

Well Name: DOS EQUIS 12-13 FEDERAL COM	Well Location: T24S / R32E / SEC 12 / NWNW /	County or Parish/State:
Well Number: 88H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM02889	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550206	Well Status: Approved Application for Permit to Drill	Operator: CIMAREX ENERGY COMPANY

Notice of Intent

Sundry ID: 2763426

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

Date Sundry Submitted: 11/28/2023 Time Sundry Submitted: 07:00

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_88H_Sundry_Submittal_11282023_20231211131239.pdf

Conditions of Approval

Specialist Review

12_24_32_B_Sundry_ID_2763426_Dos_Equis_12_13_Federal_Com_88H_Lea_NM02889_CIMAREX_ENERGY_COM
PANY_13_22g_2_27_2024_LV_20240228120927.pdf

Dos_Equis_12_13_Fed_Com_88H_Dr_COA_20240228120927.pdf

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Operator

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

Operator Electronic Signature: SHELLY BOWEN	Signed on: DEC 11, 2023 01:12 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

SUBMIT IN TRIPLICATE - Other instructions on page 2	
1. Type of Well	
☐ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

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 / 1490 FEL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238635 / LONG: -103.624606 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 300 FNL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238637 / LONG: -103.620854 (TVD: 9283 feet, MD: 9382 feet)

PPP: NENE / 0 FNL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.224947 / LONG: -103.620867 (TVD: 9600 feet, MD: 14524 feet)

PPP: NESE / 2640 FNL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.232203 / LONG: -103.620858 (TVD: 9600 feet, MD: 11884 feet)

BHL: SESE / 100 FSL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210704 / LONG: -103.620877 (TVD: 9600 feet, MD: 19706 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
2763426	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

Drilling Plan Amendments

Sec 1 - Geologic Formations See attached drilling plan.

Sec 2 - Blowout Prevention Old New
2M 2M
5M 3M
5M 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	9218	9218	5-1/2"	20.00	L-80	LT&C	2.05	2.13	2.17
8 3/4	9218	19706	9600	5-1/2"	20.00	L-80	BT&C	1.97	2.00	60.99
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	390	10.30	3.64	22.18		Lead: Tuned Light + LCM
	2548	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 19706'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C

Section 7 - Pressure Old New
4492 4989

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	4947	4927	9-5/8"	40.00	HCK-55	LT&C	1.49	1.54	2.85
8 3/4	0	9576	9576	7"	29.00	L-80	LT&C	1.57	1.82	2.01
8 3/4	9576	10326	10060	7"	29.00	L-80	LT&C	1.49	1.73	41.82
6	9076	20187	10100	4-1/2"	11.60	P-110	BT&C	1.52	2.15	30.90
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

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	929	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	296	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	732	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

New				
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1216'	Fresh Water	7.83 - 8.33	28	N/C
1216' to 4947'	Brine Water	9.50 - 10.00	30-32	N/C
4947' to 10326'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
10626' to 20187'	OBM	9.00 - 9.50	50-70	N/C

1. Geological Formations

TVD of target 10,100

Pilot Hole TD N/A

MD at TD 20,187

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	Hydrocarbons	
Cherry Canyon	5874	Hydrocarbons	
Brushy Canyon	7310	Hydrocarbons	
Basal Brushy Canyon	8631	Hydrocarbons	
Bone Spring Lime	8850	Hydrocarbons	
Leonard	9031	N/A	
Avalon	9283	Hydrocarbons	
1st Bone Spring Sand	9982	Hydrocarbons	
1st Sand - Target	10100	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	4947	4927	9-5/8"	40.00	HCK-55	LT&C	1.49	1.54	2.85
8 3/4	0	9576	9576	7"	29.00	L-80	LT&C	1.57	1.82	2.01
8 3/4	9576	10326	10060	7"	29.00	L-80	LT&C	1.49	1.73	41.82
6	9076	20187	10100	4-1/2"	11.60	P-110	BT&C	1.52	2.15	30.90
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 88H

	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	929	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	296	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	732	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	50
Production	4747	25
Completion System	10126	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	X	
			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 4947'	Brine Water	9.50 - 10.00	30-32	N/C
4947' to 10326'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
10626' to 20187'	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
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7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4989 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

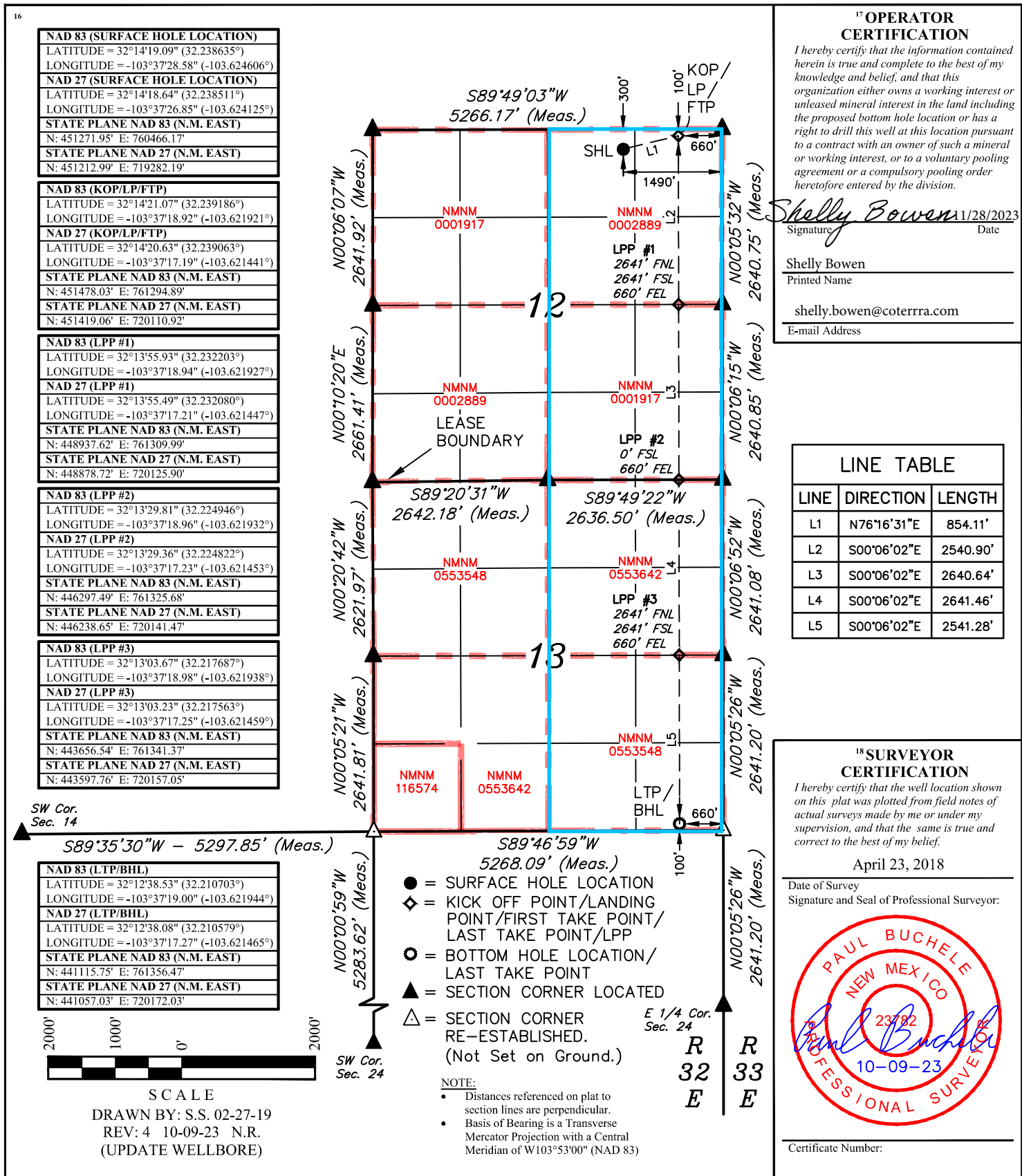
Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, 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

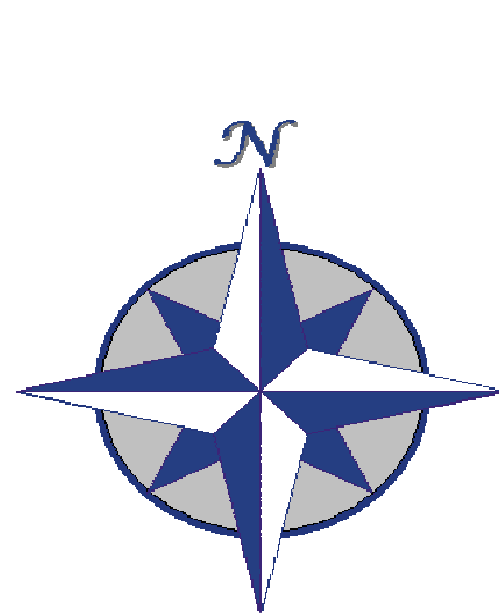
☐ AMENDED REPORT



Borehole:	Well:	Field:	Structure:
Dos Equis 12-13 Federal Com 88H	Dos Equis 12-13 Federal Com 88H	NM Lea County (NAD 83)	Coterra Dos Equis 12-13 Federal Com Pad 6

