

Well Name: DOS EQUIS 12-13 FEDERAL COM	Well Location: T24S / R32E / SEC 12 / NWNW /	County or Parish/State:
Well Number: 89H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM02889	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550138	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY

Notice of Intent

Sundry ID: 2763427

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

Date Sundry Submitted: 11/28/2023 Time Sundry Submitted: 07:02

Date proposed operation will begin: 02/01/2024

Procedure Description: Casing change from previously approved APD. Bottom hole change from previously approved APD.

NOI Attachments

Procedure Description

Dos_Equis_12_13_89H_Sundry_Submittal_11282023_20231211131349.pdf

Conditions of Approval

Specialist Review

12_24_32_B_Sundry_ID_2763427_Dos_Equis_12_13_Federal_Com_89H_Lea_NM02889_CIMAREX_ENERGY_COM
PANY_13_22g_2_27_2024_LV_20240228145952.pdf

Dos_Equis_12_13_Fed_Com_89H_Dr_COA_20240228145952.pdf

Well Name: DOS EQUIS 12-13 FEDERAL COM	Well Location: T24S / R32E / SEC 12 / NWNE /	County or Parish/State:
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US Well Number: 3002550138	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY

Operator

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

Operator Electronic Signature: SHELLY BOWEN	Signed on: DEC 11, 2023 01:13 PM
Name: CIMAREX ENERGY COMPANY	
Title: Regulatory Analyst	
Street Address: 6001 DEAUVILLE BLVD STE 300N	
City: MIDLAND	State: TX
Phone: (432) 620-1644	
Email address: DL_PBUREGULATORY@COTERRA.COM	

Field

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

BLM Point of Contact

BLM POC Name: LONG VO	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5759885402	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 02/28/2024
Signature: Long Vo	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	11. Country or Parish, State

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

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NWNE / 300 FNL / 1510 FEL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238635 / LONG: -103.62467 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 300 FNL / 990 FEL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238636 / LONG: -103.622989 (TVD: 9283 feet, MD: 9323 feet)

PPP: NWNE / 0 FNL / 990 FEL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.224944 / LONG: -103.623 (TVD: 9600 feet, MD: 14412 feet)

PPP: NESE / 2640 FNL / 990 FEL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.232203 / LONG: -103.622994 (TVD: 9600 feet, MD: 11772 feet)

BHL: SESE / 100 FSL / 990 FEL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210701 / LONG: -103.62301 (TVD: 9600 feet, MD: 19595 feet)

CONFIDENTIAL

Cimarex Energy Co. respectfully requests to change the approved APD as follows:

Well Name	API	S/T/R	SHL Old	SHL New	S/T/R	BHL Old	BHL New	TVD Old	TVD New	MD Old	MD New
Dos Equis 12-13 Fed Com 52H	30-025-50124	12/24S/32E	195 FNL/ 1480 FWL	NO CHANGE	13/24S/32E	100 FSL/1520 FWL	100 FSL/660 FWL	9,600'	9,980'	19,753	20,072
Dos Equis 12-13 Fed Com 51H	30-025-50123	12/24S/32E	195 FNL/ 1500 FWL	NO CHANGE	13/24S/32E	100 FSL/1540 FWL	100 FSL/990 FWL	9,600'	11,550'	19,665	21,677
Dos Equis 12-13 Fed Com 50H	30-025-50122	12/24S/32E	195 FNL/ 1520 FWL	NO CHANGE	13/24S/32E	100 FSL/1560 FWL	100 FSL/1388 FWL	12,900'	10,620'	23,019	20,654
Dos Equis 12-13 Fed Com 49H	30-025-50121	12/24S/32E	195 FNL/ 1540 FWL	195 FNL/1540 FWL	13/24S/32E	100 FSL/1430 FWL	100 FSL/1980 FWL	12,300'	9,980'	22,376	20,256
Dos Equis 12-13 Fed Com 48H	30-025-50120	12/24S/32E	255 FNL/1580 FWL	195 FNL/1560 FWL	13/24S/32E	100 FSL/1386 FWL	100 FSL/2310 FWL	12,390'	11,550'	22,379	21,551
Dos Equis 12-13 Fed Com 77H	30-025-50136	12/24S/32E	300 FNL/ 2450 FEL	NO CHANGE	13/24S/32E	100 FSL/2130 FEL	100 FSL/2588 FEL	12,900'	10,620'	22,970	20,825
Dos Equis 12-13 Fed Com 76H	30-025-50126	12/24S/32E	300 FNL/ 2430 FEL	NO CHANGE	13/24S/32E	100 FSL/2100 FEL	100 FSL/1980 FEL	9,600'	9,980'	19,654	20,141
Dos Equis 12-13 Fed Com 75H	30-025-50125	12/24S/32E	300 FNL/ 2410 FEL	NO CHANGE	13/24S/32E	100 FSL/2000 FEL	100 FSL/1650 FEL	9,600'	11,550'	19,510	21,718
Dos Equis 12-13 Fed Com 89H	30-025-50138	12/24S/32E	300 FNL/ 1510 FEL	NO CHANGE	13/24S/32E	100 FSL/990 FEL	100FSL/1275 FEL	9,600'	10,620'	19,595	20,753
Dos Equis 12-13 Fed Com 88H	30-025-50206	12/24S/32E	300 FNL/ 1490 FEL	NO CHANGE	13/24S/32E	100 FSL/330 FEL	100 FSL/660 FEL	9,600'	9,980'	19,706	20,186
Dos Equis 12-13 Fed Com 87H	30-025-50137	12/24S/32E	360 FNL/ 1450 FEL	300 FNL/ 1470 FEL	13/24S/32E	100FSL /1386 FEL	100 FSL/330 FEL	12,340'	11,550'	22,258	21,803

Sundry ID	Well Name	API	S/T/R	SHL Old	SHL New	S/T/R	BHL Old	BHL New	TVD Old	TVD New	MD Old	MD New
2763427	Dos Equis 12-13 Fed Com 89H	30-025-50138	12/24S/32E	300 FNL/ 1510 FEL	NO CHANGE	13/24S/32E	100 FSL/990 FEL	100FSL/1275 FEL	9,600'	10,620'	19,595	20,753

Drilling Plan Amendments

Sec 1 - Geologic Formations See attached drilling plan.

Sec 2 - Blowout Prevention

Old	New
5M	2M
10M	3M
	5M

Section 3 - Casing										
Old										
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	1235	1235	13-3/8"	48.00	H-40	ST&C	1.38	3.23	5.43
12 1/4	0	4900	4900	9-5/8"	36.00	J-55	ST&C	1.21	1.38	2.23
8 3/4	0	9159	9159	5-1/2"	20.00	L-80	LT&C	2.06	2.14	2.17
8 3/4	9159	19595	9600	5-1/2"	20.00	L-80	BT&C	1.97	2.00	52.83
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

New										
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	1216	1216	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.40	3.28	5.52
12 1/4	0	4931	4927	9-5/8"	40.00	HCK-55	LT&C	1.49	1.54	2.85
8 3/4	0	10154	10154	7"	29.00	L-80	LT&C	1.48	1.72	1.89
8 3/4	10154	10904	10703	7"	29.00	L-80	LT&C	1.40	1.63	36.87
6	9654	20754	10750	4-1/2"	11.60	P-110	LT&C	1.43	2.01	21.95
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

Section 4 - Cement						
Old						
Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	599	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	160	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	919	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	286	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	385	10.30	3.64	22.18		Lead: Tuned Light + LCM
	2536	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

New						
Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	589	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	158	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	926	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	289	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	333	10.30	3.64	22.18		Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	731	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Section 5 - Circulating Medium				
Old				
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1235'	Fresh Water	7.83 - 8.33	28	N/C
1235' to 4900'	Brine Water	9.50 - 10.00	30-32	N/C
4900' to 19595'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C

New				
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1216'	Fresh Water	7.83 - 8.33	28	N/C
1216' to 4931'	Brine Water	9.50 - 10.00	30-32	N/C
4931' to 10904'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11263' to 20754'	OBM	9.00 - 9.50	50-70	N/C

Section 7 - Pressure

Old	New
4492	5310

1. Geological Formations

TVD of target 10,750

Pilot Hole TD N/A

MD at TD 20,754

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1163	N/A	
Top of Salt	1545	N/A	
Base of Salt	4907	N/A	
Bell Canyon	4947	N/A	
Cherry Canyon	5874	N/A	
Brushy Canyon	7310	N/A	
Basal Brushy Canyon	8631	N/A	
Bone Spring Lime	8850	Hydrocarbons	
Leonard	9031	Hydrocarbons	
Avalon	9283	Hydrocarbons	
1st Bone Spring Sand	9982	Hydrocarbons	
2nd Bone Spring Sand	10558	Hydrocarbons	
Upper 2nd Sand - Target	10750	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	1216	1216	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	1.40	3.28	5.52
12 1/4	0	4931	4927	9-5/8"	40.00	HCK-55	LT&C	1.49	1.54	2.85
8 3/4	0	10154	10154	7"	29.00	L-80	LT&C	1.48	1.72	1.89
8 3/4	10154	10904	10703	7"	29.00	L-80	LT&C	1.40	1.63	36.87
6	9654	20754	10750	4-1/2"	11.60	P-110	LT&C	1.43	2.01	21.95
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., Dos Equis 12-13 Federal Com 89H

	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 ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	589	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	158	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	926	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	289	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	333	10.30	3.64	22.18		Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	731	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	4731	25
Completion System	10704	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	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other		
6	13 5/8	5M	Annular	X	50% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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 1216'	Fresh Water	7.83 - 8.33	28	N/C
1216' to 4931'	Brine Water	9.50 - 10.00	30-32	N/C
4931' to 10904'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11263' to 20754'	OBM	9.00 - 9.50	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
---	-----------------------------

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
-------------------------	----------

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5310 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**

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Variance Request #1: Skid Rig after Cementing Surface Casing

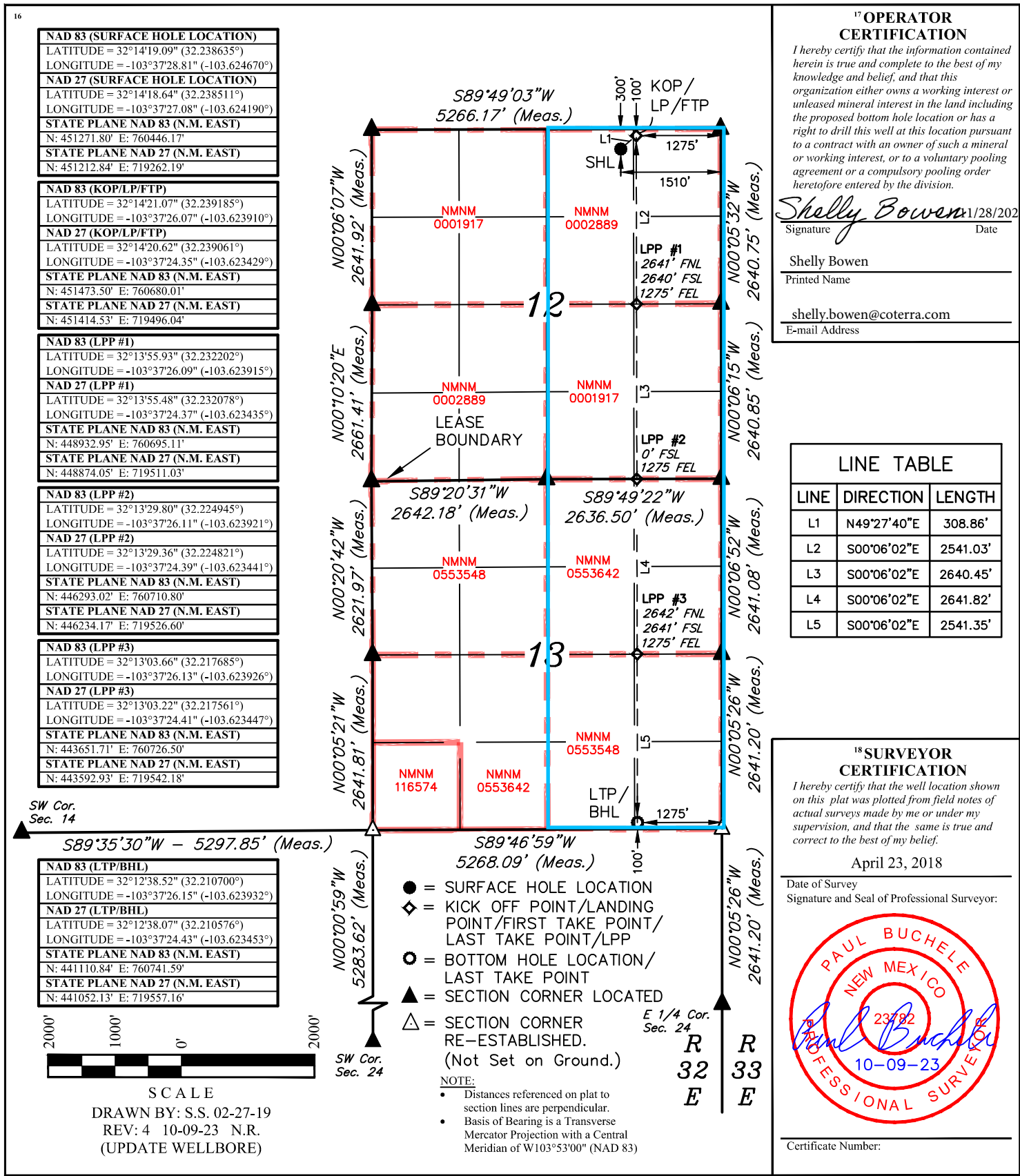
Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells.

