16.85	OSF1.50	21600.00	12285.00					MinPt-SF
2699.92	242.81	2537.55	2457.12	16.77	OSF1.50	21690.00	12285.00					MinPt-ADP
2701.00	244.80	2537.30	2456.20	16.64	OSF1.50	21790.00	12285.00					MinPt-EOU
2701.62	245.54	2537.42	2456.08	16.60	OSF1.50	21820.00	12285.00					MinPt-ADP
2769.20	258.34	2596.47	2510.86	16.16	OSF1.50	22426.47	12285.00					MinPt-SF



Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24 Proposal Geodetic Report

Def Plan

Report Date:	September 10, 2024 - 04:50 PM (UTC 0)	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	COTERRA	Vertical Section Azimuth:	179.610 (GRD North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Coterra Tres Equis 5 State Pad Lot 3 / Tres Equis 5-8 State 352H	TVD Reference Datum:	RKB
Well:	Tres Equis 5-8 State 352H	TVD Reference Elevation:	3680.100 ft above MSL
Borehole:	Tres Equis 5-8 State 352H	Seabed / Ground Elevation:	3657.100 ft above MSL
UBHI / API#:	Unknown / Unknown	Magnetic Declination:	6.150°
Survey Name:	Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24	Total Gravity Field Strength:	998.4381mgm (9.80665 Based)
Survey Date:	September 10, 2024	Gravity Model:	GARM1
Tort / AHD / DOI / ERD Ratio:	108.954° / 11072.614 ft / 6.343 / 0.901	Total Magnetic Field Strength:	47304.79 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.771°
Location Lat / Long:	32°15'10.36931"N , 103°35'52.25018"W	Declination Date:	September 09, 2024
Location Grid N/E Y/X:	N 456509.970 ftUS , E 768704.140 ftUS	Magnetic Declination Model:	HOGM 2024
CRS Grid Convergence Angle:	0.393°	North Reference:	Grid North
Grid Scale Factor:	0.9999683(Applied)	Grid Convergence Used:	0.393°
Version / Patch:	2024.4.0.4	Total Corr Mag North->Grid North:	5.758°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)
SHL [387 FNL, 1558 FWL]	0.00	0.00	0.00	0.00	-3.680.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727			
Nudge, Build 2"/100ft	1,800.00	0.00	65.76	1,800.00	-1,880.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
Hold	2,199.75	8.00	65.76	2,198.46	-1,481.64	-11.26	11.43	25.39	456,521.40	768,729.53	32.25291131	-103.59776490	2.00	2.00	0.00
Drop 2"/100ft	6,893.15	8.00	65.76	6,846.23	3,166.13	-275.25	279.49	620.61	456,789.45	769,324.73	32.25363685	-103.59583372	0.00	0.00	0.00
Hold	7,292.90	0.00	65.76	7,244.69	3,564.59	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	2.00	-2.00	0.00
KOP, Build 10"/100ft	11,732.90	0.00	65.76	11,694.69	8,004.59	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
Build 5"/100ft	12,482.90	75.00	169.61	12,238.12	8,558.02	131.70	-126.78	722.59	456,383.19	769,426.70	32.25251827	-103.59551291	10.00	10.00	0.00
Landing Point	12,842.19	90.00	179.61	12,285.00	8,604.90	485.12	-479.99	755.37	456,029.99	769,459.49	32.25154682	-103.59541472	5.00	4.17	2.78
Tres Equis 5-8 State 352H - PBHL [100FSL, 2310FWL]	22,426.47	90.00	179.61	12,285.00	8,604.90	10,069.41	-10,064.06	820.52	446,446.25	769,524.63	32.22520302	-103.59541699	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISOWSA0 3 - D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	11,700.000	1/100.000	7.5 – 12.25 – 8.75	3.375 – 9.625 – 7		A001Mb_MWD		Tres Equis 5-8 State 352H / Coterra Tres Equis 5-8
	1	11,700.000	22,437.993	1/100.000	8.75 – 6	7 – 5		A008Mb_MWD+IFR1+MS		Tres Equis 5-8 State 352H / Coterra Tres Equis 5-8

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,366.000	17.500	13.375	
5,000.000	12.250	9.625	
11,817.000	8.750	7.000	
22,426.472	6.000	5.000	



Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24 Proposal Geodetic Report

Def Plan

Report Date: September 10, 2024 - 04:48 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure / Slot: Coterra Tres Equis 5 State Pad Lot 3 / Tres Equis 5-8 State 352H
Well: Tres Equis 5-8 State 352H
Borehole: Tres Equis 5-8 State 352H
UBH / API#: Unknown / Unknown
Survey Name: Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24
Survey Date: September 09, 2024
Tort / AHD / DDI / ERD Ratio: 108.954' / 11072.614 ft / 6.343 / 0.901
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°15'10.3693"N, 103°35'52.2501"W
Location Grid N/E Y/X: N 456509.970 RUS, E 768704.140 RUS
CRS Grid Convergence Angle: 0.393"
Grid Scale Factor: 0.9999683(Applied)
Version / Patch: 2024.0.0.4