Gravity & Magnetic Parameters				Surface Location				NAD83 New Mexico State Plane, Eastern Zone, US Feet				Miscellaneous			
Model:	HDGM 2022	Dip:	59.792°	Date:	17-Nov-2023	Lat:	N 32 14 19.09	Northing:	451271.95ftUS	Grid Conv:	0.3781°	Slot:	Dos Equis 12-13	TVD Ref:	RKB (3623.200 ft above MSL)
MagDec:	6.209°	FS:	47445.313nT	Gravity FS:	998.439mgn (9.80665 Based)	Lon:	W 103 37 28.58	Easting:	760466.17ftUS	Scale Fact:	0.99996409	Plan:	Dos Equis 12-13 Federal Com 88H Coterra Dos Equis 12-13 Federal Com 88H Rev0 kFc 17Nov23		

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [300' FNL, 1490' FEL]	0.00	0.00	174.99	0.00	0.00	0.00	0.00	
Rustler	1163.00	0.00	83.21	1163.00	0.00	0.00	0.00	0.00
Top Salt	1545.00	0.00	83.21	1545.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	3000.00	0.00	83.21	3000.00	0.00	0.00	0.00	0.00
Hold	3450.21	9.00	83.21	3448.36	-3.97	4.18	35.06	2.00
Lamar	4927.05	9.00	83.21	4907.00	-29.94	31.51	264.57	0.00
Bell Canyon	4967.55	9.00	83.21	4947.00	-30.65	32.26	270.86	0.00
Cherry Canyon	5906.12	9.00	83.21	5874.00	-47.16	49.63	416.72	0.00
Brushy Canyon	7360.03	9.00	83.21	7310.00	-72.73	76.54	642.67	0.00
Basal Brushy Canyon	8697.51	9.00	83.21	8631.00	-96.25	101.30	850.53	0.00
Drop 2°/100ft	8725.94	9.00	83.21	8659.07	-96.75	101.82	854.94	0.00
Bone Spring Lime	8918.37	5.16	83.21	8850.00	-99.41	104.63	878.49	2.00
Leonard	9099.71	1.53	83.21	9031.00	-100.60	105.88	888.99	2.00
Hold	9176.14	0.00	83.21	9107.43	-100.72	106.00	890.00	2.00
Avalon	9351.71	0.00	83.21	9283.00	-100.72	106.00	890.00	0.00
KOP, Build 10°/100ft	9576.14	0.00	83.21	9507.43	-100.72	106.00	890.00	0.00
1st BS SS	10135.37	55.92	181.66	9982.00	151.05	-145.82	882.70	10.00
Build 5°/100ft	10326.14	75.00	181.66	10060.86	323.69	-318.49	877.70	10.00
Landing Point	10626.14	90.00	181.66	10099.91	620.09	-614.95	869.11	5.00
Turn 2°/100ft	11596.14	90.00	181.66	10099.91	1589.50	-1584.54	841.01	0.00
Hold	11696.14	90.00	179.66	10099.91	1689.48	-1684.53	839.86	2.00
Pool NMNM0002889 exit to NMNM0001917 enter	12346.00	90.00	179.66	10099.91	2339.34	-2334.37	843.71	0.00
Turn 2°/100ft	13696.14	90.00	179.66	10099.91	3689.48	-3684.49	851.72	0.00
Hold	14046.14	90.00	186.66	10099.91	4038.61	-4033.74	832.44	2.00
Section 12-13 Line Cross, Pool NMNM0001917 exit to NMNM0553642 enter	14994.00	90.00	186.66	10099.91	4979.40	-4975.20	722.51	0.00
Turn 2°/100ft	15046.14	90.00	186.66	10099.91	5031.16	-5027.00	716.46	0.00
Hold	15746.14	90.00	172.66	10099.91	5729.42	-5725.24	720.61	2.00
Turn 2°/100ft	16746.14	90.00	172.66	10099.91	6721.96	-6717.05	848.37	0.00
Hold	17095.96	90.00	179.66	10099.92	7070.91	-7065.86	871.79	2.00
Pool NMNM0553642 exit to NMNM0553548 enter	17646.00	90.00	179.66	10099.93	7620.95	-7615.89	875.09	0.00
Dos Equis 12-13 Federal Com 88H - BHL [100' FSL, 660' FEL]	20186.74	90.00	179.66	10100.00	10161.69	-10156.59	890.33	0.00



Grid
True
Mag

Grid North
Tot Corr (M->G 5.830°)
Mag Dec (6.209°)
Grid Conv (0.378°)