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

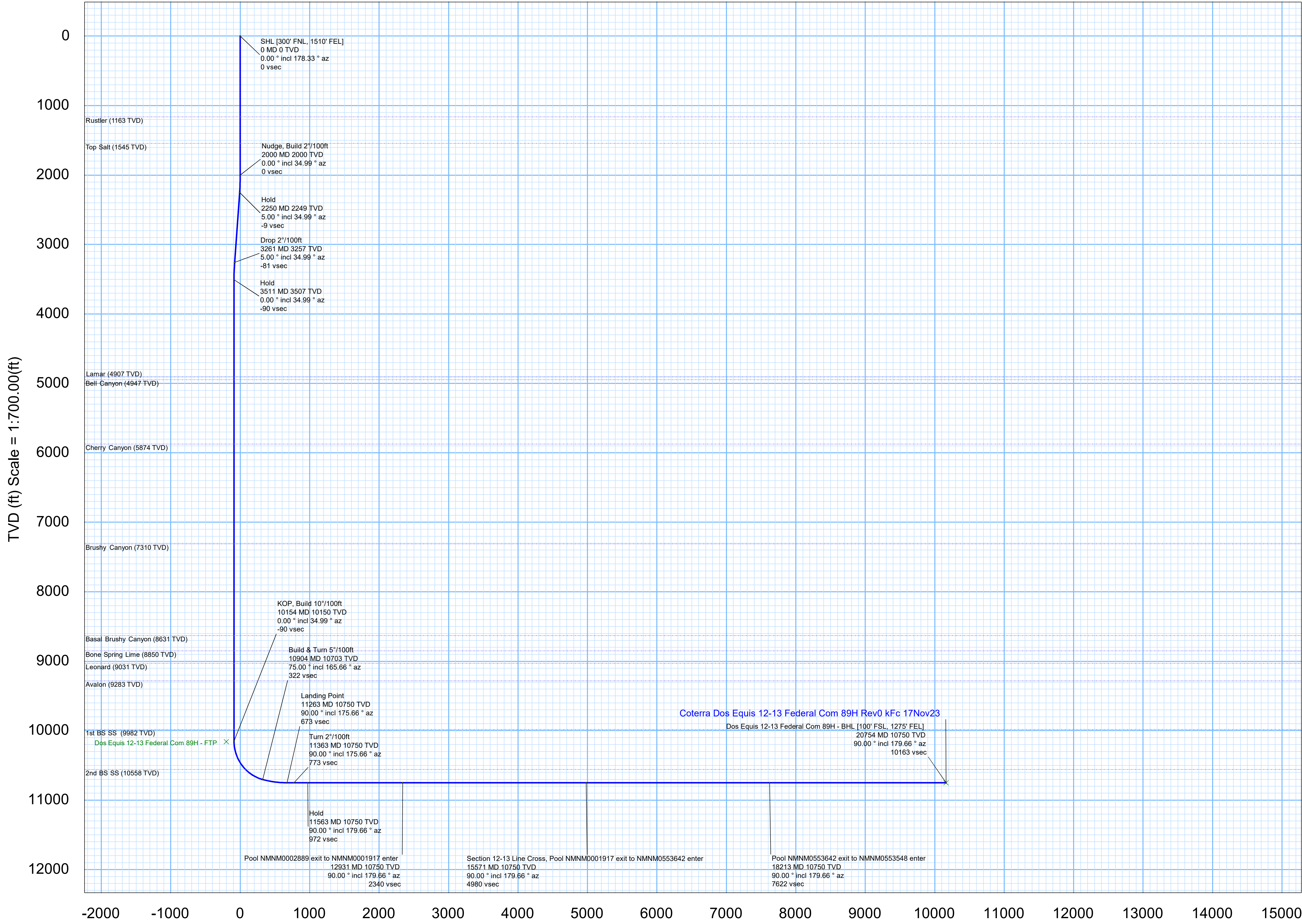
☐ AMENDED REPORT



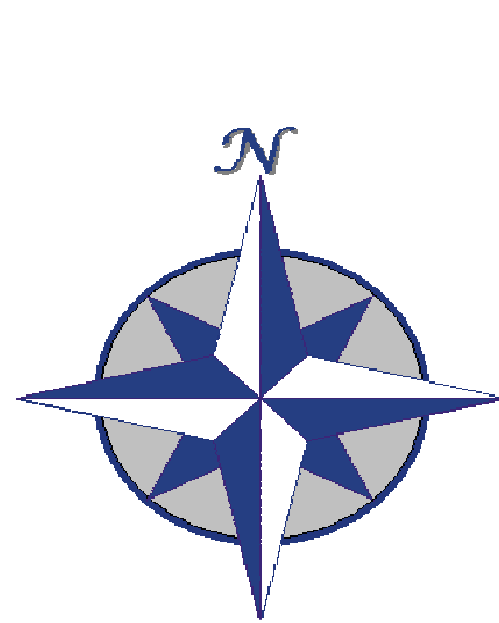
Borehole:	Well:	Field:	Structure:
Dos Equis 12-13 Federal Com 89H	Dos Equis 12-13 Federal Com 89H	NM Lea County (NAD 83)	Coterra Dos Equis 12-13 Federal Com Pad 6

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2022	Dip:	59.792°	Date:	17-Nov-2023	Lat:	N 32 14 19.09	NAD83 New Mexico State Plane, Eastern Zone, US Feet	TVD Ref:	RKB (3623.400 ft above MSL)	
MagDec:	6.209°	FS:	47445.33nT	Gravity FS:	998.439mgn (9.80665 Based)	Lon:	W 103 37 28.81	Northing:	451271.8ftUS	Plan:	Dos Equis 12-13 Federal Com 89H Coterra Dos Equis 12-13 Federal Com 89H Rev0 kFc 17Nov23
								Easting:	760446.17ftUS		
								Grid Conv:	0.378°		
								Scale Fact:	0.99996408		

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [300' FNL, 1510' FEL]	0.00	0.00	178.33	0.00	0.00	0.00	0.00	
Rustler	1163.00	0.00	34.99	1163.00	0.00	0.00	0.00	0.00
Top Salt	1545.00	0.00	34.99	1545.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	2000.00	0.00	34.99	2000.00	0.00	0.00	0.00	0.00
Hold	2249.79	5.00	34.99	2249.48	-8.88	8.92	6.24	2.00
Drop 2°/100ft	3261.37	5.00	34.99	3257.21	-80.75	81.08	56.76	0.00
Hold	3511.17	0.00	34.99	3506.69	-89.62	90.00	63.00	2.00
Lamar	4911.48	0.00	34.99	4907.00	-89.62	90.00	63.00	0.00
Bell Canyon	4951.48	0.00	34.99	4947.00	-89.62	90.00	63.00	0.00
Cherry Canyon	5878.48	0.00	34.99	5874.00	-89.62	90.00	63.00	0.00
Brushy Canyon	7314.48	0.00	34.99	7310.00	-89.62	90.00	63.00	0.00
Basal Brushy Canyon	8635.48	0.00	34.99	8631.00	-89.62	90.00	63.00	0.00
Bone Spring Lime	8854.48	0.00	34.99	8850.00	-89.62	90.00	63.00	0.00
Leonard	9035.48	0.00	34.99	9031.00	-89.62	90.00	63.00	0.00
Avalon	9287.48	0.00	34.99	9283.00	-89.62	90.00	63.00	0.00
1st BS SS	9986.48	0.00	34.99	9982.00	-89.62	90.00	63.00	0.00
KOP, Build 10°/100ft	10154.17	0.00	34.99	10149.69	-89.62	90.00	63.00	0.00
2nd BS SS	10608.66	45.45	165.66	10558.00	76.30	-75.68	105.36	10.00
Build & Turn 5°/100ft	10904.17	75.00	165.66	10703.12	322.43	-321.43	168.18	10.00
Landing Point	11263.45	90.00	175.66	10750.00	672.87	-671.55	225.22	5.00
Turn 2°/100ft	11363.45	90.00	175.66	10750.00	772.63	-771.26	232.79	0.00
Hold	11563.47	90.00	179.66	10750.00	972.48	-971.07	240.95	2.00
Pool NMNM0002889 exit to NMNM0001917 enter	12931.00	90.00	179.66	10750.00	2340.02	-2338.58	249.06	0.00
Section 12-13 Line Cross, Pool NMNM0001917 exit to NMNM0553642 enter	15571.00	90.00	179.66	10750.00	4980.02	-4978.53	264.71	0.00
Pool NMNM0553642 enter	18213.00	90.00	179.66	10750.00	7622.02	-7620.49	280.37	0.00
Dos Equis 12-13 Federal Com 89H - BHL [100' FSL, 1275' FEL]	20753.90	90.00	179.66	10750.00	10162.92	-10161.35	295.43	0.00



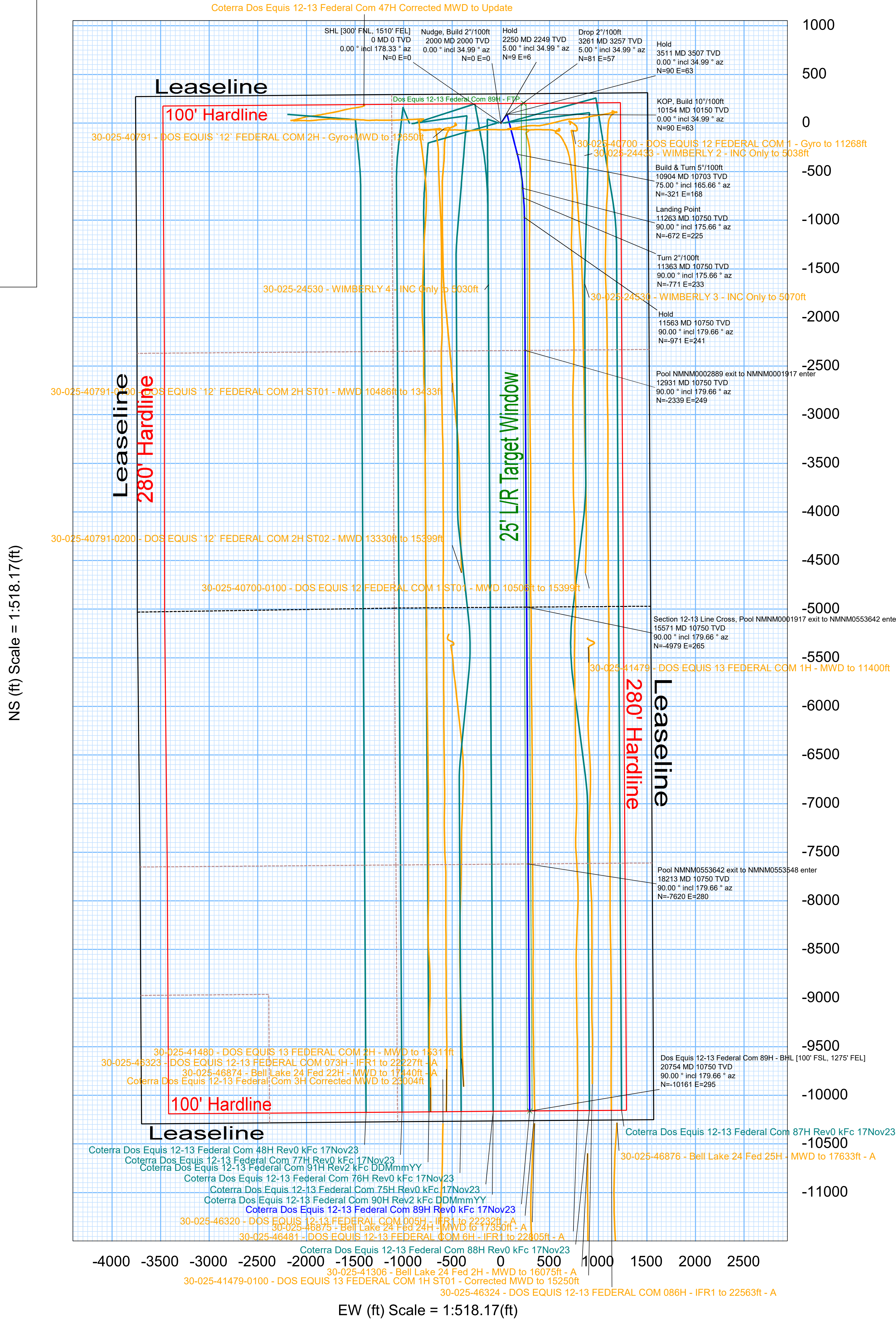
Vertical Section (ft) Azim = 179.66° Scale = 1:700.00(ft) Origin = 0N/-S, 0E/-W