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.610' (GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3680.100 ft above MSL
Sealed / Ground Elevation: 3657.100 ft above MSL
Magnetic Declination: 6.150"
Total Gravity Field Strength: 996.4381mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47304.79 nT
Magnetic Dip Angle: 59.771"
Declination Date: September 09, 2024
Magnetic Declination Model: HDGM 2024
North Reference: Grid North
Grid Convergence Used: 0.393"
Total Corr Mag North->Grid North: 5.758"
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSECC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS ("/100ft)	BR ("/100ft)	TR ("/100ft)
SHL [387' FNL, 1558' FWL]	0.00	0.00	0.00	0.00	-3.680.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727			
	100.00	0.00	65.76	100.00	-3.580.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	200.00	0.00	65.76	200.00	-3.480.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	300.00	0.00	65.76	300.00	-3.380.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	400.00	0.00	65.76	400.00	-3.280.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	500.00	0.00	65.76	500.00	-3.180.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	600.00	0.00	65.76	600.00	-3.080.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	700.00	0.00	65.76	700.00	-2.980.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	800.00	0.00	65.76	800.00	-2.880.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	900.00	0.00	65.76	900.00	-2.780.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,000.00	0.00	65.76	1,000.00	-2.680.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,100.00	0.00	65.76	1,100.00	-2.580.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,200.00	0.00	65.76	1,200.00	-2.480.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
Rustler	1,285.00	0.00	65.76	1,285.00	-2.395.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,300.00	0.00	65.76	1,300.00	-2.380.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
A3 Top	1,370.00	0.00	65.76	1,370.00	-2.310.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,400.00	0.00	65.76	1,400.00	-2.280.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,500.00	0.00	65.76	1,500.00	-2.180.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
A3 Base	1,510.00	0.00	65.76	1,510.00	-2.170.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,600.00	0.00	65.76	1,600.00	-2.080.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
Top Salt/Salado	1,700.00	0.00	65.76	1,700.00	-1.980.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,795.00	0.00	65.76	1,795.00	-1.885.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
Nudge, Build 2"/100ft	1,800.00	0.00	65.76	1,800.00	-1.880.10	0.00	0.00	0.00	456,509.97	768,704.14	32.25288036	-103.59784727	0.00	0.00	0.00
	1,900.00	2.00	65.76	1,899.98	-1.780.12	-0.71	0.72	1.59	456,510.69	768,705.73	32.25288230	-103.59784211	2.00	2.00	0.00
	2,000.00	4.00	65.76	1,999.94	-1.680.26	-2.82	2.87	6.36	456,512.84	768,710.50	32.25288812	-103.59782663	2.00	2.00	0.00
	2,100.00	6.00	65.76	2,099.45	-1.580.65	-6.35	6.44	14.31	456,516.41	768,718.45	32.25289781	-103.59780085	2.00	2.00	0.00
Hold	2,199.75	8.00	65.76	2,198.46	-1.481.64	-11.26	11.43	25.39	456,521.40	768,729.53	32.25291131	-103.59776490	2.00	2.00	0.00
	2,200.00	8.00	65.76	2,198.70	-1.481.40	-11.27	11.45	25.42	456,521.42	768,729.56	32.25291135	-103.59776490	0.00	0.00	0.00
	2,300.00	8.00	65.76	2,297.73	-1.382.37	-16.90	17.16	38.10	456,527.13	768,742.24	32.25292681	-103.59772365	0.00	0.00	0.00