CONTROLLED

Coterra Dos Equis 12-13 Federal Com 88H Rev0 kFc 17Nov23

Plan ref 17Nov23

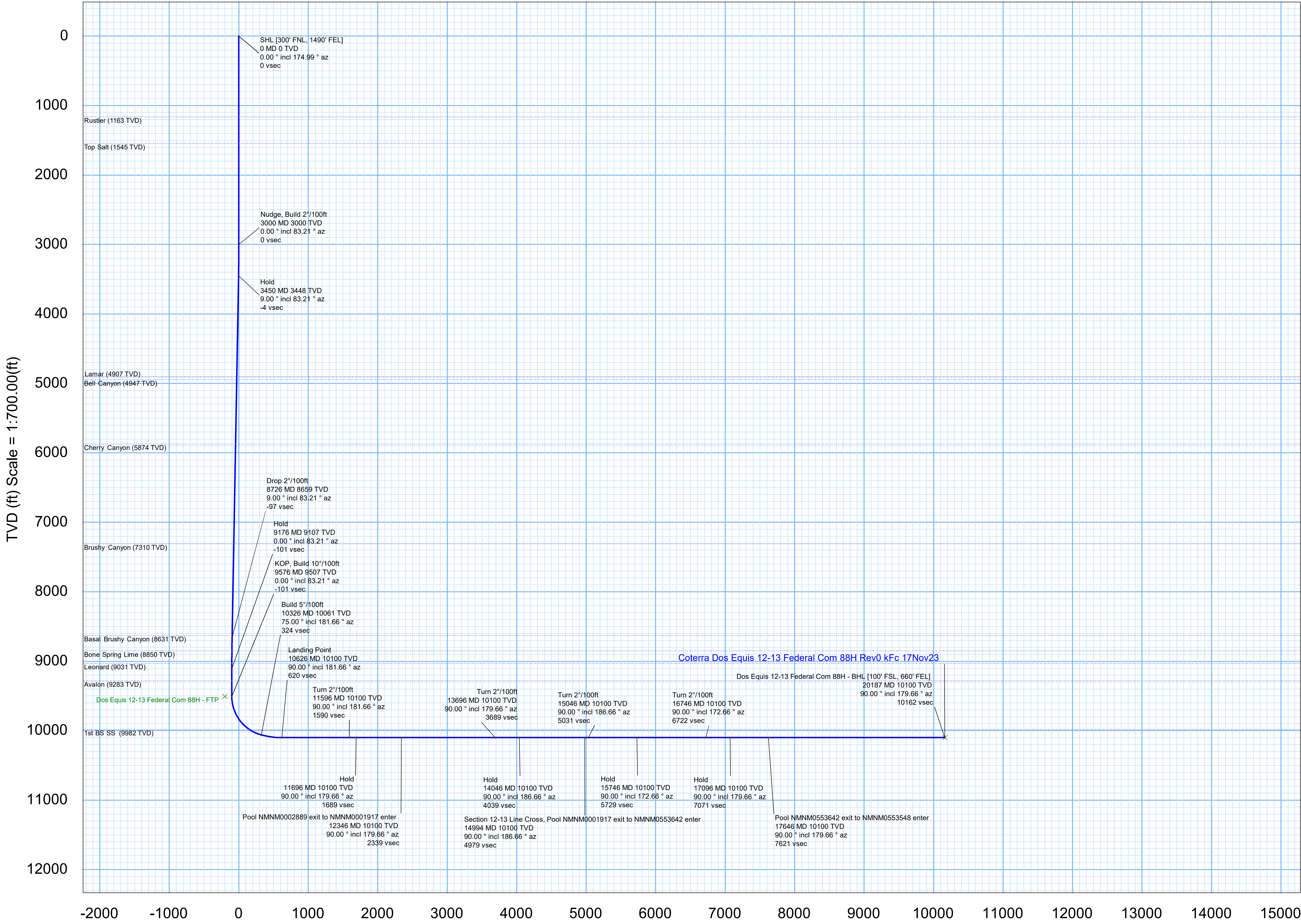
Drawing ref

Copy number of 3

Date 21-Nov-2023

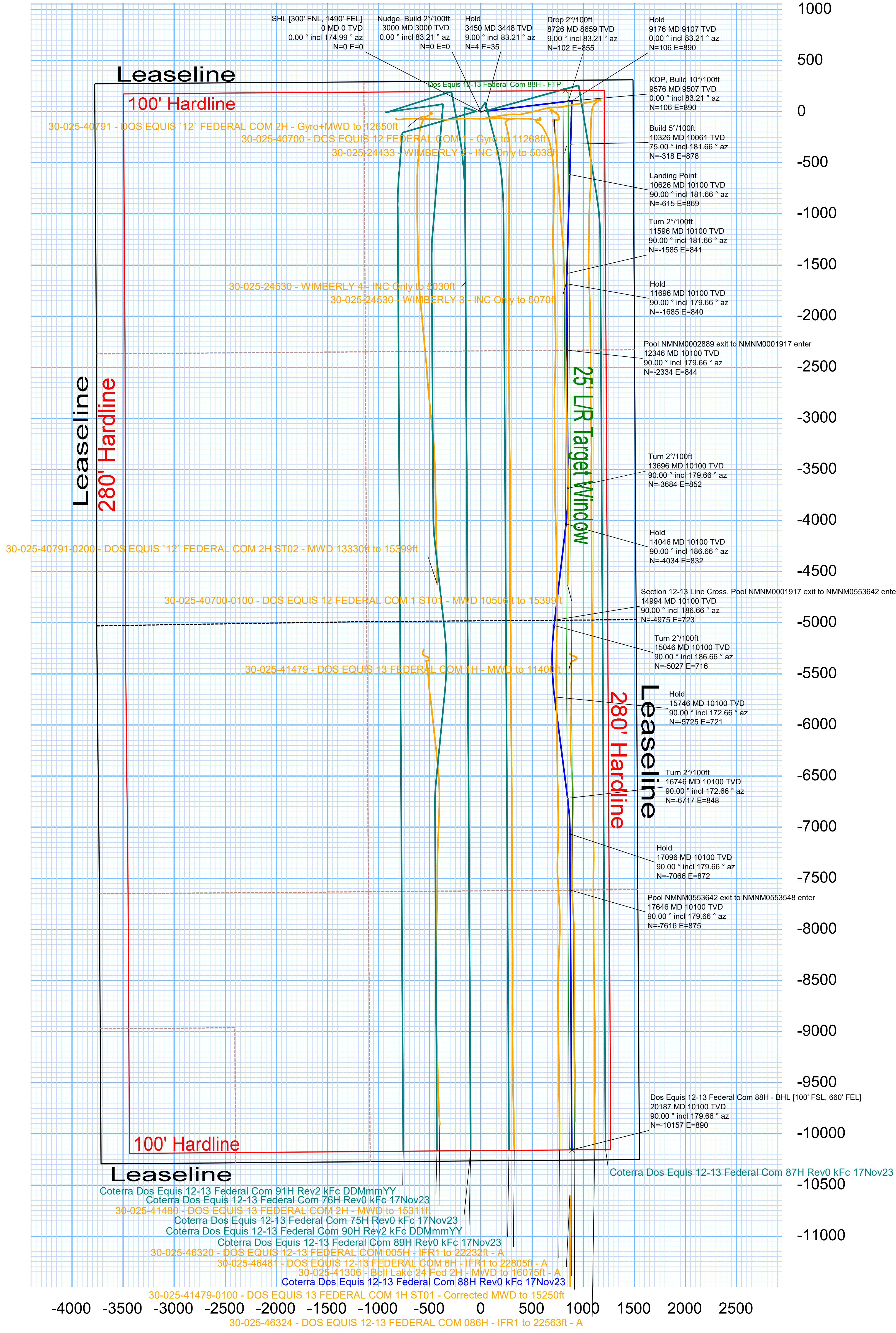
1	Client	
2	Client	
3	Office	
4	Office	

Copy number for



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

NS (ft) Scale = 1:518.17(ft)



EW (ft) Scale = 1:518.17(ft)



Coterra Dos Equis 12-13 Federal Com 88H Rev0 kFc 17Nov23 Proposal
Geodetic Report
Def Plan

Report Date:	November 21, 2023 - 09:03 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 88H	TVD Reference Elevation:	3623.200 ft above MSL
Borehole:	Dos Equis 12-13 Federal Com 88H	Seabed / Ground Elevation:	3600.200 ft above MSL
UBHI / API#:	Unknown / Unknown	Magnetic Declination:	6.209°
Survey Name:	Coterra Dos Equis 12-13 Federal Com 88H Rev0 kFc 17Nov23	Total Gravity Field Strength:	998.4394mgn (9.80665 Based)
Survey Date:	November 21, 2023	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	138.005 ° / 11178.135 ft / 6.489 / 1.107	Total Magnetic Field Strength:	47445.313 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.792°
Location Lat / Long:	32°14'19.08601"N , 103°37'28.57986"W	Declination Date:	November 17, 2023
Location Grid N/E Y/X:	N 451271.950 ftUS , E 760466.170 ftUS	Magnetic Declination Model:	HDGM 2022
CRS Grid Convergence Angle:	0.378°	North Reference:	Grid North
Grid Scale Factor:	0.99996409	Grid Convergence Used:	0.378°
Version / Patch:	2023.1.0.1	Total Corr Mag North->Grid North:	5.83°
		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, 1490° FEL]	0.00	0.00	174.99	0.00	-3.623.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552			
	100.00	0.00	83.21	100.00	-3.523.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	200.00	0.00	83.21	200.00	-3.423.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	300.00	0.00	83.21	300.00	-3.323.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	400.00	0.00	83.21	400.00	-3.223.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	500.00	0.00	83.21	500.00	-3.123.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	600.00	0.00	83.21	600.00	-3.023.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	700.00	0.00	83.21	700.00	-2.923.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	800.00	0.00	83.21	800.00	-2.823.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	900.00	0.00	83.21	900.00	-2.723.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
Rustler	1,000.00	0.00	83.21	1,000.00	-2.623.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,100.00	0.00	83.21	1,100.00	-2.523.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,163.00	0.00	83.21	1,163.00	-2.460.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,200.00	0.00	83.21	1,200.00	-2.423.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,300.00	0.00	83.21	1,300.00	-2.323.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,400.00	0.00	83.21	1,400.00	-2.223.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,500.00	0.00	83.21	1,500.00	-2.123.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,545.00	0.00	83.21	1,545.00	-2.078.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,600.00	0.00	83.21	1,600.00	-2.023.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,700.00	0.00	83.21	1,700.00	-1.923.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
Top Salt	1,800.00	0.00	83.21	1,800.00	-1.823.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	1,900.00	0.00	83.21	1,900.00	-1.723.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,000.00	0.00	83.21	2,000.00	-1.623.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,100.00	0.00	83.21	2,100.00	-1.523.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,200.00	0.00	83.21	2,200.00	-1.423.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,300.00	0.00	83.21	2,300.00	-1.323.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,400.00	0.00	83.21	2,400.00	-1.223.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,500.00	0.00	83.21	2,500.00	-1.123.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,600.00	0.00	83.21	2,600.00	-1.023.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,700.00	0.00	83.21	2,700.00	-923.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
Nudge, Build 2°/100ft	2,800.00	0.00	83.21	2,800.00	-823.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	2,900.00	0.00	83.21	2,900.00	-723.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	3,000.00	0.00	83.21	3,000.00	-623.20	0.00	0.00	0.00	451,271.95	760,466.17	32.23863500	-103.62460552	0.00	0.00	0.00
	3,100.00	2.00	83.21	3,099.98	-523.22	-0.20	0.21	1.73	451,272.16	760,467.90	32.23863554	-103.62459991	2.00	2.00	0.00
	3,200.00	4.00	83.21	3,199.84	-423.36	-0.78	0.83	6.93	451,272.78	760,473.10	32.23863715	-103.62458309	2.00	2.00	0.00
	3,300.00	6.00	83.21	3,299.45	-323.75	-1.76	1.86	15.58	451,273.81	760,481.75	32.23863982	-103.62455508	2.00	2.00	0.00
	3,400.00	8.00	83.21	3,398.70	-224.50	-3.13	3.30	27.68	451,275.25	760,493.85	32.23864356	-103.62451592	2.00	2.00	0.00
	3,450.21	9.00	83.21	3,448.36	-174.84	-3.97	4.18	35.06	451,276.12	760,501.22	32.23864584	-103.62449206	2.00	2.00	0.00
	3,500.00	9.00	83.21	3,497.54	-125.66	-4.84	5.10	42.79	451,277.05	760,508.96	32.23864824	-103.62446702	0.00	0.00	0.00
	3,600.00	9.00	83.21	3,596.30	-26.90	-6.60	6.95	58.33	451,278.90	760,524.50	32.23865304	-103.62441672	0.00	0.00	0.00
Hold	3,700.00	9.00	83.21	3,695.07	71.87	-8.36	8.80	73.87	451,280.75	760,540.04	32.23865785	-103.62436642	0.00	0.00	0.00
	3,800.00	9.00	83.21	3,793.84	170.64	-10.12	10.65	89.42	451,282.60	760,555.58	32.23866265	-103.62431612	0.00	0.00	0.00
	3,900.00	9.00	83.21	3,892.61	269.41	-11.88	12.50	104.96	451,284.45	760,571.12	32.23866746	-103.62426582	0.00	0.00	0.00
	4,000.00	9.00	83.21	3,991.37	368.17	-13.64	14.35	120.50	451,286.30	760,586.66	32.23867226	-103.62421553	0.00	0.00	0.00
	4,100.00	9.00	83.21	4,090.14	466.94	-15.39	16.20	136.04	451,288.15	760,602.20	32.23867707	-103.62416523	0.00	0.00	0.00
	4,200.00	9.00	83.21	4,188.91	565.71	-17.15	18.05	151.58	451,290.00	760,617.74	32.23868187	-103.62411493	0.00	0.00	0.00
	4,300.00	9.00	83.21	4,287.68	664.48	-18.91	19.90	167.12	451,291.85	760,633.28	32.23868668	-103.62406463	0.00	0.00	0.00
	4,400.00	9.00	83.21	4,386.44	763.24	-20.67	21.76	182.66	451,293.70	760,648.82	32.23869149	-103.62401433	0.00	0.00	0.00
	4,500.00	9.00	83.21	4,485.21	862.01	-22.43	23.61	198.20	451,295.56	760,664.36	32.23869629	-103.62396404	0.00	0.00	0.00
	4,600.00	9.00	83.21	4,583.98	960.78	-24.19	25.46	213.74	451,297.41	760,679.90	32.23870110	-103.62391374	0.00	0.00	0.00
Lamar Bell Canyon	4,700.00	9.00	83.21	4,682.75	1,059.55	-25.95	27.31	229.28	451,299.26	760,695.44	32.23870590	-103.62386344	0.00	0.00	0.00
	4,800.00	9.00	83.21	4,781.52	1,158.32	-27.71	29.16	244.82	451,301.11	760,710.98	32.23871071	-103.62381314	0.00	0.00	0.00
	4,900.00	9.00	83.21	4,880.28	1,257.08	-29.46	31.01	260.36	451,302.96	760,726.52	32.23871551	-103.62376284	0.00	0.00	0.00
	4,927.05	9.00	83.21	4,907.00	1,283.80	-29.94	31.51	264.57	451,303.46	760,730.73	32.23871681	-103.62374924	0.00	0.00	0.00
	4,967.55	9.00	83.21	4,947.00	1,323.80	-30.65	32.26	270.86	451,304.21	760,737.02	32.23871876	-103.62372887	0.00	0.00	0.00
	5,000.00	9.00	83.21	4,979.05	1,355.85	-31.22									