Grid
True
Mag

Grid North
Tot Corr (M->G 5.831°)
Mag Dec (6.209°)
Grid Conv (0.378°)

CONTROLLED	
Plan ref	Coterra Dos Equis 12-13 Federal Com 89H Rev0 kFc 17Nov23
Drawing ref	
Copy number	of 3
Date	21-Nov-2023
1	Client
2	Client
3	Office
4	Office
Copy number	for





Coterra Dos Equis 12-13 Federal Com 89H Rev0 kFc 17Nov23 Proposal
Geodetic Report
Def Plan

Report Date:	November 21, 2023 - 09:19 PM (UTC 0)	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	COTERRA	Vertical Section Azimuth:	179.660 °(GRID North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Coterra Dos Equis 12-13 Federal Com Pad 6 / Dos Equis 12-13 Federal	TVD Reference Datum:	RKB
Well:	Dos Equis 12-13 Federal Com 89H	TVD Reference Elevation:	3623.400 ft above MSL
Borehole:	Dos Equis 12-13 Federal Com 89H	Seabed / Ground Elevation:	3600.400 ft above MSL
UBHI / API#:	Unknown / Unknown	Magnetic Declination:	6.209°
Survey Name:	Coterra Dos Equis 12-13 Federal Com 89H Rev0 kFc 17Nov23	Total Gravity Field Strength:	998.4393mgn (9.80665 Based)
Survey Date:	November 21, 2023	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	106.956 ° / 10380.156 ft / 6.331 / 0.966	Total Magnetic Field Strength:	47445.33 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.792°
Location Lat / Long:	32°14'19.08584"N , 103°37'28.81272"W	Declination Date:	November 17, 2023
Location Grid N/E Y/X:	N 451271.800 ftUS , E 760446.170 ftUS	Magnetic Declination Model:	HDGM 2022
CRS Grid Convergence Angle:	0.378°	North Reference:	Grid North
Grid Scale Factor:	0.99996408	Grid Convergence Used:	0.378°
Version / Patch:	2023.1.0.1	Total Corr Mag North->Grid North:	5.831°
		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 (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [300° FNL, 1510° FEL]	0.00	0.00	178.33	0.00	-3.623.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020			
	100.00	0.00	34.99	100.00	-3.523.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	200.00	0.00	34.99	200.00	-3.423.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	300.00	0.00	34.99	300.00	-3.323.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	400.00	0.00	34.99	400.00	-3.223.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	500.00	0.00	34.99	500.00	-3.123.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	600.00	0.00	34.99	600.00	-3.023.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	700.00	0.00	34.99	700.00	-2.923.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	800.00	0.00	34.99	800.00	-2.823.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	900.00	0.00	34.99	900.00	-2.723.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
Rustler	1,000.00	0.00	34.99	1,000.00	-2.623.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,100.00	0.00	34.99	1,100.00	-2.523.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,163.00	0.00	34.99	1,163.00	-2.460.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,200.00	0.00	34.99	1,200.00	-2.423.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,300.00	0.00	34.99	1,300.00	-2.323.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,400.00	0.00	34.99	1,400.00	-2.223.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,500.00	0.00	34.99	1,500.00	-2.123.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,545.00	0.00	34.99	1,545.00	-2.078.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,600.00	0.00	34.99	1,600.00	-2.023.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,700.00	0.00	34.99	1,700.00	-1.923.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
Top Salt	1,800.00	0.00	34.99	1,800.00	-1.823.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	1,900.00	0.00	34.99	1,900.00	-1.723.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	2,000.00	0.00	34.99	2,000.00	-1.623.40	0.00	0.00	0.00	451,271.80	760,446.17	32.23863495	-103.62467020	0.00	0.00	0.00
	2,100.00	2.00	34.99	2,099.98	-1.523.42	-1.42	1.43	1.00	451,273.23	760,447.17	32.23863887	-103.62466693	2.00	2.00	0.00
	2,200.00	4.00	34.99	2,199.84	-1.423.56	-5.69	5.72	4.00	451,277.52	760,450.17	32.23865060	-103.62465714	2.00	2.00	0.00
	2,249.79	5.00	34.99	2,249.48	-1.373.92	-8.88	8.92	6.24	451,280.72	760,452.41	32.23865935	-103.62464983	2.00	2.00	0.00
	2,300.00	5.00	34.99	2,299.49	-1.323.91	-12.45	12.50	8.75	451,284.30	760,454.92	32.23866915	-103.62464164	0.00	0.00	0.00
	2,400.00	5.00	34.99	2,399.11	-1.224.29	-19.55	19.63	13.74	451,291.43	760,459.91	32.23868867	-103.62462534	0.00	0.00	0.00
	2,500.00	5.00	34.99	2,498.73	-1.124.67	-26.65	26.77	18.74	451,298.57	760,464.91	32.23870818	-103.62460904	0.00	0.00	0.00
	2,600.00	5.00	34.99	2,598.35	-1.025.05	-33.76	33.90	23.73	451,305.70	760,469.90	32.23872770	-103.62459273	0.00	0.00	0.00
Nudge, Build 2°/100ft	2,700.00	5.00	34.99	2,697.97	-925.43	-40.86	41.03	28.72	451,312.83	760,474.89	32.23874722	-103.62457643	0.00	0.00	0.00
	2,800.00	5.00	34.99	2,797.59	-825.81	-47.97	48.17	33.72	451,319.97	760,479.89	32.23876674	-103.62456013	0.00	0.00	0.00
	2,900.00	5.00	34.99	2,897.21	-726.19	-55.07	55.30	38.71	451,327.10	760,484.88	32.23878626	-103.62454383	0.00	0.00	0.00
	3,000.00	5.00	34.99	2,996.83	-626.57	-62.18	62.44	43.71	451,334.23	760,489.87	32.23880578	-103.62452752	0.00	0.00	0.00
	3,100.00	5.00	34.99	3,096.45	-526.95	-69.28	69.57	48.70	451,341.37	760,494.87	32.23882529	-103.62451122	0.00	0.00	0.00
	3,200.00	5.00	34.99	3,196.07	-427.33	-76.39	76.71	53.69	451,348.50	760,499.86	32.23884481	-103.62449492	0.00	0.00	0.00
	3,261.37	5.00	34.99	3,257.21	-366.19	-80.75	81.08	56.76	451,352.88	760,502.93	32.23885679	-103.62448491	0.00	0.00	0.00
	3,300.00	4.22	34.99	3,295.72	-327.68	-83.28	83.63	58.54	451,355.42	760,504.71	32.23886375	-103.62447910	2.00	-2.00	0.00
	3,400.00	2.22	34.99	3,395.55	-227.85	-87.87	88.23	61.76	451,360.03	760,507.93	32.23887635	-103.62446858	2.00	-2.00	0.00
	3,500.00	0.22	34.99	3,495.52	-127.88	-89.61	89.98	62.99	451,361.78	760,509.16	32.23888114	-103.62446458	2.00	-2.00	0.00
Hold	3,511.17	0.00	34.99	3,506.69	-116.71	-89.61	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	2.00	-2.00	0.00
	3,600.00	0.00	34.99	3,595.52	-27.88	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	3,700.00	0.00	34.99	3,695.52	72.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	3,800.00	0.00	34.99	3,795.52	172.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	3,900.00	0.00	34.99	3,895.52	272.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,000.00	0.00	34.99	3,995.52	372.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,100.00	0.00	34.99	4,095.52	472.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,200.00	0.00	34.99	4,195.52	572.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,300.00	0.00	34.99	4,295.52	672.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,400.00	0.00	34.99	4,395.52	772.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
Drop 2°/100ft	4,500.00	0.00	34.99	4,495.52	872.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,600.00	0.00	34.99	4,595.52	972.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,700.00	0.00	34.99	4,695.52	1,072.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,800.00	0.00	34.99	4,795.52	1,172.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,900.00	0.00	34.99	4,895.52	1,272.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	4,911.48	0.00	34.99	4,907											