	2,400.00	8.00	65.76	2,396.76	-1.283.34	-22.52	22.87	50.79	456,532.84	768,754.92	32.25294227	-103.59768250	0.00	0.00	0.00
	2,500.00	8.00	65.76	2,495.79	-1.184.31	-28.15	28.58	63.47	456,538.55	768,767.61	32.25295773	-103.59764136	0.00	0.00	0.00
	2,600.00	8.00	65.76	2,594.81	-1.085.29	-33.77	34.29	76.15	456,544.26	768,780.29	32.25297319	-103.59760021	0.00	0.00	0.00
	2,700.00	8.00	65.76	2,693.84	-986.26	-39.40	40.00	88.83	456,549.97	768,792.97	32.25298865	-103.59755906	0.00	0.00	0.00
	2,800.00	8.00	65.76	2,792.87	-887.23	-45.02	45.72	101.51	456,555.68	768,805.65	32.25300410	-103.59751792	0.00	0.00	0.00
	2,900.00	8.00	65.76	2,891.90	-788.20	-50.65	51.43	114.20	456,561.40	768,818.33	32.25301956	-103.59747677	0.00	0.00	0.00
	3,000.00	8.00	65.76	2,990.93	-689.17	-56.27	57.14	126.88	456,567.11	768,831.01	32.25303502	-103.59743562	0.00	0.00	0.00
	3,100.00	8.00	65.76	3,089.95	-590.15	-61.90	62.85	139.56	456,572.82	768,843.70	32.25305048	-103.59739448	0.00	0.00	0.00
	3,200.00	8.00	65.76	3,188.98	-491.12	-67.52	68.52	152.24	456,578.53	768,856.38	32.25306594	-103.59735333	0.00	0.00	0.00
	3,300.00	8.00	65.76	3,288.01	-392.09	-73.15	74.27	164.92	456,584.24	768,869.06	32.25308140	-103.59731218	0.00	0.00	0.00
	3,400.00	8.00	65.76	3,387.04	-293.06	-78.77	79.98	177.61	456,589.95	768,881.74	32.25309686	-103.59727104	0.00	0.00	0.00
	3,500.00	8.00	65.76	3,486.07	-194.03	-84.40	85.69	190.29	456,595.66	768,894.42	32.25311232	-103.59722989	0.00	0.00	0.00
	3,600.00	8.00	65.76	3,585.09	-95.01	-90.02	91.41	202.97	456,601.37	768,907.10	32.25312778	-103.59718874	0.00	0.00	0.00
	3,700.00	8.00	65.76	3,684.12	4.02	-95.65	97.12	215.65	456,607.08	768,919.79	32.25314323	-103.59714760	0.00	0.00	0.00
	3,800.00	8.00	65.76	3,783.15	103.05	-101.27	102.83	228.33	456,612.79	768,932.47	32.25315869	-103.59710645	0.00	0.00	0.00
	3,900.00	8.00	65.76	3,882.18	202.08	-106.90	108.54	241.02	456,618.51	768,945.15	32.25317415	-103.59706531	0.00	0.00	0.00
	4,000.00	8.00	65.76	3,981.21	301.11	-112.52	114.29	254.73	456,624.22	768,957.83	32.25318961	-103.59702416	0.00	0.00	0.00
	4,100.00	8.00	65.76	4,080.23	400.13	-118.15	119.96	268.38	456,629.93	768,970.51	32.25320507	-103.59698301	0.00	0.00	0.00
	4,200.00	8.00	65.76	4,179.26	499.16	-123.77	125.67	279.06	456,635.64	768,983.19	32.25322053	-103.59694187	0.00	0.00	0.00
	4,300.00	8.00	65.76	4,278.29	598.19	-129.40	131.38	291.74	456,641.35	768,995.88	32.25323599	-103.59690072	0.00	0.00	0.00
	4,400.00	8.00	65.76	4,377.32	697.22	-135.02	137.10	304.43	456,647.06	769,008.56	32.25325145	-103.59685957	0.00	0.00	0.00
	4,500.00	8.00	65.76	4,476.35	796.25	-140.65	142.81	317.11	456,652.77	769,021.24	32.25326690	-103.59681843	0.00	0.00	0.00
	4,600.00	8.00	65.76	4,575.37	895.27	-146.27	148.52	329.79	456,658.48	769,033.92	32.25328236	-103.59677728	0.00	0.00	0.00
	4,700.00	8.00	65.76	4,674.40	994.30	-151.89	154.23	342.47	456,664.19	769,046.60	32.25329782	-103.59673613	0.00	0.00	0.00
	4,800.00	8.00	65.76	4,773.43	1,093.32	-157.52	159.94	355.16	456,669.91	769,059.28	32.25331328	-103.59669499	0.00	0.00	0.00
	4,900.00	8.00	65.76	4,872.46	1,192.36	-163.14	165.65	367.84	456,675.62	769,071.97	32.25332874	-103.59665384	0.00	0.00	0.00
	5,000.00	8.00	65.76	4,971.49	1,291.39	-168.77	171.36	380.52	456,681.33	769,084.65	32.25334420	-103.59661269	0.00	0.00	0.00
Base Salt/Lamar	5,100.00	8.00	65.76	5,070.51	1,390.41	-174.39	177.07	393.20	456,687.04	769,097.33	32.25335966	-103.59657155	0.00	0.00	0.00
	5,170.17	8.00	65.76	5,140.00	1,459.90	-178.34	181.08	402.10	456,691.05	769,106.23	32.25337505	-103.59653042	0.00	0.00	0.00
	5,200.00	8.00	65.76	5,169.54	1,489.44	-180.02	182.7								