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
KOP, Build 10°/100ft	9,576.14	0.00	83.21	9,507.43	5,884.23	-100.72	106.00	890.00	451,377.95	761,356.14	32.23891018	-103.62172502	0.00	0.00	0.00
	9,600.00	2.39	181.66	9,531.28	5,908.08	-100.22	105.50	889.99	451,377.45	761,356.12	32.23890881	-103.62172507	10.00	10.00	0.00
	9,700.00	12.39	181.66	9,630.32	6,007.12	-87.39	92.67	889.61	451,364.62	761,355.75	32.23887355	-103.62172655	10.00	10.00	0.00
	9,800.00	22.39	181.66	9,725.63	6,102.43	-57.57	62.84	888.75	451,334.79	761,354.89	32.23879158	-103.62172999	10.00	10.00	0.00
	9,900.00	32.39	181.66	9,814.31	6,191.11	-11.66	16.92	887.42	451,288.87	761,353.55	32.23866539	-103.62173527	10.00	10.00	0.00
	10,000.00	42.39	181.66	9,893.67	6,270.47	48.95	-43.69	885.66	451,228.26	761,351.80	32.23849881	-103.62174225	10.00	10.00	0.00
	10,100.00	52.39	181.66	9,961.29	6,338.09	122.40	-117.16	883.53	451,154.79	761,349.67	32.23829692	-103.62175071	10.00	10.00	0.00
	10,135.37	55.92	181.66	9,982.00	6,358.80	151.05	-145.82	882.70	451,126.14	761,348.84	32.23821817	-103.62175401	10.00	10.00	0.00
	10,200.00	62.39	181.66	10,015.12	6,391.92	206.48	-201.25	881.10	451,070.71	761,347.23	32.23806583	-103.62176040	10.00	10.00	0.00
	10,300.00	72.39	181.66	10,053.52	6,430.32	298.61	-293.41	878.42	450,978.55	761,344.56	32.23781259	-103.62177101	10.00	10.00	0.00
Build 5°/100ft	10,326.14	75.00	181.66	10,060.86	6,437.66	323.69	-318.49	877.70	450,953.47	761,343.83	32.23774366	-103.62177390	10.00	10.00	0.00
	10,400.00	78.69	181.66	10,077.67	6,454.47	395.55	-390.36	875.62	450,881.60	761,341.75	32.23754615	-103.62178217	5.00	5.00	0.00
	10,500.00	83.69	181.66	10,092.97	6,469.77	494.28	-489.11	872.75	450,782.86	761,338.89	32.23727478	-103.62179354	5.00	5.00	0.00
	10,600.00	88.69	181.66	10,099.61	6,476.41	593.97	-588.82	869.86	450,683.16	761,336.00	32.23700078	-103.62180502	5.00	5.00	0.00
Landing Point	10,626.14	90.00	181.66	10,099.91	6,476.71	620.09	-614.95	869.11	450,657.03	761,335.24	32.23692897	-103.62180803	5.00	5.00	0.00
	10,700.00	90.00	181.66	10,099.91	6,476.71	693.90	-688.77	866.97	450,583.20	761,333.10	32.23672610	-103.62181653	0.00	0.00	0.00
	10,800.00	90.00	181.66	10,099.91	6,476.71	793.84	-788.73	864.07	450,483.25	761,330.21	32.23645141	-103.62182804	0.00	0.00	0.00
	10,900.00	90.00	181.66	10,099.91	6,476.71	893.78	-888.69	861.17	450,383.30	761,327.31	32.23617672	-103.62183955	0.00	0.00	0.00
	11,000.00	90.00	181.66	10,099.91	6,476.71	993.72	-988.65	858.28	450,283.34	761,324.41	32.23590203	-103.62185106	0.00	0.00	0.00
	11,100.00	90.00	181.66	10,099.91	6,476.71	1,093.66	-1,088.60	855.38	450,183.39	761,321.52	32.23562734	-103.62186257	0.00	0.00	0.00
	11,200.00	90.00	181.66	10,099.91	6,476.71	1,193.60	-1,188.56	852.48	450,083.43	761,318.62	32.23535265	-103.62187408	0.00	0.00	0.00
	11,300.00	90.00	181.66	10,099.91	6,476.71	1,293.54	-1,288.52	849.59	449,983.48	761,315.72	32.23507796	-103.62188559	0.00	0.00	0.00
	11,400.00	90.00	181.66	10,099.91	6,476.71	1,393.48	-1,388.48	846.69	449,883.52	761,312.83	32.23480327	-103.62189710	0.00	0.00	0.00
	11,500.00	90.00	181.66	10,099.91	6,476.71	1,493.42	-1,488.44	843.79	449,783.57	761,309.93	32.23452858	-103.62190861	0.00	0.00	0.00
Turn 2°/100ft	11,596.14	90.00	181.66	10,099.91	6,476.71	1,589.50	-1,584.54	841.01	449,687.47	761,307.15	32.23426448	-103.62191967	0.00	0.00	0.00
	11,600.00	90.00	181.58	10,099.91	6,476.71	1,593.36	-1,588.39	840.90	449,683.62	761,307.04	32.23425389	-103.62192011	2.00	0.00	-2.00
Hold	11,696.14	90.00	179.66	10,099.91	6,476.71	1,689.48	-1,684.53	839.86	449,587.49	761,305.99	32.23398967	-103.62192554	2.00	0.00	-2.00
	11,700.00	90.00	179.66	10,099.91	6,476.71	1,693.34	-1,688.38	839.88	449,583.63	761,306.02	32.23397907	-103.62192555	0.00	0.00	0.00
	11,800.00	90.00	179.66	10,099.91	6,476.71	1,793.34	-1,788.38	840.47	449,483.64	761,306.61	32.23370421	-103.62192577	0.00	0.00	0.00
	11,900.00	90.00	179.66	10,099.91	6,476.71	1,893.34	-1,888.38	841.07	449,383.64	761,307.20	32.23342935	-103.62192599	0.00	0.00	0.00
	12,000.00	90.00	179.66	10,099.91	6,476.71	1,993.34	-1,988.38	841.66	449,283.65	761,307.80	32.23315448	-103.62192621	0.00	0.00	0.00
	12,100.00	90.00	179.66	10,099.91	6,476.71	2,093.34	-2,088.38	842.25	449,183.65	761,308.39	32.23287962	-103.62192644	0.00	0.00	0.00
	12,200.00	90.00	179.66	10,099.91	6,476.71	2,193.34	-2,188.38	842.85	449,083.66	761,308.98	32.23260475	-103.62192666	0.00	0.00	0.00
	12,300.00	90.00	179.66	10,099.91	6,476.71	2,293.34	-2,288.37	843.44	448,983.66	761,309.58	32.23232989	-103.62192688	0.00	0.00	0.00
	12,346.00	90.00	179.66	10,099.91	6,476.71	2,339.34	-2,334.37	843.71	448,937.67	761,309.85	32.23220345	-103.62192698	0.00	0.00	0.00
	12,400.00	90.00	179.66	10,099.91	6,476.71	2,393.34	-2,388.37	844.03	448,883.67	761,310.17	32.23205502	-103.62192710	0.00	0.00	0.00
Pool NMNM0002889 exit to NMI	12,500.00	90.00	179.66	10,099.91	6,476.71	2,493.34	-2,488.37	844.63	448,783.67	761,310.76	32.23178016	-103.62192733	0.00	0.00	0.00
	12,600.00	90.00	179.66	10,099.91	6,476.71	2,593.34	-2,588.37	845.22	448,683.68	761,311.36	32.23150529	-103.62192755	0.00	0.00	0.00
	12,700.00	90.00	179.66	10,099.91	6,476.71	2,693.34	-2,688.37	845.81	448,583.69	761,311.95	32.23123043	-103.62192777	0.00	0.00	0.00
	12,800.00	90.00	179.66	10,099.91	6,476.71	2,793.34	-2,788.36	846.41	448,483.69	761,312.54	32.23095556	-103.62192799	0.00	0.00	0.00
	12,900.00	90.00	179.66	10,099.91	6,476.71	2,893.34	-2,888.36	847.00	448,383.70	761,313.14	32.23068070	-103.62192822	0.00	0.00	0.00
	13,000.00	90.00	179.66	10,099.91	6,476.71	2,993.34	-2,988.36	847.59	448,283.70	761,313.73	32.23040583	-103.62192844	0.00	0.00	0.00
	13,100.00	90.00	179.66	10,099.91	6,476.71	3,093.34	-3,088.36	848.19	448,183.71	761,314.32	32.23013097	-103.62192866	0.00	0.00	0.00
	13,200.00	90.00	179.66	10,099.91	6,476.71	3,193.34	-3,188.36	848.78	448,083.71	761,314.92	32.22985611	-103.62192888	0.00	0.0.	