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)
1st BS SS	9,600.00	0.00	34.99	9,595.52	5,972.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	9,700.00	0.00	34.99	9,695.52	6,072.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	9,800.00	0.00	34.99	9,795.52	6,172.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	9,900.00	0.00	34.99	9,895.52	6,272.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	9,986.48	0.00	34.99	9,982.00	6,358.60	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	10,000.00	0.00	34.99	9,995.52	6,372.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
KOP, Build 10°/100ft	10,100.00	0.00	34.99	10,095.52	6,472.12	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	10,154.17	0.00	34.99	10,149.69	6,526.29	-89.62	90.00	63.00	451,361.80	760,509.17	32.23888118	-103.62446454	0.00	0.00	0.00
	10,200.00	4.58	165.66	10,195.48	6,572.08	-87.85	88.22	63.45	451,360.02	760,509.62	32.23887630	-103.62446311	10.00	10.00	0.00
	10,300.00	14.58	165.66	10,293.95	6,670.55	-71.71	72.12	67.57	451,343.91	760,513.74	32.23883194	-103.62445014	10.00	10.00	0.00
	10,400.00	24.58	165.66	10,388.05	6,764.65	-39.23	39.68	75.86	451,311.48	760,522.03	32.23874265	-103.62442401	10.00	10.00	0.00
	10,500.00	34.58	165.66	10,474.90	6,851.50	8.61	-8.09	88.08	451,263.71	760,534.24	32.23861113	-103.62438554	10.00	10.00	0.00
2nd BS SS	10,600.00	44.58	165.66	10,551.88	6,928.48	70.36	-69.74	103.84	451,202.06	760,550.00	32.23844138	-103.62433588	10.00	10.00	0.00
	10,608.66	45.45	165.66	10,558.00	6,934.60	76.30	-75.68	105.36	451,196.12	760,551.52	32.23842503	-103.62433110	10.00	10.00	0.00
	10,700.00	54.58	165.66	10,616.63	6,993.23	144.14	-143.41	122.67	451,128.39	760,568.84	32.23823855	-103.62427655	10.00	10.00	0.00
	10,800.00	64.58	165.66	10,667.19	7,043.79	227.71	-226.86	144.00	451,044.95	760,590.17	32.23800881	-103.62420934	10.00	10.00	0.00
	10,900.00	74.58	165.66	10,702.03	7,078.63	318.53	-317.54	167.19	450,954.27	760,613.35	32.23775914	-103.62413630	10.00	10.00	0.00
	10,904.17	75.00	165.66	10,703.12	7,079.72	322.43	-321.43	168.18	450,950.38	760,614.35	32.23774842	-103.62413317	10.00	10.00	0.00
Build & Turn 5°/100ft	11,000.00	78.98	168.41	10,724.70	7,101.30	413.52	-412.40	189.11	450,859.41	760,635.27	32.23749800	-103.62406743	5.00	4.15	2.87
	11,100.00	83.15	171.19	10,740.24	7,116.84	510.81	-509.60	206.59	450,762.22	760,652.75	32.23723054	-103.62401300	5.00	4.17	2.79
	11,200.00	87.34	173.93	10,748.53	7,125.13	609.68	-608.38	219.47	450,663.44	760,665.63	32.23695878	-103.62397343	5.00	4.19	2.74
	11,263.45	90.00	175.66	10,750.00	7,126.60	672.87	-671.55	225.22	450,600.28	760,671.38	32.23678507	-103.62395618	5.00	4.20	2.72
	11,300.00	90.00	175.66	10,750.00	7,126.60	709.33	-707.99	227.99	450,563.83	760,674.15	32.23668484	-103.62394801	0.00	0.00	0.00
	11,363.45	90.00	175.66	10,750.00	7,126.60	772.63	-771.26	232.79	450,500.57	760,678.95	32.23651086	-103.62393384	0.00	0.00	0.00
Turn 2°/100ft	11,400.00	90.00	176.39	10,750.00	7,126.60	809.10	-807.72	235.32	450,464.11	760,681.49	32.23641059	-103.62392642	2.00	0.00	2.00
	11,500.00	90.00	178.39	10,750.00	7,126.60	909.02	-907.61	239.88	450,364.22	760,686.04	32.23613595	-103.62391384	2.00	0.00	2.00
	11,563.47	90.00	179.66	10,750.00	7,126.60	972.48	-971.07	240.95	450,300.77	760,687.12	32.23596151	-103.62391170	2.00	0.00	2.00
	11,600.00	90.00	179.66	10,750.00	7,126.60	1,009.02	-1,007.60	241.17	450,264.24	760,687.33	32.23586110	-103.62391178	0.00	0.00	0.00
	11,700.00	90.00	179.66	10,750.00	7,126.60	1,109.02	-1,107.60	241.76	450,164.24	760,687.92	32.23558623	-103.62391200	0.00	0.00	0.00
	11,800.00	90.00	179.66	10,750.00	7,126.60	1,209.02	-1,207.60	242.36	450,064.25	760,688.52	32.23531137	-103.62391222	0.00	0.00	0.00
Hold	11,900.00	90.00	179.66	10,750.00	7,126.60	1,309.02	-1,307.60	242.95	449,964.25	760,689.11	32.23503650	-103.62391244	0.00	0.00	0.00
	12,000.00	90.00	179.66	10,750.00	7,126.60	1,409.02	-1,407.60	243.54	449,864.26	760,689.70	32.23476164	-103.62391266	0.00	0.00	0.00
	12,100.00	90.00	179.66	10,750.00	7,126.60	1,509.02	-1,507.59	244.14	449,764.26	760,690.30	32.23448677	-103.62391288	0.00	0.00	0.00
	12,200.00	90.00	179.66	10,750.00	7,126.60	1,609.02	-1,607.59	244.73	449,664.27	760,690.89	32.23421191	-103.62391310	0.00	0.00	0.00
	12,300.00	90.00	179.66	10,750.00	7,126.60	1,709.02	-1,707.59	245.32	449,564.27	760,691.48	32.23393704	-103.62391332	0.00	0.00	0.00
	12,400.00	90.00	179.66	10,750.00	7,126.60	1,809.02	-1,807.59	245.91	449,464.28	760,692.07	32.23366218	-103.62391354	0.00	0.00	0.00
Pool NMNM0002889 exit to NMI	12,500.00	90.00	179.66	10,750.00	7,126.60	1,909.02	-1,907.59	246.51	449,364.29	760,692.67	32.23338731	-103.62391375	0.00	0.00	0.00
	12,600.00	90.00	179.66	10,750.00	7,126.60	2,009.02	-2,007.58	247.10	449,264.29	760,693.26	32.23311245	-103.62391397	0.00	0.00	0.00
	12,700.00	90.00	179.66	10,750.00	7,126.60	2,109.02	-2,107.58	247.69	449,164.30	760,693.85	32.23283759	-103.62391419	0.00	0.00	0.00
	12,800.00	90.00	179.66	10,750.00	7,126.60	2,209.02	-2,207.58	248.28	449,064.30	760,694.44	32.23256272	-103.62391441	0.00	0.00	0.00
	12,900.00	90.00	179.66	10,750.00	7,126.60	2,309.02	-2,307.58	248.88	448,964.31	760,695.04	32.23228786	-103.62391463	0.00	0.00	0.00
	12,931.00	90.00	179.66	10,750.00	7,126.60	2,340.02	-2,338.58	249.06	448,933.31	760,695.22	32.23220265	-103.62391470	0.00	0.00	0.00
Section 12-13 Line Cross, Pool 1	13,000.00	90.00	179.66	10,750.00	7,126.60	2,409.02	-2,407.58	249.47	448,864.31	760,695.63	32.23201299	-103.62391485	0.00	0.00	0.00
	13,100.00	90.00	179.66	10,750.00	7,126.60	2,509.02	-2,507.58	250.06							

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)
		1	0.000	10,100.000	1/100.000	—	—	A001Mb_MWD						Dos Equis 12-13 Federal Com 89H / Coterra Dos I	
		1	10,100.000	20,655.848	1/100.000	—	—	A008Mb_MWD+IFR1+MS						Dos Equis 12-13 Federal Com 89H / Coterra Dos I	

A default hole/casing size was used for A/C calculation because the wellbore size is not defined correctly.

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,207.200	14.500	10.750	
	9.875	7.625	
	8.750	7.625	
20,753.904	6.750	5.000	



Coterra Dos Equis 12-13 Federal Com 89H Rev0 kFc 17Nov23 Anti-Collision Summary Report

Analysis Date-24hr Time: November 21, 2023 - 09:19 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure: Coterra Dos Equis 12-13 Federal Com Pad 6
Slot: Dos Equis 12-13 Federal Com 89H
Well: Dos Equis 12-13 Federal Com 89H
Borehole: Dos Equis 12-13 Federal Com 89H
Scan MD Range: 0.00ft ~ 20753.90ft

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Dos Equis 12-13 Federal Com 89H Rev0 kFc 17Nov23 (Def Plan)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: NAL Procedure: D&M AntiCollision Standard S002
Min Pts: Absolute minima indicated.
Engine Version: 2023.1.0.1
Database \ Project: Dos Equis 12-13 Federal Com 89H--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 <= 2000ft
Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- 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

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	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 Dos Equis 12-13 Federal Com 88H Rev0 kFc 17Nov23 (DefinitivePlan) Fail Major

20.00	16.50	17.50	3.50	N/A	MAS = 5.03 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
20.00	16.50	17.50	3.50	N/A	MAS = 5.03 (m)	23.00	23.00					WRP	
20.00	20.06	5.79	-0.06	1.49	OSF1.50	1230.00	1230.00		OSF<1.50			Enter Minor	
20.00	28.78	-0.02	-8.78	1.00	OSF1.50	1810.00	1810.00			OSF<1.00		Enter Major	
16.30	35.50	-8.20	-19.20	0.63	OSF1.50	2257.94	2257.59					MinPt-CtCt	
16.33	35.68	-8.29	-19.35	0.63	OSF1.50	2270.00	2269.61					MinPt-SF	
16.41	35.83	-8.31	-19.42	0.63	OSF1.50	2280.00	2279.57					MinPt-EOU	
16.54	35.98	-8.28	-19.44	0.63	OSF1.50	2290.00	2289.53					MinPt-ADP	
26.65	39.13	-0.27	-12.48	0.99	OSF1.50	2500.00	2498.73			OSF>1.00		Exit Major	
41.80	42.12	12.89	-0.32	1.49	OSF1.50	2700.00	2697.97		OSF>1.50			Exit Minor	
84.14	55.20	46.50	28.94	2.32	OSF1.50	3570.00	3565.52					MinPt-CtCt	
84.29	55.65	46.36	28.64	2.31	OSF1.50	3600.00	3595.52					MinPt-EOU	
84.55	55.95	46.41	28.59	2.30	OSF1.50	3620.00	3615.52					MinPt-ADP	
85.14	56.40	46.70	28.74	2.30	OSF1.50	3650.00	3645.52					MinPt-SF	
249.86	76.92	197.74	172.93	4.99	OSF1.50	5070.00	5065.52	OSF>5.00				Exit Alert	
846.18	146.20	747.88	699.98	8.81	OSF1.50	9720.00	9715.52					MinPt-CtCt	
846.30	146.57	747.75	699.72	8.78	OSF1.50	9760.00	9755.52					MinPt-EOU	
846.38	146.67	747.77	699.71	8.78	OSF1.50	9770.00	9765.52					MinPt-ADP	
849.93	147.82	750.55	702.11	8.75	OSF1.50	9890.00	9885.52					MinPt-SF	
894.52	136.94	802.40	757.59	9.95	OSF1.50	12280.00	10750.00					MinPt-CtCt	
790.54	212.37	648.13	578.17	5.63	OSF1.50	15970.00	10750.00					MinPt-CtCt	
791.56	215.39	647.13	576.17	5.56	OSF1.50	16080.00	10750.00					MinPt-EOU	
792.71	216.80	647.35	575.92	5.53	OSF1.50	16130.00	10750.00					MinPt-ADP	
894.55	270.25	713.55	624.30	5.00	OSF1.50	17850.00	10750.00	OSF<5.00				Enter Alert	
894.63	357.03	655.78	537.60	3.77	OSF1.50	20753.90	10750.00					MinPts	

Coterra Dos Equis 12-13 Federal Com 90H Rev2 kFc DDMmmYY (DefinitivePlan) Fail Minor

19.99	16.35	18.18	3.64	N/A	MAS = 4.98 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
19.99	16.35	18.18	3.64	N/A	MAS = 4.98 (m)	23.00	23.00					WRP	
19.99	16.35	12.89	3.64	3.43	MAS = 4.98 (m)	590.00	590.00					MinPt-EOU	
19.99	20.12	6.03	-0.13	1.49	OSF1.50	1290.00	1290.00	OSF<1.50				Enter Minor	
19.99	27.79	0.92	-7.79	1.05	OSF1.50	1800.00	1800.00					MinPt-CtCt	
20.14	28.23	0.77	-8.09	1.04	OSF1.50	1830.00	1830.00					MinPts	
20.25	28.38	0.79	-8.12	1.04	OSF1.50	1840.00	1840.00					MinPt-ADP	
33.81	33.84	10.70	-0.03	1.50	OSF1.50	2210.00	2209.81	OSF>1.50				Exit Minor	
209.15	135.47	118.32	73.68	2.33	OSF1.50	9030.00	9025.52					MinPts	
209.24	135.55	118.36	73.69	2.32	OSF1.50	9040.00	9035.52					MinPt-SF	
389.65	119.44	309.51	270.21	4.94	OSF1.50	9670.00	9665.52	OSF>5.00				Exit Alert	
1209.58	345.23	978.95	864.35	5.27	OSF1.50	20753.90	10750.00					MinPts	

Coterra Dos Equis 12-13 Federal Com 91H Rev2 kFc DDMmmYY (DefinitivePlan) Warning Alert

39.99	32.36	38.19	7.64	N/A	MAS = 9.86 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
39.99	32.36	38.18	7.64	53884.54	MAS = 9.86 (m)	23.00	23.00					WRP	
39.99	32.36	32.89	7.64	7.21	MAS = 9.86 (m)	590.00	590.00					MinPt-EOU	
39.99	32.36	26.03	7.64	3.11	MAS = 9.86 (m)	1290.00	1290.00					MinPts	
40.14	32.36	25.79	7.79	3.03	MAS = 9.86 (m)	1330.00	1330.00					MinPt-EOU	
41.34	32.36	26.40	8.99	2.99	MAS = 9.86 (m)	1390.00	1390.00					MinPt-SF	
87.19	32.36	68.19	54.83	4.93	MAS = 9.86 (m)	1830.00	1830.00	OSF>5.00				Exit Alert	
863.10	135.47	772.27	727.63	9.65	OSF1.50	9020.00	9015.52					MinPt-EOU	
863.17	135.57	772.28	727.60	9.64	OSF1.50	9030.00	9025.52					MinPt-ADP	
865.81	136.31	774.42	729.49	9.62	OSF1.50	9120.00	9115.52					MinPt-SF	
1545.97	119.51	1465.82	1426.47	19.62	OSF1.50	11350.00	10750.00					MinPt-CtCt	
1546.31	120.21	1465.70	1426.10	19.51	OSF1.50	11430.00	10750.00					MinPt-EOU	
1546.71	120.69	1465.77	1426.02	19.44	OSF1.50	11490.00	10750.00					MinPt-ADP	
1547.17	121.77	1465.51	1425.40	19.27	OSF1.50	11630.00	10750.00					MinPt-CtCt	
1547.22	348.10	1314.67	1199.11	6.69	OSF1.50	20753.90	10750.00					MinPts	

Coterra Dos Equis 12-13 Federal Com 87H Rev0 kFc 17Nov23 (DefinitivePlan) Warning Alert