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
Bone Spring Line	9,073.21	0.00	65.76	9,025.00	5,344.90	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,100.00	0.00	65.76	9,051.79	5,371.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,200.00	0.00	65.76	9,151.79	5,471.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
Leonard/Avalon Sand	9,253.21	0.00	65.76	9,205.00	5,524.90	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
Avalon Shale	9,268.21	0.00	65.76	9,220.00	5,539.90	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,300.00	0.00	65.76	9,251.79	5,571.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,400.00	0.00	65.76	9,351.79	5,671.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,500.00	0.00	65.76	9,451.79	5,771.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,600.00	0.00	65.76	9,551.79	5,871.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,700.00	0.00	65.76	9,651.79	5,971.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,800.00	0.00	65.76	9,751.79	6,071.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	9,900.00	0.00	65.76	9,851.79	6,171.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,000.00	0.00	65.76	9,951.79	6,271.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,100.00	0.00	65.76	10,051.79	6,371.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
1st Bone Spring Sand	10,193.21	0.00	65.76	10,145.00	6,464.90	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,200.00	0.00	65.76	10,151.79	6,471.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,300.00	0.00	65.76	10,251.79	6,571.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,400.00	0.00	65.76	10,351.79	6,671.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,500.00	0.00	65.76	10,451.79	6,771.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,600.00	0.00	65.76	10,551.79	6,871.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,700.00	0.00	65.76	10,651.79	6,971.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,800.00	0.00	65.76	10,751.79	7,071.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
2nd Bone Spring Sand	10,878.21	0.00	65.76	10,830.00	7,149.90	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	10,900.00	0.00	65.76	10,851.79	7,171.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,000.00	0.00	65.76	10,951.79	7,271.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,100.00	0.00	65.76	11,051.79	7,371.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,200.00	0.00	65.76	11,151.79	7,471.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,300.00	0.00	65.76	11,251.79	7,571.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,400.00	0.00	65.76	11,351.79	7,671.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,500.00	0.00	65.76	11,451.79	7,771.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,600.00	0.00	65.76	11,551.79	7,871.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,700.00	0.00	65.76	11,651.79	7,971.69	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
KOP, Build 10"/100ft	11,732.90	0.00	65.76	11,684.69	8,004.59	-286.52	290.92	646.00	456,800.88	769,350.12	32.25366780	-103.59575134	0.00	0.00	0.00
	11,800.00	6.71	169.61	11,751.64	8,071.54	-282.65	287.06	648.71	456,797.02	769,350.83	32.25365717	-103.59674914	10.00	10.00	0.00
	11,900.00	16.71	169.61	11,849.43	8,169.33	-252.69	280.36	650.36	456,787.08	769,354.48	32.25360233	-103.59737708	10.00	10.00	0.00
	12,000.00	26.71	169.61	11,942.22	8,262.12	-220.31	230.78	650.36	456,740.75	769,361.14	32.25360230	-103.5971702	10.00	10.00	0.00
3rd Bone Spring Sand	12,084.95	35.20	169.61	12,015.00	8,334.90	-183.31	187.84	664.90	456,697.81	769,368.02	32.25339412	-103.5969250	10.00	10.00	0.00
	12,100.00	36.71	169.61	12,027.18	8,347.08	-174.61	179.15	666.49	456,689.11	769,370.61	32.25336020	-103.5968754	10.00	10.00	0.00
	12,200.00	46.71	169.61	12,101.74	8,421.64	-109.17	113.79	678.48	456,623.75	769,382.59	32.25318032	-103.5965023	10.00	10.00	0.00
	12,300.00	56.71	169.61	12,163.63	8,483.53	-31.97	36.68	692.61	456,546.65	769,396.73	32.25296813	-103.5960622	10.00	10.00	0.00
	12,400.00	66.71	169.61	12,210.96	8,530.86	54.64	-49.82	708.48	456,460.15	769,412.59	32.25273008	-103.5955684	10.00	10.00	0.00
	12,462.90	70.00	169.61	12,238.12	8,558.02	131.70	-126.78	722.59	456,383.19	769,426.70	32.25251827	-103.59551291	10.00	10.00	0.00
	12,500.00	75.71	169.61	12,242.45	8,562.35	148.00	-143.07	725.50	456,366.91	769,428.62	32.25247345	-103.59550385	5.00	4.14	2.81
	12,600.00	79.86	172.95	12,263.61	8,583.51	244.74	-239.71	739.87	456,270.27	769,443.99	32.25220756	-103.59549592	5.00	4.15	2.85
	12,700.00	84.04	175.73	12,277.61	8,597.51	343.30	-338.21	749.62	456,171.77	769,453.73	32.25193663	-103.59543019	5.00	4.18	2.78
	12,800.00	88.23	178.46	12,284.35	8,604.25	442.95	-437.82	754.66	456,072.16	769,458.78	32.25166274	-103.59541608	5.00	4.19	2.73
	12,842.19	90.00	179.61	12,285.00	8,604.90	485.12	-479.99	755.37	456,029.99	769,459.49	32.25154682	-103.59541472	5.00	4.20	2.72
	12,900.00	90.00	179.61	12,285.00	8,604.90	542.94	-537.81	755.76	455,972.18	769,459.88	32.25138791	-103.59541474	0.00	0.00	0.00
	13,000.00	90.00	179.61	12,285.00	8,604.90	642.94	-637.80	756.44	455,872.19	769,460.56	32.25111304	-103.59541476	0.00	0.00	0.00
	13,100.00	90.00	179.61	12,285.00	8,604.90	742.94	-737.80	757.08	455,772.19	769,461.24	32.25083819	-103.59541479	0.00	0.00	0.00
	13,200.00	90.00	179.61	12,285.00	8,604.90	842.94	-837.80	757.80	455,672.20	769,461.92	32.25056331	-103.59541481	0.00	0.00	0.00
	13,300.00	90.00	179.61	12,285.00	8,604.90	942.94	-937.80	758.48	455,572.20	769,462.60	32.25028845	-103.59541483	0.00	0.00	0.00
	13,400.00	90.00	179.61	12,285.00	8,604.90	1,042.94	-1,037.80	759.16	455,472.21	769,463.28	32.25001359	-103.59541486	0.00	0.00	0.00
	13,500.00	90.00	179.61	12,285.00	8,604.90	1,142.94	-1,137.79	759.84	455,372.21	769,463.96	32.24973872	-103.59541488	0.00	0.00	0.00
	13,600.00	90.00	179.61	12,285.00	8,604.90	1,242.94	-1,237.79	760.52	455,272.22	769,464.64	32.24946386	-103.59541491	0.00	0.00	0.00
	13,700.00	90.00	179.61	12,285.00	8,604.90	1,342.94	-1,337.79	761.20	455,172.23	769,465.32	32.24918900	-103.59541493	0.00	0.00	0.00
	13,800.00	90.00	179.61	12,285.00	8,604.90	1,442.94	-1,437.78	761.88	455,072.23	769,466.00	32.24891411	-103.59541496	0.00	0.00	0.00
	13,900.00	90.00	179.61	12,285.00	8,604.90	1,542.94	-1,537.78	762.56	454,972.24	769,466.68	32.24863927	-103.59541498	0.00	0.00	0.00
	14,000.00	90.00	179.61	12,285.00	8,604.90	1,642.94	-1,637.78	763.24	454,872.24	769,467.36	32.24836440	-103.59541500	0.00	0.00	0.00
	14,100.00	90.00	179.61	12,285.00	8,604.90	1,742.94	-1,737.78	763.92	454,772.25	769,468.04	32.24808954	-103.59541503	0.00	0.00	0.00
	14,200.00	90.00	179.61	12,285.00	8,604.90	1,842.94	-1,837.78	764.60	454,672.25	769,468.71	32.24781468	-103.59541505	0.00	0.00	0.00
	14,300.00	90.00	179.61	12,285.00	8,604.90	1,942.94	-1,937.77	765.28	454,572.26	769,469.39	32.24753981	-103.59541508	0.00	0.00	0.00
	14,400.00	90.00	179.61	12,285.00	8,604.90	2,042.94	-2,037.77	765.96	454,472.27	7					