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	9,500.000	1/100.000	—	—	A001Mb_MWD						Dos Equis 12-13 Federal Com 88H / Coterra Dos I	
		1	9,500.000	19,870.145	1/100.000	—	—	A008Mb_MWD+IFR1+MS						Dos Equis 12-13 Federal Com 88H / 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
1,207.000	14.500	10.750	
	9.875	7.625	
	8.750	7.625	
20,186.739	6.750	5.000	



Coterra Dos Equis 12-13 Federal Com 88H Rev0 kFc 17Nov23 Anti-Collision Summary Report

Analysis Date-24hr Time: November 21, 2023 - 09:03 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 88H
Well: Dos Equis 12-13 Federal Com 88H
Borehole: Dos Equis 12-13 Federal Com 88H
Scan MD Range: 0.00ft ~ 20186.74ft

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Dos Equis 12-13 Federal Com 88H 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 88H--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

21 out of 23 are selected

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 89H 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	24696.71	MAS = 5.03 (m)	23.00	23.00					WRP	
20.00	20.07	5.79	-0.07	1.49	OSF1.50	1230.00	1230.00		OSF<1.50			Enter Minor	
20.00	28.79	-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	2257.39	2257.39					MinPt-CtCt	
16.34	35.69	-8.29	-19.35	0.63	OSF1.50	2270.00	2270.00					MinPt-SF	
16.42	35.84	-8.31	-19.42	0.63	OSF1.50	2280.00	2280.00					MinPt-EOU	
16.54	35.99	-8.28	-19.44	0.63	OSF1.50	2290.00	2290.00					MinPt-ADP	
26.68	39.07	-0.20	-12.39	0.99	OSF1.50	2500.00	2500.00			OSF>1.00		Exit Major	
41.85	42.04	12.99	-0.19	1.49	OSF1.50	2700.00	2700.00		OSF>1.50			Exit Minor	
84.14	55.22	46.49	28.92	2.32	OSF1.50	3570.00	3566.67					MinPt-CtCt	
84.31	55.68	46.36	28.63	2.31	OSF1.50	3600.00	3596.30					MinPt-EOU	
84.57	55.99	46.41	28.58	2.30	OSF1.50	3620.00	3616.06					MinPt-ADP	
85.17	56.44	46.71	28.73	2.30	OSF1.50	3650.00	3645.69					MinPt-SF	
253.01	77.66	200.41	175.36	5.00	OSF1.50	5090.00	5067.94	OSF>5.00				Exit Alert	
846.18	146.21	747.87	699.97	8.81	OSF1.50	9790.00	9716.35					MinPt-CtCt	
846.24	146.45	747.78	699.80	8.79	OSF1.50	9820.00	9743.99					MinPt-EOU	
846.30	146.52	747.79	699.78	8.79	OSF1.50	9830.00	9753.06					MinPt-ADP	
849.15	147.41	750.05	701.74	8.76	OSF1.50	9940.00	9847.32					MinPt-SF	
894.52	136.94	802.39	757.58	9.95	OSF1.50	11696.14	10099.91					MinPt-CtCt	
790.54	212.51	648.04	578.03	5.63	OSF1.50	15400.00	10099.91					MinPt-CtCt	
791.42	215.05	647.22	576.37	5.57	OSF1.50	15490.00	10099.91					MinPt-EOU	
792.60	216.51	647.43	576.10	5.54	OSF1.50	15540.00	10099.91					MinPt-ADP	
894.55	270.13	713.63	624.42	5.00	OSF1.50	17280.00	10099.92	OSF<5.00				Enter Alert	
894.63	357.00	655.80	537.63	3.77	OSF1.50	20186.74	10100.00					MinPts	

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

19.99	16.49	17.49	3.50	N/A	MAS = 5.03 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
19.99	16.49	17.49	3.50	16455.06	MAS = 5.03 (m)	23.00	23.00					WRP	
19.99	20.07	5.78	-0.08	1.49	OSF1.50	1230.00	1230.00		OSF<1.50			Enter Minor	
19.99	25.48	2.17	-5.49	1.14	OSF1.50	1590.00	1590.00					MinPt-CtCt	
20.15	26.07	1.93	-5.93	1.12	OSF1.50	1630.00	1630.00					MinPts	
20.26	26.22	1.95	-5.96	1.12	OSF1.50	1640.00	1640.00					MinPt-ADP	
28.96	28.96	8.82	0.00	1.50	OSF1.50	1830.00	1830.00		OSF>1.50			Exit Minor	
115.33	36.65	90.06	78.68	4.96	OSF1.50	2380.00	2380.00	OSF>5.00				Exit Alert	
370.30	113.43	293.85	256.87	4.97	OSF1.50	7300.00	7250.71	OSF<5.00				Enter Alert	
164.93	153.75	61.60	11.18	1.61	OSF1.50	9576.14	9507.43					MinPt-CtCt	
164.94	153.78	61.59	11.16	1.61	OSF1.50	9580.00	9511.29					MinPts	
527.84	160.16	420.23	367.68	5.00	OSF1.50	10270.00	10043.70	OSF>5.00				Exit Alert	
1486.96	156.61	1381.72	1330.35	14.45	OSF1.50	13696.14	10099.91					MinPt-CtCt	
1489.11	162.89	1379.68	1326.22	13.90	OSF1.50	13930.00	10099.91					MinPt-EOU	
1491.68	165.93	1380.23	1325.75	13.67	OSF1.50	14040.00	10099.91					MinPt-ADP	
1486.77	351.16	1251.84	1135.62	6.39	OSF1.50	20186.74	10100.00					MinPts	

Coterra Dos Equis 12-13 Federal Com 90H 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	21.02	7.64	2.21	MAS = 9.86 (m)	1790.00	1790.00					MinPts	
40.14	32.36	20.77	7.79	2.17	MAS = 9.86 (m)	1830.00	1830.00					MinPt-EOU	
40.58	32.36	20.92	8.23	2.16	MAS = 9.86 (m)	1860.00	1860.00					MinPt-SF	
188.79	58.03	149.58	130.75	4.97	OSF1.50	3860.00	3853.10	OSF>5.00				Exit Alert	
1056.42	137.67	964.12	918.75	11.62	OSF1.50	9340.00	9271.29					MinPt-SF	
1108.79	139.62	1015.23	969.17	12.02	OSF1.50	11696.14	10099.91					MinPt-CtCt	
964.79	215.28	820.79	749.51	6.76	OSF1.50	15400.00	10099.91					MinPt-CtCt	
965.40	216.88	820.33	748.52	6.71	OSF1.50	15460.00	10099.91					MinPt-EOU	
966.11	217.69	820.50	748.41	6.69	OSF1.50	15490.00	10099.91					MinPt-ADP	
1109.02	333.99	885.88	775.03	5.00	OSF1.50	19510.00	10099.98	OSF<5.00				Enter Alert	
1109.07	354.25	872.42	754.82	4.71	OSF1.50	20186.74	10100.00					MinPts	

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

59.99	32.81	58.19	27.19	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
59.99	32.81	58.19	27.19	41054.54	MAS = 10.00 (m)	23.00	23.00					WRP	
59.99	32.81	52.89	27.19	10.98	MAS = 10.00 (m)	590.00	590.00					MinPt-EOU	
59.99	32.81	46.63	27.19	4.98	MAS = 10.00 (m)	1230.00	1230.00	OSF<5.00				Enter Alert	
59.99	32.81	46.03	27.19	4.74	MAS = 10.00 (m)	1290.00	1290.00					MinPts	
60.15	32.81	45.79	27.34	4.60	MAS = 10.00 (m)	1330.00	1330.00					MinPt-EOU	
62.80	32.81	47.48	29.99	4.47	MAS = 10.00 (m)	1430.00	1430.00					MinPt-SF	
79.19	32.81	61.91	46.38	4.96	MAS = 10.00 (m)	1640.00	1640.00	OSF>5.00				Exit Alert	
1695.64	137.76	1603.29	1557.88	18.65	OSF1.50	9330.00	9261.29					MinPt-SF	
1723.65	145.92	1625.89	1577.73	17.88	OSF1.50	11696.14	10099.91					MinPt-CtCt	
1566.94	218.81	1420.59	1348.13	10.80	OSF1.50	15400.00	10099.91					MinPt-CtCt	
1567.42	220.08	1420.22	1347.34	10.74	OSF1.50	15450.00	10099.91					MinPt-EOU	
1567.84	220.59	1420.30	1347.25	10.72	OSF1.50	15470.00	10099.91					MinPt-ADP	
1723.99	353.38	1487.92	1370.61	7.34	OSF1.50	20186.74	10100.00					MinPts	