39.99	32.49	37.49	7.50	N/A	MAS = 9.90 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
39.99	32.49	37.49	7.50	105814.28	MAS = 9.90 (m)	23.00	23.00					WRP	
39.99	32.49	22.17	7.50	2.45	MAS = 9.90 (m)	1590.00	1590.00					MinPts	
40.14	32.49	21.93	7.65	2.40	MAS = 9.90 (m)	1630.00	1630.00					MinPt-EOU	
40.81	32.49	22.20	8.32	2.38	MAS = 9.90 (m)	1670.00	1670.00					MinPt-SF	
113.09	35.90	88.32	77.19	4.97	OSF1.50	2330.00	2329.38	OSF>5.00				Exit Alert	
925.98	156.22	821.00	769.77	9.01	OSF1.50	10430.00	10414.99					MinPt-CtCt	
926.04	156.36	820.97	769.69	9.00	OSF1.50	10450.00	10432.55					MinPts	
927.99	156.99	822.50	771.00	8.99	OSF1.50	10540.00	10507.02					MinPt-SF	
1237.99	360.82	996.61	877.17	5.17	OSF1.50	20750.00	10750.00					MinPt-CtCt	
1237.99	360.90	996.56	877.10	5.17	OSF1.50	20753.90	10750.00					MinPts	

30-025-46324 - DOS EQUIS 12-13 FEDERAL COM 086H - IFR1 to 22563ft - A (DefinitiveSurvey) Warning Alert

99.98	32.81	97.48	67.18	201721.69	MAS = 10.00 (m)	0.00	0.00					MinPts	
100.02	32.81	97.50	67.21	7421.69	MAS = 10.00 (m)	23.00	23.00					WRP	
100.13	32.81	97.49	67.32	707.58	MAS = 10.00 (m)	50.00	50.00					MinPt-EOU	
102.50	32.81	79.97	69.69	4.99	MAS = 10.00 (m)	2090.00	2089.99	OSF<5.00				Enter Alert	
100.71	35.66	76.11	65.05	4.44	OSF1.50	2300.00	2299.49					MinPt-CtCt	
100.98	36.85	75.58	64.13	4.30	OSF1.50	2380.00	2379.19					MinPt-EOU	
101.24	37.15	75.64	64.09	4.27	OSF1.50	2400.00	2399.11					MinPt-ADP	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	114.37	42.83	84.98	71.54	4.16	OSF1.50	2780.00	2777.67	OSF>5.00			MinPt-SF	
	180.18	55.95	142.04	124.23	4.99	OSF1.50	3680.00	3675.52				Exit Alert	
	1078.35	153.51	975.18	924.85	10.69	OSF1.50	10100.00	10095.52				MinPt-CtCt	
	1078.43	153.71	975.12	924.72	10.67	OSF1.50	10120.00	10115.52				MinPt-EOU	
	1078.52	153.82	975.14	924.70	10.67	OSF1.50	10130.00	10125.52				MinPt-ADP	
	1074.93	157.74	968.94	917.19	10.36	OSF1.50	10680.00	10604.76				MinPt-CtCt	
	1074.94	157.80	968.91	917.14	10.36	OSF1.50	10690.00	10610.76				MinPts	
	1076.14	158.15	969.88	917.99	10.35	OSF1.50	10750.00	10643.79				MinPt-SF	
	1860.40	128.68	1773.78	1731.72	22.09	OSF1.50	12280.00	10750.00				MinPt-CtCt	
	1860.50	128.96	1773.69	1731.53	22.04	OSF1.50	12310.00	10750.00				MinPt-EOU	
	1860.58	129.06	1773.71	1731.52	22.02	OSF1.50	12320.00	10750.00			MinPt-ADP		
	1860.10	138.93	1766.65	1721.17	20.42	OSF1.50	12930.00	10750.00			MinPt-CtCt		
	1857.80	144.70	1760.50	1713.10	19.57	OSF1.50	13250.00	10750.00			MinPt-CtCt		
	1858.97	154.85	1754.91	1704.12	18.28	OSF1.50	13750.00	10750.00			MinPt-CtCt		
	1855.45	173.41	1739.01	1682.04	16.26	OSF1.50	14570.00	10750.00			MinPt-CtCt		
	1856.09	180.72	1734.77	1675.36	15.60	OSF1.50	14870.00	10750.00			MinPt-CtCt		
	1856.51	181.82	1734.47	1674.69	15.51	OSF1.50	14930.00	10750.00			MinPt-EOU		
	1856.82	182.19	1734.53	1674.63	15.48	OSF1.50	14950.00	10750.00			MinPt-ADP		
	1855.70	190.38	1727.95	1665.32	14.80	OSF1.50	15250.00	10750.00			MinPt-CtCt		
	1856.73	193.77	1726.72	1662.96	14.54	OSF1.50	15400.00	10750.00			MinPt-EOU		
	1857.98	227.10	1705.75	1630.89	12.39	OSF1.50	16610.00	10750.00			MinPt-CtCt		
	1859.32	234.14	1702.39	1625.18	12.02	OSF1.50	16860.00	10750.00			MinPt-CtCt		
	1859.40	240.13	1698.48	1619.27	11.72	OSF1.50	17070.00	10750.00			MinPt-CtCt		
	1858.21	250.79	1690.18	1607.42	11.21	OSF1.50	17440.00	10750.00			MinPt-CtCt		
	1858.67	252.26	1689.66	1606.41	11.15	OSF1.50	17510.00	10750.00			MinPt-EOU		
	1860.30	254.14	1690.03	1606.15	11.07	OSF1.50	17590.00	10750.00			MinPt-ADP		
	1863.95	258.44	1690.83	1605.52	10.91	OSF1.50	17730.00	10750.00			MinPt-EOU		
	1861.85	274.46	1678.04	1587.39	10.26	OSF1.50	18250.00	10750.00			MinPt-CtCt		
	1858.65	294.15	1661.71	1564.50	9.55	OSF1.50	18910.00	10750.00			MinPt-CtCt		
	1859.93	323.81	1643.23	1536.12	8.67	OSF1.50	19890.00	10750.00			MinPt-CtCt		
	1856.65	336.67	1631.37	1519.98	8.32	OSF1.50	20310.00	10750.00			MinPt-CtCt		
	1857.17	338.20	1630.87	1518.97	8.29	OSF1.50	20380.00	10750.00			MinPt-EOU		
	1859.81	345.22	1628.83	1514.59	8.13	OSF1.50	20610.00	10750.00			MinPt-EOU		
	1860.59	346.15	1628.99	1514.44	8.11	OSF1.50	20650.00	10750.00			MinPt-ADP		
	1863.84	348.65	1630.57	1515.19	8.07	OSF1.50	20753.90	10750.00			MinPt-SF		
30-025-46481 - DOS EQUIS 12-13 FEDERAL COM 6H - IFR1 to 22805ft - A (DefinitiveSurvey)													Warning Alert
	116.60	32.81	114.10	83.79	2393321.50	MAS = 10.00 (m)	0.00	0.00				Surface	
	116.60	32.81	114.10	83.79	91729.60	MAS = 10.00 (m)	23.00	23.00				WRP	
	115.14	32.81	105.10	82.33	14.94	MAS = 10.00 (m)	830.00	830.00				MinPts	
	116.54	32.81	101.80	83.73	9.32	MAS = 10.00 (m)	1310.00	1310.00				MinPt-EOU	
	129.64	32.81	112.61	96.83	8.75	MAS = 10.00 (m)	1550.00	1550.00				MinPt-SF	
	331.36	51.15	296.43	280.22	10.14	OSF1.50	3340.00	3335.63				MinPt-SF	
	410.72	60.91	369.28	349.81	10.48	OSF1.50	3990.00	3985.52				MinPt-SF	
	471.42	67.90	425.32	403.53	10.76	OSF1.50	4460.00	4455.52				MinPt-SF	
	551.61	111.57	476.40	440.04	7.55	OSF1.50	7390.00	7385.52				MinPt-CtCt	
	551.53	114.06	474.65	437.47	7.38	OSF1.50	7560.00	7555.52				MinPt-CtCt	
	551.63	116.40	473.20	435.23	7.23	OSF1.50	7720.00	7715.52				MinPt-CtCt	
	553.25	126.70	467.95	426.55	6.65	OSF1.50	8420.00	8415.52				MinPt-CtCt	
	541.46	144.90	444.03	396.56	5.68	OSF1.50	9660.00	9655.52				MinPt-CtCt	
	542.06	146.51	443.55	395.54	5.62	OSF1.50	9770.00	9765.52				MinPt-EOU	
	539.78	151.94	437.65	387.84	5.39	OSF1.50	10150.00	10145.52				MinPt-CtCt	
	506.42	154.09	402.86	352.33	4.99	OSF1.50	10450.00	10432.55	OSF<5.00			Enter Alert	
	458.59	155.88	353.84	302.71	4.46	OSF1.50	10760.00	10648.78				MinPts	
	458.74	155.93	353.95	302.80	4.46	OSF1.50	10770.00	10653.61				MinPt-SF	
	515.57	156.86	410.16	358.71	4.99	OSF1.50	11000.00	10724.70	OSF>5.00			Exit Alert	
	2235.00	156.10	2130.10	2078.90	21.80	OSF1.50	13990.00	10750.00				MinPt-CtCt	
	2234.86	161.94	2126.07	2072.92	21.00	OSF1.50	14240.00	10750.00				MinPt-CtCt	
	2234.43	165.54	2123.24	2068.89	20.53	OSF1.50	14390.00	10750.00				MinPt-CtCt	
	2237.50	179.88	2116.75	2057.62	18.90	OSF1.50	14960.00	10750.00				MinPt-CtCt	
	2237.59	184.29	2113.90	2053.30	18.44	OSF1.50	15130.00	10750.00				MinPt-CtCt	
	2237.50	190.11	2109.93	2047.39	17.87	OSF1.50	15350.00	10750.00				MinPt-CtCt	
	2237.15	200.56	2102.61	2036.59	16.92	OSF1.50	15740.00	10750.00				MinPt-CtCt	
	2245.05	228.48	2091.89	2016.57	14.89	OSF1.50	16760.00	10750.00				MinPt-EOU	
	2246.89	230.67	2092.27	2016.22	14.75	OSF1.50	16850.00	10750.00				MinPt-ADP	
	2248.47	237.30	2089.43	2011.16	14.35	OSF1.50	17040.00	10750.00				MinPt-CtCt	
	2248.86	238.46	2089.06	2010.41	14.28	OSF1.50	17100.00	10750.00				MinPt-EOU	
	2249.35	239.03	2089.16	2010.32	14.25	OSF1.50	17130.00	10750.00				MinPt-ADP	
	2249.06	246.33	2084.01										