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	21,100.00	90.00	179.61	12,285.00	8,604.90	8,742.94	-8,737.62	811.50	447,772.65	769,515.61	32.22884903	-103.59541669	0.00	0.00	0.00
	21,200.00	90.00	179.61	12,285.00	8,604.90	8,842.94	-8,837.62	812.18	447,672.65	769,516.29	32.22857417	-103.59541671	0.00	0.00	0.00
	21,300.00	90.00	179.61	12,285.00	8,604.90	8,942.94	-8,937.61	812.86	447,572.66	769,516.97	32.22829930	-103.59541673	0.00	0.00	0.00
	21,400.00	90.00	179.61	12,285.00	8,604.90	9,042.94	-9,037.61	813.54	447,472.66	769,517.65	32.22802444	-103.59541676	0.00	0.00	0.00
	21,500.00	90.00	179.61	12,285.00	8,604.90	9,142.94	-9,137.61	814.22	447,372.67	769,518.33	32.22774957	-103.59541678	0.00	0.00	0.00
	21,600.00	90.00	179.61	12,285.00	8,604.90	9,242.94	-9,237.61	814.90	447,272.68	769,519.01	32.22747471	-103.59541680	0.00	0.00	0.00
	21,700.00	90.00	179.61	12,285.00	8,604.90	9,342.94	-9,337.60	815.58	447,172.68	769,519.69	32.22719984	-103.59541683	0.00	0.00	0.00
	21,800.00	90.00	179.61	12,285.00	8,604.90	9,442.94	-9,437.60	816.26	447,072.69	769,520.37	32.22692498	-103.59541685	0.00	0.00	0.00
	21,900.00	90.00	179.61	12,285.00	8,604.90	9,542.94	-9,537.60	816.94	446,972.69	769,521.05	32.22665011	-103.59541687	0.00	0.00	0.00
	22,000.00	90.00	179.61	12,285.00	8,604.90	9,642.94	-9,637.60	817.62	446,872.70	769,521.73	32.22637525	-103.59541690	0.00	0.00	0.00
	22,100.00	90.00	179.61	12,285.00	8,604.90	9,742.94	-9,737.59	818.30	446,772.70	769,522.41	32.22610038	-103.59541692	0.00	0.00	0.00
	22,200.00	90.00	179.61	12,285.00	8,604.90	9,842.94	-9,837.59	818.98	446,672.71	769,523.09	32.22582552	-103.59541694	0.00	0.00	0.00
	22,300.00	90.00	179.61	12,285.00	8,604.90	9,942.94	-9,937.59	819.66	446,572.71	769,523.77	32.22555065	-103.59541696	0.00	0.00	0.00
	22,400.00	90.00	179.61	12,285.00	8,604.90	10,042.94	-10,037.59	820.34	446,472.72	769,524.45	32.22527579	-103.59541699	0.00	0.00	0.00
Tres Equis 5-8 State 352H - PBI-	22,426.47	90.00	179.61	12,285.00	8,604.90	10,069.41	-10,064.06	820.52	446,446.25	769,524.63	32.22520302	-103.59541699	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISCSWA3 3 - D 95 % Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	11,700.000	1/100.000	5 – 12.25 – 8.75 3.375 – 9.625 – 7			A001Mb_MWD		Tres Equis 5-8 State 352H / Coterra Tres Equis 5-8
	1	11,700.000	22,437.993	1/100.000	8.75 – 6	7 – 5		A008Mb_MWD+IFR1+MS		Tres Equis 5-8 State 352H / Coterra Tres Equis 5-8