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

84.84	32.81	82.34	52.03	139285.53	MAS = 10.00 (m)	0.00	0.00					MinPts	
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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		
	84.88	32.81	82.36	52.07	5356.73	MAS = 10.00 (m)	23.00	23.00				WRP	
	84.95	32.81	82.36	52.14	911.82	MAS = 10.00 (m)	40.00	40.00				MinPt-EOU	
	91.64	32.81	71.19	58.83	4.97	MAS = 10.00 (m)	1880.00	1880.00	OSF<5.00			Enter Alert	
	78.82	43.69	48.86	35.13	2.78	OSF1.50	2838.25	2838.25				MinPt-CtCt	
	78.95	44.16	48.68	34.79	2.75	OSF1.50	2870.00	2870.00				MinPt-EOU	
	79.17	44.45	48.71	34.73	2.74	OSF1.50	2890.00	2890.00				MinPt-ADP	
	80.20	45.17	49.26	35.04	2.73	OSF1.50	2940.00	2940.00				MinPt-SF	
	105.15	54.53	67.97	50.63	2.96	OSF1.50	3610.00	3606.18				MinPt-EOU	
	105.60	55.09	68.05	50.52	2.94	OSF1.50	3650.00	3645.69				MinPt-ADP	
	111.38	60.87	69.97	50.51	2.80	OSF1.50	4040.00	4030.88				MinPt-EOU	
	112.96	62.77	70.28	50.19	2.75	OSF1.50	4170.00	4159.28				MinPt-ADP	
	115.22	64.34	71.49	50.88	2.73	OSF1.50	4280.00	4267.92				MinPt-SF	
	120.70	67.37	74.95	53.33	2.73	OSF1.50	4480.00	4465.46				MinPt-SF	
	131.09	75.85	79.69	55.24	2.63	OSF1.50	5020.00	4998.80				MinPt-CtCt	
	131.35	76.55	79.48	54.80	2.61	OSF1.50	5070.00	5048.19				MinPt-EOU	
	131.59	76.83	79.54	54.77	2.61	OSF1.50	5090.00	5067.94				MinPt-ADP	
	134.58	79.17	80.97	55.42	2.58	OSF1.50	5250.00	5225.97				MinPt-SF	
	152.86	92.16	90.59	60.70	2.52	OSF1.50	6100.00	6065.50				MinPt-EOU	
	154.16	93.65	90.89	60.51	2.50	OSF1.50	6200.00	6164.26				MinPt-ADP	
	156.29	95.79	91.59	60.50	2.47	OSF1.50	6340.00	6302.54				MinPt-ADP	
	159.18	98.02	93.01	61.17	2.46	OSF1.50	6490.00	6450.69				MinPt-SF	
	161.69	122.10	79.46	39.59	2.00	OSF1.50	8030.00	7971.71				MinPt-CtCt	
	163.17	126.06	78.30	37.12	1.95	OSF1.50	8290.00	8228.51				MinPt-EOU	
	166.03	133.51	76.19	32.51	1.87	OSF1.50	8760.00	8692.75				MinPt-CtCt	
	166.20	134.15	75.93	32.05	1.87	OSF1.50	8800.00	8732.37				MinPt-EOU	
	166.45	134.46	75.97	31.99	1.86	OSF1.50	8820.00	8752.20				MinPt-ADP	
	166.80	134.77	76.12	32.03	1.86	OSF1.50	8840.00	8772.06				MinPt-SF	
	504.58	153.93	401.12	350.65	4.97	OSF1.50	10326.14	10060.86	OSF>5.00			Exit Alert	
	2318.95	128.75	2232.29	2190.21	27.52	OSF1.50	12360.00	10099.91				MinPt-CtCt	
	2317.19	135.78	2225.84	2181.41	26.05	OSF1.50	12690.00	10099.91				MinPt-CtCt	
	2316.84	147.08	2217.95	2169.76	24.01	OSF1.50	13180.00	10099.91				MinPt-CtCt	
	2315.41	163.87	2205.33	2151.54	21.50	OSF1.50	13840.00	10099.91				MinPt-CtCt	
	2316.95	168.36	2203.87	2148.58	20.93	OSF1.50	14030.00	10099.91				MinPt-EOU	
	2320.99	174.84	2203.59	2146.14	20.18	OSF1.50	14270.00	10099.91				MinPt-EOU	
	2321.43	175.37	2203.69	2146.06	20.12	OSF1.50	14300.00	10099.91				MinPt-ADP	
	2326.59	184.90	2202.50	2141.70	19.11	OSF1.50	14650.00	10099.91				MinPt-EOU	
	2328.32	186.98	2202.83	2141.33	18.91	OSF1.50	14740.00	10099.91				MinPt-ADP	
	2317.93	250.61	2150.02	2067.32	14.00	OSF1.50	16910.00	10099.91				MinPt-CtCt	
	2318.37	251.81	2149.66	2066.56	13.93	OSF1.50	16970.00	10099.91				MinPt-EOU	
	2320.04	253.77	2150.03	2066.27	13.83	OSF1.50	17050.00	10099.91				MinPt-ADP	
	2322.36	275.71	2137.72	2046.65	12.74	OSF1.50	17720.00	10099.93				MinPt-CtCt	
	2318.59	295.42	2120.81	2023.17	11.86	OSF1.50	18360.00	10099.95				MinPt-CtCt	
	2318.30	301.28	2116.62	2017.02	11.63	OSF1.50	18550.00	10099.96				MinPt-CtCt	
	2316.67	338.18	2090.38	1978.48	10.34	OSF1.50	19730.00	10099.99				MinPt-CtCt	
	2317.14	339.66	2089.86	1977.48	10.30	OSF1.50	19800.00	10099.99				MinPt-EOU	
	2320.34	347.15	2088.07	1973.18	10.09	OSF1.50	20040.00	10100.00				MinPt-EOU	
	2321.06	348.01	2088.22	1973.05	10.07	OSF1.50	20080.00	10100.00				MinPt-ADP	
	2324.34	350.33	2089.96	1974.01	10.01	OSF1.50	20186.74	10100.00				MinPt-SF	
30-025-46481 - DOS EQUIS 12-13 FEDERAL COM 6H - IFR1 to 22805ft - A (DefinitiveSurvey)													Warning Alert
	99.98	32.81	97.48	67.17	1578604.53	MAS = 10.00 (m)	0.00	0.00				Surface	
	99.98	32.81	97.48	67.17	49506.19	MAS = 10.00 (m)	23.00	23.00				WRP	
	98.41	32.81	88.66	65.60	13.23	MAS = 10.00 (m)	800.00	800.00				MinPts	
	99.93	32.81	85.19	67.12	7.96	MAS = 10.00 (m)	1310.00	1310.00				MinPt-EOU	
	107.41	32.81	91.05	74.61	7.57	MAS = 10.00 (m)	1480.00	1480.00				MinPt-SF	
	315.54	56.87	276.79	258.67	8.64	OSF1.50	3750.00	3744.45				MinPt-CtCt	
	308.69	64.75	264.69	243.94	7.38	OSF1.50	4270.00	4258.05				MinPt-CtCt	
	307.57	69.82	260.19	237.74	6.80	OSF1.50	4600.00	4583.98				MinPt-CtCt	
	307.91	70.99	259.75	236.92	6.69	OSF1.50	4680.00	4662.99				MinPt-EOU	
	308.26	71.43	259.81	236.84	6.65	OSF1.50	4710.00	4692.62				MinPt-ADP	
	269.74	82.93	213.62	186.81	4.98	OSF1.50	5430.00	5403.75	OSF<5.00			Enter Alert	
	124.97	106.68	53.01	18.29	1.76	OSF1.50	6850.00	6806.25				MinPt-CtCt	
	125.18	107.33	52.79	17.85	1.76	OSF1.50	6890.00	6845.76				MinPt-EOU	
	125.56	107.80	52.86	17.76	1.75	OSF1.50	6920.00	6875.39				MinPt-ADP	
	125.73	107.96	52.93	17.78	1.75	OSF1.50	6930.00	6885.27				MinPt-SF	
	376.27	140.27	281.93	236.00	4.07	OSF1.50	9300.00	9231.29				MinPt-EOU	
	378.21	143.63	281.62	234.58	3.99	OSF1.50	9550.00	9481.29				MinPt-EOU	
	326.09	146.15	227.83	179.94	3.38	OSF1.50	10060.00	9935.79				MinPts	
	326.24	146.23	227.92	180.01	3.38	OSF1.50	10070.00	9942.37				MinPt-SF	
	497.82	151.49	395.99	346.33	4.99	OSF1.50	10470.00	10089.29	OSF>5.00			Exit Alert	
	2833.99	151.33	2732.26	2682.65	28.54	OSF1.50	13280.00	10099.91				MinPt-CtCt	
	2832.35	171.35	2717.28	2661.00	25.14	OSF1.50	14110.00	10099.91				MinPt-CtCt	
	2830.59	189.88	2703.17	2640.71	22.64	OSF1.50	14820.00	10099.91				MinPt-CtCt	
	2830.95	195.27	2699.94	2635.68	22.01	OSF1.50	15020.00	10099.91				MinPt-CtCt	
	2840.42	228.33	2687.37	2612.09	18.85	OSF1.50	16200.00	10099.91				MinPt-EOU	
	2841.60	229.73	2687.61	2611.87	18.74	OSF1.50	16260.00	10099.91				MinPt-ADP	
	2844.00	236.75	2685.33	2607.25	18.20	OSF1.50	16450.00	10099.91				MinPt-CtCt	
	2844.47	238.17	2684.86	2606.30	18.09	OSF1.50	16520.00	10099.91				MinPt-EOU	
	2845.13	238.98	2684.98	2606.15	18.03	OSF1.50	16560.00	10099.91				MinPt-ADP	
	2844.41	246.47	2679.26	2597.94	17.47	OSF1.50	16770.00	10099.91				MinPt-CtCt	
	2844.40	251.19	2676.10	2593.20	17.14	OSF1.50	16930.00	10099.91				MinPt-CtCt	
	2840.70	269.52	2660.18	2571.18	15.94	OSF1.50	17540.00	10099.93				MinPt-CtCt	
	2837.30	280.90	2649.20	2556.40	15.27	OSF1.50	17920.00	10099.94				MinPt-CtCt	
	2837.59	281.80	2648.89	2555.79	15.23	OSF1.50	17970.00	10099.94				MinPt-EOU	
	2839.05	284.10	2648.81	2554.95	15.11	OSF1.50	18060.00	10099.94				MinPt-EOU	
	2842.20	288.96	2648.72	2553.24	14.87	OSF1.50	18220.00	10099.95				MinPt-EOU	
	2849.45	331.37	2627.70	2518.08	12.98	OSF1.50	19550.00	10099.98				MinPt-CtCt	
	2850.11	349.21	2616.47	2500.90	12.32	OSF1.50	20120.00	10100.00				MinPt-CtCt	
	2850.26	351.10	2615.36	2499.16	12.25	OSF1.50	20186.74	10100.00				MinPts	
30-025-40700 - DOS EQUIS 12 FEDERAL COM 1 - Gyro to 11268ft (DefinitiveSurvey)													Warning Alert
	687.09	32.81	684.59	654.28	N/A	MAS = 10.00 (m)	0.00	0.00				MinPts	
	687.10	32.81	684.58	654.29	33818.12	MAS = 10.00 (m)	23.00	23.00				WRP	
	687.28	32.81	684.49	654.47	2358.42	MAS = 10.00 (m)	80.00	80.00				MinPt-EOU	
	688.66	32.81	684.11	655.85	334.92	MAS = 10.00 (m)	270.00	270.00				MinPt-EOU	
	692.20	32.81	672.38	659.39	39.83	MAS = 10.00 (m)	1810.00	1810.00				MinPts	
	300.82	92.19	238.53	208.63	4.99	OSF1.50	6130.00	6095.13	OSF<5.00			Enter Alert	
	136.26	122.53	53.74	13.72	1.67	OSF1.50	7888.26	7831.72				MinPt-CtCt	