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	1674.71	193.15	1545.11	1481.56	13.16	OSF1.50	15560.00	10750.00				MinPt-EOU	
	1673.58	198.31	1540.54	1475.27	12.80	OSF1.50	15730.00	10750.00				MinPt-CtCt	
	1672.96	203.11	1536.72	1469.86	12.49	OSF1.50	15900.00	10750.00				MinPt-CtCt	
	1670.57	211.38	1528.82	1459.19	11.98	OSF1.50	16190.00	10750.00				MinPt-CtCt	
	1672.82	229.06	1519.27	1443.75	11.06	OSF1.50	16800.00	10750.00				MinPt-CtCt	
	1673.40	231.78	1518.04	1441.61	10.93	OSF1.50	16910.00	10750.00				MinPt-EOU	
	1674.10	232.65	1518.17	1441.45	10.89	OSF1.50	16950.00	10750.00				MinPt-ADP	
	1666.39	250.38	1498.64	1416.01	10.07	OSF1.50	17520.00	10750.00				MinPt-CtCt	
	1666.89	251.93	1498.10	1414.96	10.01	OSF1.50	17590.00	10750.00				MinPt-EOU	
	1667.64	252.81	1498.26	1414.82	9.98	OSF1.50	17630.00	10750.00				MinPt-ADP	
	1670.35	256.72	1498.37	1413.63	9.84	OSF1.50	17750.00	10750.00				MinPt-EOU	
	1671.11	257.62	1498.53	1413.48	9.81	OSF1.50	17790.00	10750.00				MinPt-ADP	
	1674.44	265.48	1496.62	1408.96	9.54	OSF1.50	18020.00	10750.00				MinPt-CtCt	
	1676.20	273.70	1492.90	1402.50	9.26	OSF1.50	18290.00	10750.00				MinPt-CtCt	
	1676.86	276.82	1491.49	1400.05	9.16	OSF1.50	18410.00	10750.00				MinPt-EOU	
	1677.58	277.69	1491.62	1399.89	9.13	OSF1.50	18450.00	10750.00				MinPt-ADP	
	1681.83	292.37	1486.08	1389.46	8.69	OSF1.50	18900.00	10750.00				MinPt-CtCt	
	1675.83	303.23	1472.84	1372.60	8.35	OSF1.50	19250.00	10750.00				MinPt-CtCt	
	1676.24	304.48	1472.42	1371.76	8.31	OSF1.50	19310.00	10750.00				MinPt-EOU	
	1676.58	304.89	1472.49	1371.70	8.30	OSF1.50	19330.00	10750.00				MinPt-ADP	
	1676.86	315.97	1465.38	1360.88	8.01	OSF1.50	19660.00	10750.00				MinPt-CtCt	
	1662.53	347.05	1430.33	1315.47	7.23	OSF1.50	20660.00	10750.00				MinPt-CtCt	
	1663.14	349.53	1429.28	1313.61	7.18	OSF1.50	20753.90	10750.00				MinPts	
Coterra Dos Equis 12-13 Federal Com 75H Rev0 kFc 17Nov23 (DefinitivePlan)													Warning Alert
	899.88	32.81	897.38	867.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	899.88	32.81	897.37	867.07	68449.80	MAS = 10.00 (m)	23.00	23.00				WRP	
	347.84	106.16	276.23	241.68	5.00	OSF1.50	6850.00	6845.52	OSF<5.00			Enter Alert	
	347.84	154.61	243.93	193.23	3.41	OSF1.50	10154.17	10149.69				MinPt-CtCt	
	347.86	154.65	243.92	193.20	3.40	OSF1.50	10160.00	10155.52				MinPts	
	347.96	154.73	243.97	193.23	3.40	OSF1.50	10170.00	10165.52				MinPt-SF	
	525.08	159.70	417.78	365.38	4.99	OSF1.50	10710.00	10622.35	OSF>5.00			Exit Alert	
	876.22	116.08	798.00	760.14	11.54	OSF1.50	11250.00	10749.94				MinPt-CtCt	
	876.25	116.15	797.98	760.10	11.53	OSF1.50	11260.00	10750.00				MinPts	
	880.25	265.94	702.12	614.31	5.00	OSF1.50	17790.00	10750.00	OSF<5.00			Enter Alert	
	880.16	356.39	641.73	523.77	3.72	OSF1.50	20753.90	10750.00				MinPts	
Coterra Dos Equis 12-13 Federal Com 76H Rev0 kFc 17Nov23 (DefinitivePlan)													Warning Alert
	919.87	32.81	917.37	887.06	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	919.87	32.81	917.36	887.06	68133.25	MAS = 10.00 (m)	23.00	23.00				WRP	
	413.15	125.82	328.43	287.32	4.99	OSF1.50	8290.00	8285.52	OSF<5.00			Enter Alert	
	413.15	143.66	316.54	269.49	4.36	OSF1.50	9500.00	9495.52				MinPt-CtCt	
	413.19	143.89	316.43	269.30	4.36	OSF1.50	9530.00	9525.52				MinPt-EOU	
	413.24	143.96	316.44	269.28	4.36	OSF1.50	9540.00	9535.52				MinPt-ADP	
	413.82	144.28	316.80	269.54	4.35	OSF1.50	9590.00	9585.52				MinPt-SF	
	465.55	141.97	370.06	323.57	4.98	OSF1.50	10000.00	9995.52	OSF>5.00			Exit Alert	
	913.44	121.60	831.54	791.84	11.47	OSF1.50	11290.00	10750.00				MinPt-SF	
	877.12	211.67	735.17	665.45	6.27	OSF1.50	15960.00	10750.00				MinPt-CtCt	
	877.90	214.06	734.36	663.84	6.21	OSF1.50	16050.00	10750.00				MinPt-EOU	
	879.01	215.39	734.58	663.62	6.18	OSF1.50	16100.00	10750.00				MinPt-ADP	
	961.44	290.34	767.05	671.10	5.00	OSF1.50	18630.00	10750.00	OSF<5.00			Enter Alert	
	961.42	354.13	724.50	607.29	4.09	OSF1.50	20753.90	10750.00				MinPts	
30-025-40791-0200 - DOS EQUIS `12` FEDERAL COM 2H ST02 - MWD 13330ft to 15399ft (DefinitiveSurvey)													Warning Alert
	463.43	32.81	460.93	430.62	#####	MAS = 10.00 (m)	0.00	0.00				MinPts	
	463.44	32.81	460.92	430.63	28829.71	MAS = 10.00 (m)	23.00	23.00				WRP	
	468.73	32.81	454.59	435.93	40.05	MAS = 10.00 (m)	1260.00	1260.00				MinPt-EOU	
	471.31	32.81	451.81	438.50	27.57	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	471.65	32.81	450.17	438.84	24.71	MAS = 10.00 (m)	2000.00	2000.00				MinPts	
	471.81	32.81	449.93	439.00	24.22	MAS = 10.00 (m)	2040.00	2040.00				MinPt-EOU	
	532.14	74.39	481.71	457.75	11.05	OSF1.50	4940.00	4935.52				MinPt-CtCt	
	534.00	78.08	481.11	455.92	10.55	OSF1.50	5390.00	5385.52				MinPt-EOU	
	534.97	79.48	481.15	455.49	10.38	OSF1.50	5550.00	5545.52				MinPt-EOU	
	536.97	82.24	481.31	454.73	10.05	OSF1.50	5850.00	5845.52				MinPt-EOU	
	540.23	86.87	481.48	453.36	9.56	OSF1.50	6320.00	6315.52				MinPt-EOU	
	543.54	92.35	481.14	451.19	9.03	OSF1.50	6840.00	6835.52				MinPt-EOU	
	541.32	105.73	470.00	435.59	7.83	OSF1.50	8020.00	8015.52				MinPt-CtCt	
	543.20	110.62	468.62	432.58	7.50	OSF1.50	8430.00	8425.52				MinPt-EOU	
	546.54	114.41	469.43	432.13	7.29	OSF1.50	8740.00	8735.52				MinPt-ADP	
	585.40	132.01	496.56	453.39	6.75	OSF1.50	10140.00	10135.52				MinPt-SF	
	732.57	221.84	583.85	510.73	4.99	OSF1.50	14650.00	10750.00	OSF<5.00			Enter Alert	
	721.58	241.46	559.77	480.12	4.51	OSF1.50	15						

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.		Rule	MD (ft)	TVD (ft)	Alert	Minor		
	5367.82	32.81	5365.32	5335.01	3039682.30	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	5367.82	32.81	5365.32	5335.01	#####	MAS = 10.00 (m)	23.00	23.00				WRP	
	5367.51	32.81	5364.08	5334.70	5731.04	MAS = 10.00 (m)	170.00	170.00				MinPts	
	5368.77	32.81	5360.48	5335.96	926.40	MAS = 10.00 (m)	660.00	660.00				MinPts	
	5371.73	32.81	5356.70	5338.92	428.62	MAS = 10.00 (m)	1360.00	1360.00				MinPt-EOU	
	5375.31	32.81	5356.59	5342.50	331.41	MAS = 10.00 (m)	1730.00	1730.00				MinPt-EOU	
	5376.97	32.81	5356.46	5344.16	298.36	MAS = 10.00 (m)	1910.00	1910.00				MinPt-EOU	
	5377.97	32.81	5356.43	5345.16	282.38	MAS = 10.00 (m)	2010.00	2010.00				MinPt-EOU	
	5460.50	64.91	5416.39	5395.59	131.19	OSF1.50	4270.00	4265.52				MinPt-CtCt	
	5462.01	69.73	5414.69	5392.28	121.81	OSF1.50	4620.00	4615.52				MinPt-EOU	
	5463.97	72.22	5414.99	5391.75	117.50	OSF1.50	4800.00	4795.52				MinPt-ADP	
	5471.19	78.85	5417.79	5392.33	107.44	OSF1.50	5250.00	5245.52				MinPt-ADP	
	5474.46	82.01	5418.96	5392.45	103.23	OSF1.50	5460.00	5455.52				MinPt-ADP	
	5481.48	88.77	5421.47	5392.71	95.26	OSF1.50	5900.00	5895.52				MinPt-EOU	
	5486.61	96.42	5421.50	5390.19	87.59	OSF1.50	6410.00	6405.52				MinPt-EOU	
	5489.23	100.16	5421.62	5389.07	84.28	OSF1.50	6660.00	6655.52				MinPt-EOU	
	5496.44	110.66	5421.83	5385.78	76.19	OSF1.50	7360.00	7355.52				MinPt-EOU	
	5498.37	114.27	5421.35	5384.09	73.76	OSF1.50	7600.00	7595.52				MinPt-EOU	
	5499.23	115.30	5421.54	5383.94	73.10	OSF1.50	7680.00	7675.52				MinPt-ADP	
	5501.04	117.34	5421.98	5383.70	71.82	OSF1.50	7810.00	7805.52				MinPt-EOU	
	5501.88	118.28	5422.19	5383.59	71.25	OSF1.50	7880.00	7875.52				MinPt-ADP	
	5513.04	127.25	5427.38	5385.80	66.26	OSF1.50	8470.00	8465.52				MinPt-EOU	
	5515.66	130.21	5428.02	5385.45	64.76	OSF1.50	8680.00	8675.52				MinPt-ADP	
	5517.90	132.78	5428.54	5385.12	63.50	OSF1.50	8840.00	8835.52				MinPt-EOU	
	5518.86	133.93	5428.74	5384.93	62.96	OSF1.50	8930.00	8925.52				MinPt-ADP	
	5522.66	138.47	5429.51	5384.19	60.90	OSF1.50	9240.00	9235.52				MinPt-ADP	
	5529.18	148.25	5429.51	5380.93	56.88	OSF1.50	9870.00	9865.52				MinPt-CtCt	
	5529.55	149.44	5429.09	5380.11	56.42	OSF1.50	9970.00	9965.52				MinPt-EOU	
	5529.91	149.88	5429.16	5380.03	56.25	OSF1.50	10010.00	10005.52				MinPt-ADP	
	650.19	197.46	517.71	452.72	4.98	OSF1.50	15850.00	10750.00	OSF<5.00			Enter Alert	
	635.27	201.47	500.12	433.79	4.77	OSF1.50	15988.50	10750.00				MinPt-CtCt	
	635.37	201.66	500.10	433.71	4.77	OSF1.50	16000.00	10750.00				MinPts	
	635.63	201.81	500.26	433.82	4.76	OSF1.50	16010.00	10750.00				MinPt-SF	
	663.50	201.60	528.26	461.89	4.98	OSF1.50	16180.00	10750.00	OSF>5.00			Exit Alert	
	4807.19	172.40	4691.42	4634.78	42.42	OSF1.50	20753.90	10750.00				TD	
30-025-41479-0100 - DOS EQUIS 13 FEDERAL COM 1H ST01 - Corrected MWD to 15250ft (DefinitiveSurvey)													Warning Alert
	5367.87	32.81	5365.37	5335.06	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5367.84	32.81	5365.33	5335.03	1176657.26	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	5367.82	32.81	5365.32	5335.01	3039682.30	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	5367.82	32.81	5365.32	5335.01	#####	MAS = 10.00 (m)	23.00	23.00				WRP	
	5367.51	32.81	5364.08	5334.70	5731.04	MAS = 10.00 (m)	170.00	170.00				MinPts	
	5368.77	32.81	5360.48	5335.96	926.40	MAS = 10.00 (m)	660.00	660.00				MinPts	
	5371.73	32.81	5356.70	5338.92	428.62	MAS = 10.00 (m)	1360.00	1360.00				MinPt-EOU	
	5375.31	32.81	5356.59	5342.50	331.41	MAS = 10.00 (m)	1730.00	1730.00				MinPt-EOU	
	5376.97	32.81	5356.46	5344.16	298.36	MAS = 10.00 (m)	1910.00	1910.00				MinPt-EOU	
	5377.97	32.81	5356.43	5345.16	282.38	MAS = 10.00 (m)	2010.00	2010.00				MinPt-EOU	
	5460.50	64.91	5416.39	5395.59	131.19	OSF1.50	4270.00	4265.52				MinPt-CtCt	
	5462.01	69.73	5414.69	5392.28	121.81	OSF1.50	4620.00	4615.52				MinPt-EOU	
	5463.97	72.22	5414.99	5391.75	117.50	OSF1.50	4800.00	4795.52				MinPt-ADP	
	5471.19	78.85	5417.79	5392.33	107.44	OSF1.50	5250.00	5245.52				MinPt-ADP	
	5474.46	82.01	5418.96	5392.45	103.23	OSF1.50	5460.00	5455.52				MinPt-ADP	
	5481.48	88.77	5421.47	5392.71	95.26	OSF1.50	5900.00	5895.52				MinPt-EOU	
	5486.61	96.42	5421.50	5390.19	87.59	OSF1.50	6410.00	6405.52				MinPt-EOU	
	5489.23	100.16	5421.62	5389.07	84.28	OSF1.50	6660.00	6655.52				MinPt-EOU	
	5496.44	110.66	5421.83	5385.78	76.19	OSF1.50	7360.00	7355.52				MinPt-EOU	
	5498.37	114.27	5421.35	5384.09	73.76	OSF1.50	7600.00	7595.52				MinPt-EOU	
	5499.23	115.30	5421.54	5383.94	73.10	OSF1.50	7680.00	7675.52				MinPt-ADP	
	5501.04	117.34	5421.98	5383.70	71.82	OSF1.50	7810.00	7805.52				MinPt-EOU	
	5501.88	118.28	5422.19	5383.59	71.25	OSF1.50	7880.00	7875.52				MinPt-ADP	
	5513.04	127.25	5427.38	5385.80	66.26	OSF1.50	8470.00	8465.52				MinPt-EOU	
	5515.66	130.21	5428.02	5385.45	64.76	OSF1.50	8680.00	8675.52				MinPt-ADP	
	5517.90	132.78	5428.54	5385.12	63.50	OSF1.50	8840.00	8835.52				MinPt-EOU	
	5518.86	133.93	5428.74	5384.93	62.96	OSF1.50	8930.00	8925.52				MinPt-ADP	
	5522.66	138.47	5429.51	5384.19	60.90	OSF1.50	9240.00	9235.52				MinPt-ADP	
	5529.18	148.25	5429.51	5380.93	56.88	OSF1.50	9870.00	9865.52				MinPt-CtCt	
	5529.55	149.44											