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,366.000	17.500	13.375	
5,000.000	12.250	9.625	
11,817.000	8.750	7.000	
22,426.472	6.000	5.000	



COTERRA

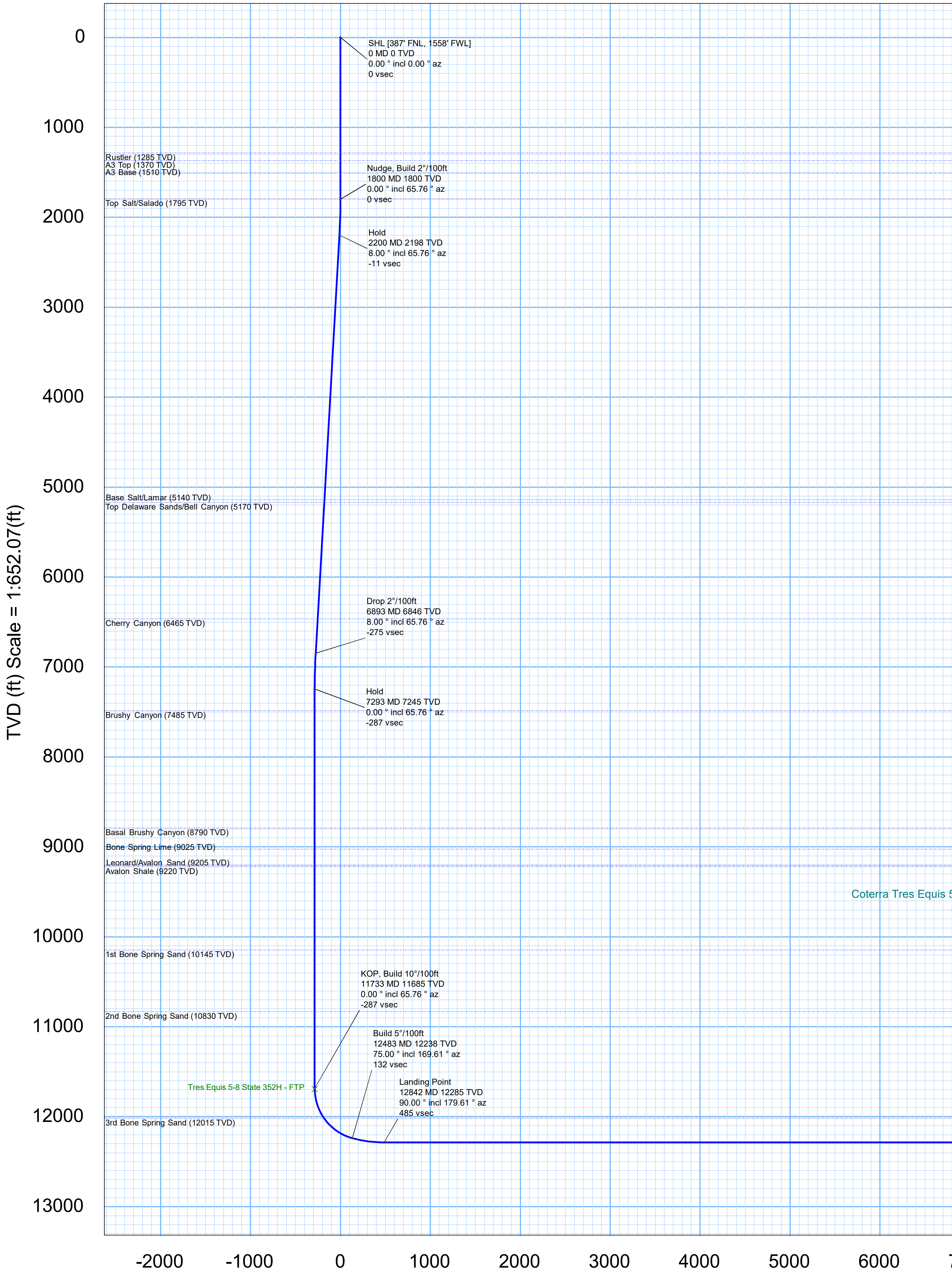
Rev0



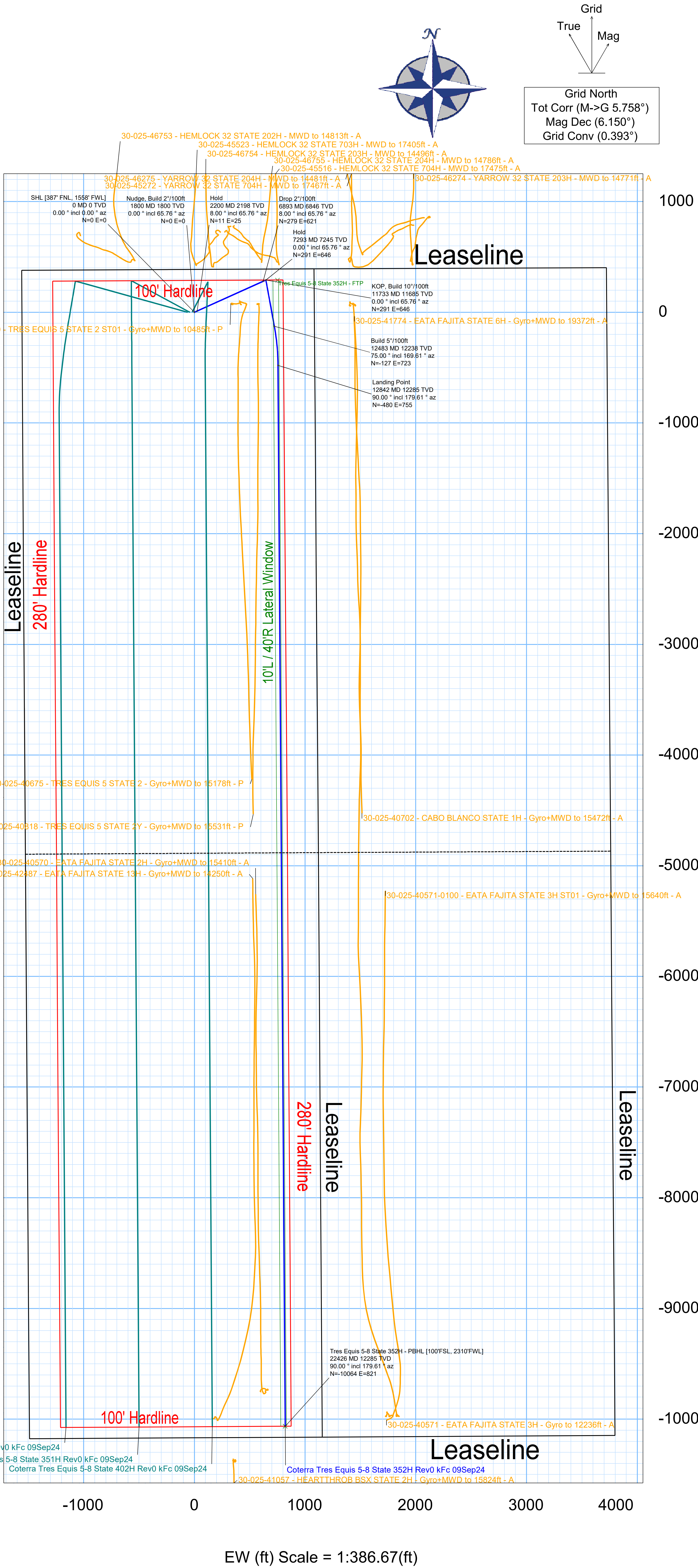
Borehole: Tres Equis 5-8 State 352H		Well: Tres Equis 5-8 State 352H		Field: NM Lea County (NAD 83)		Structure: Coterra Tres Equis 5 State Pad Lot 3	
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Gravity & Magnetic Parameters					Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	HDGM 2024	Dip:	59.771°	Date:	09-Sep-2024	Lat:	N 32 15 10.37	Northings:	456509.97ftUS	Grid Conv:	0.3925°	Slot:	Tres Equis 5-8	TVD Ref:	RKB (3680.100 ft above MSL)	
MagDec:	6.15°	FS:	47304.79nT	Gravity FS:	998.438mgn (9.80665 Based)	Lon:	W 103 35 52.25	Easting:	768704.14ftUS	Scale Fact:	0.9999683	Plan:	State 352H Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24			

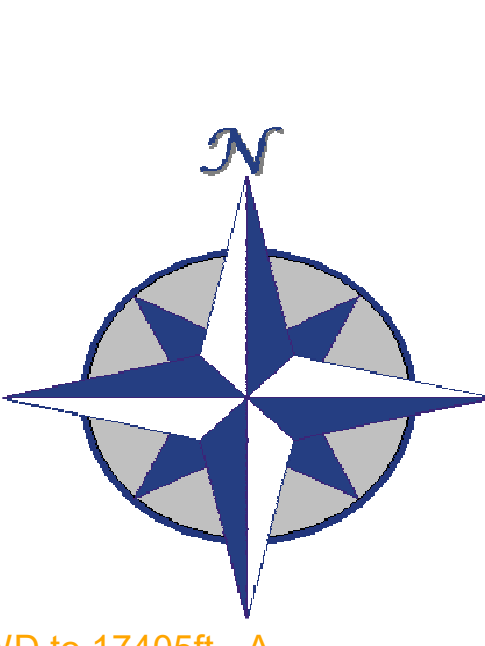
Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [387° FNL, 1558° FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	1285.00	0.00	65.76	1285.00	0.00	0.00	0.00	0.00
A3 Top	1370.00	0.00	65.76	1370.00	0.00	0.00	0.00	0.00
A3 Base	1510.00	0.00	65.76	1510.00	0.00	0.00	0.00	0.00
Top Salt/Salado	1795.00	0.00	65.76	1795.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	1800.00	0.00	65.76	1800.00	0.00	0.00	0.00	0.00