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		
30-025-40700-0100 - DOS EQUIS 12 FEDERAL COM 1 ST01 - MWD 10506ft to 15399ft (DefinitiveSurvey)													
	687.09	32.81	684.59	654.28		N/A	MAS = 10.00 (m)	0.00	0.00				MinPts
	687.10	32.81	684.58	654.29	33818.12	MAS = 10.00 (m)	23.00	23.00					WRP
	687.28	32.81	684.49	654.47	2358.42	MAS = 10.00 (m)	80.00	80.00					MinPt-EOU
	688.66	32.81	684.11	655.85	334.92	MAS = 10.00 (m)	270.00	270.00					MinPt-EOU
	692.20	32.81	672.38	659.39	39.83	MAS = 10.00 (m)	1810.00	1810.00					MinPts
	300.82	92.19	238.53	208.63	4.99	OSF1.50	6130.00	6095.13	OSF<5.00				Enter Alert
	136.26	122.53	53.74	13.72	1.67	OSF1.50	7888.26	7831.72					MinPt-CtCt
	136.64	123.63	53.39	13.01	1.66	OSF1.50	7950.00	7892.70					MinPt-EOU
	136.93	123.97	53.45	12.96	1.66	OSF1.50	7970.00	7912.45					MinPt-ADP
	137.10	124.14	53.51	12.96	1.66	OSF1.50	7980.00	7922.33					MinPt-SF
	161.20	145.41	63.43	15.79	1.67	OSF1.50	10050.00	9929.08					MinPts
	496.84	152.75	394.18	344.10	4.94	OSF1.50	10560.00	10098.00	OSF>5.00				Exit Alert
	965.26	97.29	899.57	867.97	15.24	OSF1.50	11150.00	10099.91					MinPt-EOU
	965.33	97.36	899.59	867.97	15.22	OSF1.50	11160.00	10099.91					MinPt-ADP
	971.40	105.02	900.55	866.38	14.18	OSF1.50	11720.00	10099.91					MinPt-CtCt
	971.70	105.91	900.26	865.79	14.06	OSF1.50	11780.00	10099.91					MinPt-EOU
	972.73	108.39	899.64	864.34	13.74	OSF1.50	11910.00	10099.91					MinPt-CtCt
	973.17	109.69	899.21	863.48	13.58	OSF1.50	11990.00	10099.91					MinPt-EOU
	972.81	115.40	895.05	857.41	12.89	OSF1.50	12270.00	10099.91					MinPt-CtCt
	972.36	120.96	890.89	851.40	12.28	OSF1.50	12530.00	10099.91					MinPt-CtCt
	970.93	128.00	884.77	842.93	11.58	OSF1.50	12840.00	10099.91					MinPt-CtCt
	971.42	129.59	884.19	841.83	11.44	OSF1.50	12920.00	10099.91					MinPt-EOU
	973.03	139.19	879.40	833.84	10.65	OSF1.50	13300.00	10099.91					MinPt-CtCt
	975.54	145.73	877.55	829.81	10.19	OSF1.50	13570.00	10099.91					MinPt-EOU
	978.63	149.17	878.35	829.46	9.98	OSF1.50	13710.00	10099.91					MinPt-ADP
	979.21	156.47	874.06	822.74	9.52	OSF1.50	13960.00	10099.91					MinPt-CtCt
	980.44	159.06	873.56	821.37	9.37	OSF1.50	14070.00	10099.91					MinPt-EOU
	989.08	176.01	870.90	813.06	8.53	OSF1.50	14650.00	10099.91					MinPts
	989.26	176.05	871.05	813.20	8.53	OSF1.50	14660.00	10099.91					MinPt-SF
	5613.21	171.59	5497.98	5441.62	49.77	OSF1.50	20186.74	10100.00					TD
30-025-41479-0100 - DOS EQUIS 13 FEDERAL COM 1H ST01 - Corrected MWD to 15250ft (DefinitiveSurvey)													
	5364.74	32.81	5362.24	5331.94		N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	5364.71	32.81	5362.21	5331.90	1194554.73	MAS = 10.00 (m)	10.00	10.00					MinPt-SF
	5364.70	32.81	5362.20	5331.89	3312157.90	MAS = 10.00 (m)	20.00	20.00					MinPt-EOU
	5364.70	32.81	5362.20	5331.89	#####	MAS = 10.00 (m)	23.00	23.00					WRP
	5364.39	32.81	5360.95	5331.58	5723.71	MAS = 10.00 (m)	170.00	170.00					MinPts
	5365.64	32.81	5357.35	5332.83	925.73	MAS = 10.00 (m)	660.00	660.00					MinPts
	5368.60	32.81	5353.57	5335.79	428.35	MAS = 10.00 (m)	1360.00	1360.00					MinPt-EOU
	5372.18	32.81	5353.47	5339.38	331.20	MAS = 10.00 (m)	1730.00	1730.00					MinPt-EOU
	5373.85	32.81	5353.33	5341.04	298.17	MAS = 10.00 (m)	1910.00	1910.00					MinPt-EOU
	5373.77	65.87	5329.02	5307.90	127.14	OSF1.50	4330.00	4317.31					MinPt-CtCt
	5375.68	71.76	5327.01	5303.92	116.38	OSF1.50	4730.00	4712.38					MinPt-EOU
	5377.11	73.49	5327.28	5303.62	113.56	OSF1.50	4850.00	4830.90					MinPt-ADP
	5379.37	75.83	5327.98	5303.54	109.98	OSF1.50	5000.00	4979.05					MinPt-ADP
	5383.91	80.14	5329.65	5303.77	103.97	OSF1.50	5270.00	5245.72					MinPt-ADP
	5387.10	83.20	5330.80	5303.90	100.08	OSF1.50	5460.00	5433.38					MinPt-ADP
	5404.11	100.60	5336.21	5303.51	82.59	OSF1.50	6530.00	6490.20					MinPt-ADP
	5406.67	103.23	5337.02	5303.45	80.48	OSF1.50	6690.00	6648.23					MinPt-ADP
	5417.09	112.73	5341.10	5304.35	73.68	OSF1.50	7270.00	7221.08					MinPt-ADP
	5421.76	117.23	5342.78	5304.54	70.85	OSF1.50	7540.00	7487.75					MinPt-ADP
	520.60	160.34	412.87	360.26	4.92	OSF1.50	14900.00	10099.91	OSF<5.00				Enter Alert
	197.25	193.53	67.40	3.72	1.53	OSF1.50	15398.14	10099.91					MinPts
	523.74	160.13	416.15	363.61	4.96	OSF1.50	15900.00	10099.91	OSF>5.00				Exit Alert
	914.36	190.33	786.64	724.03	7.28	OSF1.50	17030.00	10099.91					MinPt-CtCt
	914.28	207.56	775.07	706.72	6.67	OSF1.50	17710.00	10099.93					MinPt-CtCt
	865.32	243.88	701.90	621.44	5.36	OSF1.50	19050.00	10099.97					MinPt-CtCt
	865.48	244.48	701.65	620.99	5.35	OSF1.50	19080.00	10099.97					MinPt-EOU
	866.00	245.11	701.76	620.89	5.34	OSF1.50	19110.00	10099.97					MinPt-ADP
	911.54	268.67	731.59	642.87	5.12	OSF1.50	19960.00	10099.99					MinPt-SF
	950.21	264.02	773.36	686.19	5.44	OSF1.50	20186.74	10100.00					TD
30-025-41479 - DOS EQUIS 13 FEDERAL COM 1H - MWD to 11400ft (DefinitiveSurvey)													
	5364.74	32.81	5362.24	5331.94		N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	5364.71	32.81	5362.21	5331.90	1194554.73	MAS = 10.00 (m)	10.00	10.00					MinPt-SF
	5364.70	32.81	5362.20	5331.89	3312157.90	MAS = 10.00 (m)	20.00	20.00					MinPt-EOU
	5364.70	32.81	5362.20	5331.89	#####	MAS = 10.00 (m)	23.00	23.00					WRP
	5364.39	32.81	5360.95	5331.58	5723.71	MAS = 10.00 (m)	170.00	170.00					MinPts
	5365.64	32.81	5357.35	5332.83	925.73	MAS = 10.00 (m)	660.00	660.00					MinPts
	5368.60	32.81	5353.57	5335.79	428.35	MAS = 10.00 (m)	1360.00	1360.00					MinPt-EOU
	5372.18	32.81	5353.47										