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status	
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major			
	5475.25	129.21	5388.28	5346.04	64.79	OSF1.50	8610.00	8605.52	OSF<5.00			MinPt-EOU		
	5478.46	132.84	5389.07	5345.62	63.02	OSF1.50	8860.00	8855.52		MinPt-ADP				
	5488.01	149.22	5387.70	5338.79	56.08	OSF1.50	9930.00	9925.52		MinPt-CtCt				
	5488.56	150.94	5387.09	5337.61	55.44	OSF1.50	10070.00	10065.52		MinPt-EOU				
	5488.83	151.31	5387.12	5337.52	55.30	OSF1.50	10100.00	10095.52		MinPt-ADP				
	770.33	203.14	634.06	567.18	5.74	OSF1.50	16080.00	10750.00		MinPt-CtCt				
	770.39	203.26	634.05	567.13	5.74	OSF1.50	16090.00	10750.00		MinPts				
	771.63	203.77	634.96	567.87	5.73	OSF1.50	16140.00	10750.00		MinPt-SF				
	719.40	217.65	573.47	501.75	5.00	OSF1.50	16870.00	10750.00		Enter Alert				
	699.63	225.95	548.17	473.68	4.68	OSF1.50	17233.53	10750.00		MinPt-CtCt				
	700.57	228.26	547.56	472.31	4.64	OSF1.50	17330.00	10750.00		MinPt-EOU				
	702.94	231.15	548.01	471.79	4.60	OSF1.50	17440.00	10750.00		MinPt-ADP				
	725.18	257.23	552.86	467.96	4.26	OSF1.50	18290.00	10750.00		MinPt-EOU				
	729.75	262.54	553.89	467.21	4.20	OSF1.50	18460.00	10750.00		MinPt-ADP				
	710.05	338.39	483.62	371.66	3.16	OSF1.50	20500.00	10750.00		MinPts				
	754.06	324.97	536.57	429.08	3.50	OSF1.50	20753.90	10750.00		TD				
30-025-41306 - Bell Lake 24 Fed 2H - MWD to 16075ft - A (DefinitiveSurvey)													Warning Alert	
	15361.73	32.81	15359.23	15328.92	N/A	MAS = 10.00 (m)	0.00	0.00		OSF<5.00	Surface			
	15361.68	32.81	15359.17	15328.87	2428513.52	MAS = 10.00 (m)	23.00	23.00			WRP			
	965.59	292.06	770.05	673.53	4.99	OSF1.50	20530.00	10750.00			Enter Alert			
	828.24	318.73	614.92	509.51	3.92	OSF1.50	20753.90	10750.00	MinPts					
30-025-24433 - WIMBERLY 2 - INC Only to 5038ft (DefinitiveSurvey)													Warning Alert	
	921.63	32.81	919.82	888.82	N/A	MAS = 10.00 (m)	0.00	0.00	OSF<5.00	Surface				
	921.40	32.81	919.56	888.59	26174.23	MAS = 10.00 (m)	10.00	10.00		MinPt-SF				
	921.26	32.81	919.43	888.45	54875.59	MAS = 10.00 (m)	23.00	23.00		WRP				
	901.68	272.23	719.59	629.45	4.99	OSF1.50	4480.00	4475.52		Enter Alert				
	901.68	323.91	685.14	577.77	4.19	OSF1.50	5060.00	5055.52	OSF>5.00	MinPt-CtCt				
	901.68	324.62	684.66	577.06	4.18	OSF1.50	5070.00	5065.52		MinPts				
	987.32	298.06	788.00	689.25	4.99	OSF1.50	5470.00	5465.52		Exit Alert				
	7858.79	263.31	7682.64	7595.47	45.07	OSF1.50	16320.00	10750.00		MinPt-SF				
	11366.83	326.15	11148.80	11040.68	52.56	OSF1.50	20753.90	10750.00		TD				
30-025-40791-0100 - DOS EQUIS `12` FEDERAL COM 2H ST01 - MWD 10486ft to 13433ft (DefinitiveSurvey)													Pass	
	463.43	32.81	460.93	430.62	#####	MAS = 10.00 (m)	0.00	0.00		MinPts				
	463.44	32.81	460.92	430.63	28829.71	MAS = 10.00 (m)	23.00	23.00		WRP				
	468.73	32.81	454.59	435.93	40.05	MAS = 10.00 (m)	1260.00	1260.00		MinPt-EOU				
	471.31	32.81	451.81	438.50	27.57	MAS = 10.00 (m)	1800.00	1800.00		MinPts				
	471.65	32.81	450.17	438.84	24.71	MAS = 10.00 (m)	2000.00	2000.00		MinPts				
	471.81	32.81	449.93	439.00	24.22	MAS = 10.00 (m)	2040.00	2040.00		MinPt-EOU				
	532.14	74.39	481.71	457.75	11.05	OSF1.50	4940.00	4935.52		MinPt-CtCt				
	534.00	78.08	481.11	455.92	10.55	OSF1.50	5390.00	5385.52		MinPt-EOU				
	534.97	79.48	481.15	455.49	10.38	OSF1.50	5550.00	5545.52		MinPt-EOU				
	536.97	82.24	481.31	454.73	10.05	OSF1.50	5850.00	5845.52		MinPt-EOU				
	540.23	86.87	481.48	453.36	9.56	OSF1.50	6320.00	6315.52		MinPt-EOU				
	543.54	92.35	481.14	451.19	9.03	OSF1.50	6840.00	6835.52		MinPt-EOU				
	541.32	105.73	470.00	435.59	7.83	OSF1.50	8020.00	8015.52		MinPt-CtCt				
	543.20	110.62	468.62	432.58	7.50	OSF1.50	8430.00	8425.52		MinPt-EOU				
	546.54	114.41	469.43	432.13	7.29	OSF1.50	8740.00	8735.52		MinPt-ADP				
	585.40	132.01	496.56	453.39	6.75	OSF1.50	10140.00	10135.52		MinPt-SF				
	802.59	181.44	680.80	621.15	6.71	OSF1.50	13260.00	10750.00		MinPts				
	802.64	181.47	680.82	621.16	6.71	OSF1.50	13270.00	10750.00		MinPt-SF				
	7535.59	150.57	7434.38	7385.02	76.31	OSF1.50	20753.90	10750.00		TD				
30-025-40791 - DOS EQUIS `12` FEDERAL COM 2H - Gyro+MWD to 12650ft (DefinitiveSurvey)													Pass	
	463.43	32.81	460.93	430.62	#####	MAS = 10.00 (m)	0.00	0.00		MinPts				
	463.44	32.81	460.92	430.63	28829.71	MAS = 10.00 (m)	23.00	23.00		WRP				
	468.73	32.81	454.59	435.93	40.05	MAS = 10.00 (m)	1260.00	1260.00		MinPt-EOU				
	471.31	32.81	451.81	438.50	27.57	MAS = 10.00 (m)	1800.00	1800.00		MinPts				
	471.65	32.81	450.17	438.84	24.71	MAS = 10.00 (m)	2000.00	2000.00		MinPts				
	471.81	32.81	449.93	439.00	24.22	MAS = 10.00 (m)	2040.00	2040.00		MinPt-EOU				
	532.14	74.39	481.71	457.75	11.05	OSF1.50	4940.00	4935.52		MinPt-CtCt				
	534.00	78.08	481.11	455.92	10.55	OSF1.50	5390.00	5385.52		MinPt-EOU				
	534.97	79.48	481.15	455.49	10.38	OSF1.50	5550.00	5545.52		MinPt-EOU				
	536.97	82.24	481.31	454.73	10.05	OSF1.50	5850.00	5845.52		MinPt-EOU				
	540.23	86.87	481.48	453.36	9.56	OSF1.50	6320.00	6315.52		MinPt-EOU				
	543.54	92.35	481.14	451.19	9.03	OSF1.50	6840.00	6835.52		MinPt-EOU				
	541.32	105.73	470.00	435.59	7.83	OSF1.50	8020.00	8015.52		MinPt-CtCt				
	543.20	110.62	468.62	432.58	7.50	OSF1.50	8430.00	8425.52		MinPt-EOU				
	546.54	114.41	469.43	432.13	7.29	OSF1.50	8740.00	8735.52		MinPt-ADP				
	585.40	132.01	496.56	453.39	6.75	OSF1.50	10140.00	10135.52		MinPt-SF				
	10145.42	149.56	10044.88	9995.86	103.46	OSF1.50	20753.90	10750.00		TD				
30-025-40700 - DOS EQUIS 12 FEDERAL COM 1 - Gyro to 11268ft (DefinitiveSurvey)													Pass	
	707.08	32.81	704.58	674.27	N/A	MAS = 10.00 (m)	0.00	0.00		MinPts				
	707.10	32.81	704.58	674.29	36115.18	MAS = 10.00 (m)	23.00	23.00		WRP				
	707.28	32.81	704.49	674.47	2433.18	MAS = 10.00 (m)	80.00	80.00		MinPt-EOU				
	708.65	32.81	704.10	675.84	344.98	MAS = 10.00 (m)	270.00	270.00		MinPt-EOU				
	712.19	32.81	692.38	679.38	40.99	MAS = 10.00 (m)	1810.00	1810.00		MinPts				
	637.87	63.48	594.72	574.39	15.63	OSF1.50	4170.00	4165.52		MinPt-CtCt				
	638.13	64.17	594.52	573.96	15.46	OSF1.50	4220.00	4215.52		MinPt-EOU				
	638.51	64.59	594.61	573.91	15.36	OSF1.50	4250.00	4245.52		MinPt-ADP				
	600.31	155.81	495.61	444.50	5.85									