Hold	2199.75	8.00	65.76	2198.46	-11.26	11.43	25.39	2.00
Base Salt/Lamar	5170.17	8.00	65.76	5140.00	-178.34	181.08	402.10	0.00
Top Delaware Sands/Bell Canyon	5200.46	8.00	65.76	5170.00	-180.04	182.81	405.94	0.00
Cherry Canyon	6508.17	8.00	65.76	6465.00	-253.60	257.50	571.79	0.00
Drop 2°/100ft	6893.15	8.00	65.76	6846.23	-275.25	279.49	620.61	0.00
Hold	7292.90	0.00	65.76	7244.69	-286.52	290.92	646.00	2.00
Brushy Canyon	7533.21	0.00	65.76	7485.00	-286.52	290.92	646.00	0.00
Basal Brushy Canyon	8838.21	0.00	65.76	8790.00	-286.52	290.92	646.00	0.00
Bone Spring Lime	9073.21	0.00	65.76	9025.00	-286.52	290.92	646.00	0.00
Leonard/Avalon Sand	9253.21	0.00	65.76	9205.00	-286.52	290.92	646.00	0.00
Avalon Shale	9268.21	0.00	65.76	9220.00	-286.52	290.92	646.00	0.00
1st Bone Spring Sand	10193.21	0.00	65.76	10145.00	-286.52	290.92	646.00	0.00
2nd Bone Spring Sand	10878.21	0.00	65.76	10830.00	-286.52	290.92	646.00	0.00
KOP, Build 10°/100ft	11732.90	0.00	65.76	11684.69	-286.52	290.92	646.00	0.00
3rd Bone Spring Sand	12084.95	35.20	169.61	12015.00	-183.31	187.84	664.90	10.00
Build 5°/100ft	12482.90	75.00	169.61	12238.12	131.70	-126.78	722.59	10.00
Landing Point	12842.19	90.00	179.61	12285.00	485.12	-479.99	755.37	5.00
Tres Equis 5-8 State 352H - PBHL [100°FSL, 2310°FWL]	22426.47	90.00	179.61	12285.00	10069.41	-10064.06	820.52	0.00



NS (ft) Scale = 1:386.67



EW (ft) Scale = 1:386.67(ft)



Grid North
Tot Corr (M->G 5.758°)
Mag Dec (6.150°)
Grid Conv (0.393°)

Leaseline

Leaseline

Leaseline

Coterra Tres Equis 5-8 State 401H Rev0 kFc 09Sep24

Coterra Tres Equis 5-8 State 351H Rev0 kFc 09Sep24

Coterra Tres Equis 5-8 State 402H Rev0 kFc 09Sep24

Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24

Coterra Tres Equis 5-8 State 352H Rev0 kFc 09Sep24

Tres Equis 5-8 State 352H - PBHL [100°FSL, 2310°FWL]

22426 MD 12285 TVD

90.00° incl 179.61° az

N=-10064 E=821

10069 vsec

1. Geological Formations

TVD of target 12,285

Pilot Hole TD N/A

MD at TD 22,426

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1285	N/A	
Top of Salt	1795	N/A	
Base of Salt/Lamar	5140	N/A	
Top Delaware Sands/Bell Canyon	5170	Hydrocarbons	
Cherry Canyon	6465	Hydrocarbons	
Brushy Canyon	7485	Hydrocarbons	
Basal Brushy Canyon	8790	N/A	
Bone Spring Lime	9025	N/A	
Leonard/Avalon Sand	9205	Hydrocarbons	
Avalon Shale	9220	Hydrocarbons	
1st Bone Spring Sand	10145	Hydrocarbons	
2nd Bone Spring Sand	10830	Hydrocarbons	
3rd Bone Spring Sand	12015	Hydrocarbons	
3rd Bone Spring Sand - Target	12285	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1370	1370	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.25	2.92	4.90
12 1/4	0	5170	5140	9-5/8"	40.00	HCK-55	LT&C	1.43	1.48	2.73
8 3/4	0	11732	11732	7"						
8 3/4	11732	12482	12238	7"	29.00	L-80	BT&C	1.23	1.42	46.07
6	11532	22426	12285	4-1/2"	11.60	P-110	BT&C	1.21	1.71	42.02
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Cimarex Energy Co., Tres Equis 5 8 State Com 352H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	664	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	177	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	975	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	416	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	738	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	51
Production	4970	25
Completion System	12282	10

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	5M	Annular	5M	100% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		
8 3/4	13 5/8	5M	Annular	5M	50% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6	13 5/8	5M	Annular	5M	100% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.				
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.				
	N	Are anchors required by manufacturer?			

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1370'	Fresh Water	7.83 - 8.33	28	N/C
1370' to 5170'	Brine Water	9.50 - 10.00	30-32	N/C
5170' to 12482'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
12842' to 22426'	OBM	9.30 - 9.80	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
X	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval
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7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	6260 psi
Abnormal Temperature	No

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X	H ₂ S is present
X	H ₂ S plan is attached

8. Other Facets of Operation**9. Wellhead****BOPE Additional Information & Testing**

1. After running the first string of casing, a 5M BOP/BOPE system with 5M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (5K for all BOPE, including the annular). For the low test, the system will be tested to 250 psi.
2. All BOP equipment will be tested utilizing a conventional test plug.
3. A remote kill line is included in the BOPE system
4. All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst.
5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Wellhead

1. The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.
2. A packoff will be installed after running and cementing the production casing. This packoff will be tested to 5K psi.