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.		Rule	MD (ft)	TVD (ft)	Alert	Minor		
	717.27	140.42	622.83	576.85	7.77	OSF1.50	9400.00	9395.52				MinPt-ADP	
	737.71	151.71	635.74	586.00	7.39	OSF1.50	10190.00	10185.50				MinPt-EOU	
	737.83	151.85	635.76	585.98	7.39	OSF1.50	10210.00	10205.44				MinPt-ADP	
	741.36	153.21	638.38	588.14	7.35	OSF1.50	10390.00	10378.92				MinPt-SF	
	1867.55	135.88	1776.13	1731.67	20.97	OSF1.50	12440.00	10750.00				MinPt-CtCt	
	1867.80	136.75	1775.79	1731.04	20.84	OSF1.50	12510.00	10750.00				MinPt-EOU	
	1868.21	137.25	1775.88	1730.96	20.77	OSF1.50	12550.00	10750.00				MinPt-ADP	
	1870.37	140.79	1775.67	1729.58	20.26	OSF1.50	12770.00	10750.00				MinPt-EOU	
	1870.97	141.52	1775.79	1729.45	20.16	OSF1.50	12820.00	10750.00				MinPt-ADP	
	1872.08	144.42	1774.97	1727.66	19.76	OSF1.50	12950.00	10750.00				MinPt-CtCt	
	1872.37	145.25	1774.70	1727.12	19.65	OSF1.50	13010.00	10750.00				MinPt-EOU	
	1872.60	145.53	1774.75	1727.08	19.61	OSF1.50	13030.00	10750.00				MinPt-ADP	
	1874.00	148.50	1774.16	1725.50	19.23	OSF1.50	13190.00	10750.00				MinPt-EOU	
	1874.52	149.12	1774.27	1725.40	19.15	OSF1.50	13230.00	10750.00				MinPt-ADP	
	1875.02	149.63	1774.44	1725.39	19.09	OSF1.50	13260.00	10750.00				MinPt-ADP	
	1880.57	155.23	1776.25	1725.34	18.45	OSF1.50	13540.00	10750.00				MinPt-EOU	
	1881.10	155.88	1776.34	1725.22	18.37	OSF1.50	13580.00	10750.00				MinPt-ADP	
	1873.83	170.11	1759.59	1703.72	16.75	OSF1.50	14210.00	10750.00				MinPt-CtCt	
	1873.32	176.97	1754.51	1696.35	16.08	OSF1.50	14500.00	10750.00				MinPt-CtCt	
	1872.68	180.58	1751.46	1692.10	15.75	OSF1.50	14650.00	10750.00				MinPt-CtCt	
	1872.98	181.41	1751.21	1691.57	15.68	OSF1.50	14700.00	10750.00				MinPt-EOU	
	1873.25	181.74	1751.26	1691.51	15.66	OSF1.50	14720.00	10750.00				MinPt-ADP	
	1876.44	188.04	1750.24	1688.40	15.15	OSF1.50	14950.00	10750.00				MinPt-CtCt	
	1874.99	197.85	1742.25	1677.14	14.38	OSF1.50	15330.00	10750.00				MinPt-CtCt	
	1865.88	223.19	1716.26	1642.69	12.67	OSF1.50	16270.00	10750.00				MinPt-CtCt	
	1844.14	259.82	1670.10	1584.33	10.74	OSF1.50	17560.00	10750.00				MinPt-CtCt	
	1844.32	260.32	1669.94	1584.00	10.72	OSF1.50	17590.00	10750.00				MinPt-EOU	
	1844.58	260.65	1669.98	1583.93	10.70	OSF1.50	17610.00	10750.00				MinPt-ADP	
	1849.99	281.08	1661.77	1568.91	9.95	OSF1.50	18290.00	10750.00				MinPt-CtCt	
	1849.42	286.17	1657.81	1563.25	9.77	OSF1.50	18460.00	10750.00				MinPt-CtCt	
	1848.96	293.66	1652.35	1555.30	9.51	OSF1.50	18710.00	10750.00				MinPt-CtCt	
	1849.86	297.14	1650.94	1552.72	9.40	OSF1.50	18850.00	10750.00				MinPt-EOU	
	1848.06	342.14	1619.13	1505.92	8.15	OSF1.50	20310.00	10750.00				MinPt-CtCt	
	1849.06	350.79	1614.36	1498.26	7.95	OSF1.50	20590.00	10750.00				MinPt-CtCt	
	1849.27	355.92	1611.16	1493.35	7.84	OSF1.50	20753.90	10750.00				MinPts	
Working Definitive Survey (Non-Def Survey)													Pass
	2136.29	32.81	2134.59	2103.48	#####	MAS = 10.00 (m)	0.00	0.00				MinPts	
	2136.31	32.81	2134.59	2103.50	95305.02	MAS = 10.00 (m)	23.00	23.00				WRP	
	2137.91	32.81	2133.83	2105.10	895.90	MAS = 10.00 (m)	310.00	310.00				MinPt-EOU	
	2140.72	32.81	2134.14	2107.91	438.24	MAS = 10.00 (m)	560.00	560.00				MinPt-EOU	
	2137.61	32.81	2124.50	2104.80	187.18	MAS = 10.00 (m)	1210.00	1210.00				MinPt-EOU	
	855.48	110.66	781.19	744.82	11.74	OSF1.50	7595.84	7591.36				MinPt-CtCt	
	855.56	110.90	781.10	744.66	11.72	OSF1.50	7620.00	7615.52				MinPt-EOU	
	855.64	111.00	781.12	744.64	11.71	OSF1.50	7630.00	7625.52				MinPt-ADP	
	876.30	124.31	792.91	751.99	10.69	OSF1.50	8610.00	8605.52				MinPt-ADP	
	886.15	133.53	796.61	752.62	10.06	OSF1.50	9270.00	9265.52				MinPt-ADP	
	918.00	146.14	820.05	771.86	9.51	OSF1.50	10190.00	10185.50				MinPt-EOU	
	918.07	146.21	820.07	771.86	9.50	OSF1.50	10200.00	10195.48				MinPt-ADP	
	919.86	146.71	821.53	773.15	9.49	OSF1.50	10280.00	10274.52				MinPt-SF	
	7293.02	169.60	7179.43	7123.42	65.09	OSF1.50	17760.00	10750.00				MinPts	
	10178.21	176.77	10059.84	10001.44	87.13	OSF1.50	20753.90	10750.00				TD	
Coterra Dos Equis 12-13 Federal Com 3H Corrected MWD to 23004ft (DefinitiveSurvey)													Pass
	2136.29	32.81	2133.79	2103.48	#####	MAS = 10.00 (m)	0.00	0.00				MinPts	
	2136.31	32.81	2133.78	2103.50	95269.21	MAS = 10.00 (m)	23.00	23.00				WRP	
	2137.91	32.81	2133.03	2105.10	895.57	MAS = 10.00 (m)	310.00	310.00				MinPt-EOU	
	2140.72	32.81	2133.34	2107.91	438.07	MAS = 10.00 (m)	560.00	560.00				MinPt-EOU	
	855.48	118.44	775.69	737.05	11.04	OSF1.50	7595.82	7591.34				MinPt-CtCt	
	855.56	118.68	775.61	736.89	11.01	OSF1.50	7620.00	7615.52				MinPt-EOU	
	855.64	118.77	775.63	736.87	11.01	OSF1.50	7630.00	7625.52				MinPt-ADP	
	878.69	134.73	788.03	743.95	9.94	OSF1.50	8780.00	8775.52				MinPt-ADP	
	886.15	141.68	790.86	744.47	9.52	OSF1.50	9270.00	9265.52				MinPt-ADP	
	918.00	154.50	814.17	763.51	9.03	OSF1.50	10190.00	10185.50				MinPt-EOU	
	918.07	154.57	814.19	763.50	9.03	OSF1.50	10200.00	10195.48				MinPt-ADP	
	920.26	155.18	815.98	765.09	9.02	OSF1.50	10290.00	10284.26				MinPt-SF	
	2403.41	171.19	2288.45	2232.22	21.35	OSF1.50	13640.00	10750.00				MinPt-CtCt	
	2405.61	179.07	2285.40	2226.54	20.41	OSF1.50	14010.00	10750.00				MinPt-EOU	
	2406.33	179.93	2285.54	2226.40	20.32	OSF1.50	14060.00	10750.00				MinPt-ADP	
	2390.02	240.08	2229.14	2149.94	15.07	OSF1.50	16360.00	10750.00				MinPt-CtCt	

Offset Trajectory	Separation			Allow	Sep.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.		MD (ft)	TVD (ft)	Alert	Minor	Major		
	2198.32	32.81	2195.79	2165.51	77464.80	MAS = 10.00 (m)	23.00	23.00				WRP	
	1560.54	148.85	1460.47	1411.69	15.97	OSF1.50	10154.17	10149.69				MinPts	
	1560.58	148.86	1460.51	1411.72	15.97	OSF1.50	10170.00	10165.52				MinPt-SF	
	1859.89	361.95	1617.76	1497.94	7.75	OSF1.50	20753.90	10750.00				MinPts	
30-025-46875 - Bell Lake 24 Fed 24H - MWD to 17350ft - A (DefinitiveSurvey)													
	15367.22	32.81	15364.72	15334.41	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	15367.17	32.81	15364.66	15334.36	2131448.03	MAS = 10.00 (m)	23.00	23.00				WRP	
	15367.15	32.81	15364.55	15334.34	160603.31	MAS = 10.00 (m)	50.00	50.00				MinPts	
	1642.01	285.44	1450.89	1356.57	8.69	OSF1.50	20753.90	10750.00				MinPts	
30-025-24530 - WIMBERLY 4 - INC Only to 5030ft (DefinitiveSurvey)													
	1668.01	32.81	1666.21	1635.20	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1667.94	32.81	1666.12	1635.13	190253.55	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	1667.92	32.81	1666.11	1635.11	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	1667.92	105.29	1597.13	1562.63	24.15	OSF1.50	2000.00	2000.00				MinPt-CtCt	
	1670.08	111.98	1594.83	1558.10	22.71	OSF1.50	2120.00	2119.96				MinPt-EOU	
	1673.34	115.88	1595.49	1557.46	21.98	OSF1.50	2190.00	2189.86				MinPt-ADP	
	1763.35	297.40	1564.48	1465.95	8.94	OSF1.50	5060.00	5055.52				MinPts	
	5715.37	91.02	5654.09	5624.35	96.07	OSF1.50	12250.00	10750.00				MinPt-CtCt	
	5715.56	91.60	5653.89	5623.96	95.45	OSF1.50	12300.00	10750.00				MinPt-EOU	
	5715.89	92.00	5653.95	5623.89	95.03	OSF1.50	12330.00	10750.00				MinPt-ADP	
	7684.45	252.02	7515.84	7432.43	46.06	OSF1.50	17390.00	10750.00				MinPt-SF	
	10243.30	302.13	10041.27	9941.17	51.15	OSF1.50	20753.90	10750.00				TD	
30-025-24530 - WIMBERLY 3 - INC Only to 5070ft (DefinitiveSurvey)													
	1866.40	32.81	1864.60	1833.60	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1866.31	32.81	1864.48	1833.50	131557.50	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	1866.26	32.81	1864.45	1833.45	259233.14	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	1866.26	32.81	1864.45	1833.45	1916064.78	MAS = 10.00 (m)	23.00	23.00				WRP	
	1866.26	111.86	1791.08	1754.40	25.41	OSF1.50	2000.00	2000.00				MinPt-CtCt	
	1919.46	346.42	1687.91	1573.04	8.35	OSF1.50	5100.00	5095.52				MinPts	
	1919.50	346.43	1687.95	1573.08	8.35	OSF1.50	5110.00	5105.52				MinPt-SF	
	5691.59	96.99	5626.32	5594.59	89.66	OSF1.50	12250.00	10750.00				MinPt-CtCt	
	5691.80	97.56	5626.16	5594.24	89.14	OSF1.50	12300.00	10750.00				MinPt-EOU	
	5692.13	97.96	5626.23	5594.18	88.77	OSF1.50	12330.00	10750.00				MinPt-ADP	
	7701.75	281.55	7513.45	7420.21	41.29	OSF1.50	17440.00	10750.00				MinPt-SF	
	10231.75	337.08	10006.43	9894.68	45.77	OSF1.50	20753.90	10750.00				TD	
30-025-46874 - Bell Lake 24 Fed 22H - MWD to 17440ft - A (DefinitiveSurvey)													
	15367.22	32.81	15364.72	15334.41	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	15367.16	32.81	15364.66	15334.35	2131447.22	MAS = 10.00 (m)	23.00	23.00				WRP	
	1982.72	306.48	1777.57	1676.24	9.77	OSF1.50	20753.90	10750.00				MinPts	
30-025-46876 - Bell Lake 24 Fed 25H - MWD to 17633ft - A (DefinitiveSurvey)													
	15367.28	32.81	15364.78	15334.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	15367.23	32.81	15364.72	15334.42	2131465.08	MAS = 10.00 (m)	23.00	23.00				WRP	
	15367.21	32.81	15364.61	15334.40	160604.08	MAS = 10.00 (m)	50.00	50.00				MinPts	
	15368.14	32.81	15363.72	15335.33	7994.58	MAS = 10.00 (m)	320.00	320.00				MinPt-EOU	
	15373.27	32.81	15364.77	15340.46	2562.78	MAS = 10.00 (m)	760.00	760.00				MinPt-EOU	
	15375.02	32.81	15364.83	15342.21	2000.13	MAS = 10.00 (m)	920.00	920.00				MinPt-EOU	
	1992.13	305.11	1787.89	1687.02	9.86	OSF1.50	20753.90	10750.00				MinPts	

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

CONDITIONS

Action 321111

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 321111
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/6/2024