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		
	491.28	32.81	471.78	458.48	28.74	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	491.61	32.81	469.73	458.80	25.24	MAS = 10.00 (m)	2040.00	2040.00				MinPts	
	490.91	41.35	462.51	449.56	18.86	OSF1.50	2700.00	2700.00				MinPt-CtCt	
	491.74	43.69	461.78	448.05	17.82	OSF1.50	2860.00	2860.00				MinPt-EOU	
	493.42	45.76	462.08	447.66	17.02	OSF1.50	3000.00	3000.00				MinPt-ADP	
	734.24	72.89	684.82	661.35	15.59	OSF1.50	4860.00	4840.78				MinPt-SF	
	1125.85	96.92	1060.40	1028.93	17.85	OSF1.50	7270.00	7221.08				MinPt-SF	
	1402.49	125.22	1318.17	1277.26	17.11	OSF1.50	9900.00	9814.31				MinPt-CtCt	
	1402.50	125.25	1318.16	1277.25	17.11	OSF1.50	9910.00	9822.71				MinPts	
	1408.18	126.52	1323.00	1281.66	17.00	OSF1.50	10140.00	9984.58				MinPt-SF	
	1498.31	222.34	1349.25	1275.97	10.21	OSF1.50	14780.00	10099.91				MinPts	
	5759.83	177.47	5640.68	5582.36	49.36	OSF1.50	20186.74	10100.00				TD	
30-025-40791 - DOS EQUIS `12` FEDERAL COM 2H - Gyro+MWD to 12650ft (DefinitiveSurvey)													Pass
	483.42	32.81	480.92	450.61	#####	MAS = 10.00 (m)	0.00	0.00				MinPts	
	483.42	32.81	480.91	450.62	28860.36	MAS = 10.00 (m)	23.00	23.00				WRP	
	488.72	32.81	474.58	455.91	41.77	MAS = 10.00 (m)	1260.00	1260.00				MinPt-EOU	
	491.28	32.81	471.78	458.48	28.74	MAS = 10.00 (m)	1800.00	1800.00				MinPts	
	491.61	32.81	469.73	458.80	25.24	MAS = 10.00 (m)	2040.00	2040.00				MinPts	
	490.91	41.35	462.51	449.56	18.86	OSF1.50	2700.00	2700.00				MinPt-CtCt	
	491.74	43.69	461.78	448.05	17.82	OSF1.50	2860.00	2860.00				MinPt-EOU	
	493.42	45.76	462.08	447.66	17.02	OSF1.50	3000.00	3000.00				MinPt-ADP	
	734.24	72.89	684.82	661.35	15.59	OSF1.50	4860.00	4840.78				MinPt-SF	
	1125.85	96.92	1060.40	1028.93	17.85	OSF1.50	7270.00	7221.08				MinPt-SF	
	1402.49	125.22	1318.17	1277.26	17.11	OSF1.50	9900.00	9814.31				MinPt-CtCt	
	1402.50	125.25	1318.16	1277.25	17.11	OSF1.50	9910.00	9822.71				MinPts	
	1408.18	126.52	1323.00	1281.66	17.00	OSF1.50	10140.00	9984.58				MinPt-SF	
	10210.72	150.29	10109.69	10060.43	103.61	OSF1.50	20186.74	10100.00				TD	
30-025-46320 - DOS EQUIS 12-13 FEDERAL COM 005H - IFR1 to 22232ft - A (DefinitiveSurvey)													Pass
	842.03	32.81	839.53	809.22	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	842.03	32.81	839.51	809.22	56434.30	MAS = 10.00 (m)	23.00	23.00				WRP	
	560.86	53.51	524.36	507.35	16.42	OSF1.50	3432.73	3431.08				MinPt-CtCt	
	562.58	59.05	522.38	503.52	14.85	OSF1.50	3800.00	3793.84				MinPt-EOU	
	563.59	60.27	522.58	503.33	14.57	OSF1.50	3880.00	3872.85				MinPt-ADP	
	568.21	66.67	522.93	501.54	13.22	OSF1.50	4300.00	4287.68				MinPt-EOU	
	571.12	70.66	523.18	500.46	12.51	OSF1.50	4560.00	4544.47				MinPt-EOU	
	572.03	71.88	523.28	500.15	12.31	OSF1.50	4640.00	4623.49				MinPt-ADP	
	567.06	93.11	504.16	473.95	9.35	OSF1.50	6010.00	5976.60				MinPt-CtCt	
	569.63	100.13	502.05	469.51	8.71	OSF1.50	6460.00	6421.06				MinPt-EOU	
	570.64	101.37	502.22	469.27	8.62	OSF1.50	6540.00	6500.07				MinPt-ADP	
	577.12	109.02	503.61	468.11	8.09	OSF1.50	7030.00	6984.04				MinPt-EOU	
	578.07	110.11	503.83	467.96	8.02	OSF1.50	7100.00	7053.17				MinPt-ADP	
	580.03	112.93	503.91	467.09	7.84	OSF1.50	7280.00	7230.95				MinPt-CtCt	
	580.57	114.96	503.10	465.61	7.71	OSF1.50	7410.00	7359.35				MinPt-EOU	
	581.10	115.58	503.22	465.52	7.68	OSF1.50	7450.00	7398.86				MinPt-ADP	
	585.46	122.16	503.19	463.30	7.31	OSF1.50	7870.00	7813.68				MinPt-EOU	
	586.38	123.25	503.37	463.12	7.25	OSF1.50	7940.00	7882.82				MinPt-ADP	
	608.13	131.61	519.56	476.52	7.04	OSF1.50	8490.00	8426.04				MinPt-SF	
	651.50	141.26	556.50	510.25	7.02	OSF1.50	9200.00	9131.29				MinPt-CtCt	
	619.77	149.33	519.39	470.45	6.31	OSF1.50	10080.00	9948.81				MinPts	
	620.05	149.45	519.58	470.60	6.30	OSF1.50	10100.00	9961.29				MinPt-SF	
	2379.08	138.66	2285.81	2240.42	26.18	OSF1.50	12440.00	10099.91				MinPt-CtCt	
	2379.39	140.45	2284.93	2238.94	25.85	OSF1.50	12540.00	10099.91				MinPt-EOU	
	2379.59	140.68	2284.97	2238.91	25.80	OSF1.50	12560.00	10099.91				MinPt-ADP	
	2383.76	165.50	2272.59	2218.26	21.91	OSF1.50	13640.00	10099.91				MinPt-CtCt	
	2357.37	207.81	2217.99	2149.56	17.20	OSF1.50	15340.00	10099.91				MinPt-CtCt	
	2356.19	213.83	2212.81	2142.36	16.71	OSF1.50	15530.00	10099.91				MinPt-CtCt	
	2358.18	218.45	2211.72	2139.73	16.36	OSF1.50	15700.00	10099.91				MinPt-EOU	
	2360.06	220.72	2212.08	2139.34	16.21	OSF1.50	15780.00	10099.91				MinPt-ADP	
	2371.20	233.64	2214.61	2137.56	15.37	OSF1.50	16190.00	10099.91				MinPt-EOU	
	2373.13	235.85	2215.06	2137.28	15.24	OSF1.50	16270.00	10099.91				MinPt-ADP	
	2382.56	245.88	2217.80	2136.68	14.67	OSF1.50	16550.00	10099.91				MinPt-CtCt	
	2382.49	252.07	2213.61	2130.42	14.30	OSF1.50	16746.14	10099.91				MinPt-CtCt	
	2383.80	257.72	2211.16	2126.08	14.00	OSF1.50	16980.00	10099.91				MinPt-EOU	
	2385.06	259.23	2211.41	2125.83	13.92	OSF1.50	17050.00	10099.91				MinPt-ADP	
	2388.18	263.58	2211.62	2124.60	13.71	OSF1.50	17190.00	10099.92				MinPt-EOU	
	2389.08	264.65	2211.81	2124.43	13.66	OSF1.50	17240.00	10099.92				MinPt-ADP	
	2394.15	280.54	2206.29	2113.61	12.90	OSF1.50	17730.00	10099.93				MinPt-CtCt	
	2394.94	283.75	2204.94	2111.19	12.76	OSF1.50	17860.00	10099.94				MinPt-EOU	
	2395.46												

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		
	1034.83	228.30	881.80	806.53	6.86	OSF1.50	15390.00	10099.91				MinPt-CtCt	
	1035.08	228.98	881.60	806.10	6.84	OSF1.50	15420.00	10099.91				MinPt-EOU	
	1035.28	229.20	881.65	806.08	6.83	OSF1.50	15430.00	10099.91				MinPt-ADP	
	1042.44	231.84	887.04	810.60	6.80	OSF1.50	15550.00	10099.91				MinPt-SF	
	1319.83	360.93	1078.37	958.89	5.51	OSF1.50	20186.74	10100.00				MinPts	
30-025-41306 - Bell Lake 24 Fed 2H - MWD to 16075ft - A (DefinitiveSurvey)													Pass
	15362.33	32.81	15359.83	15329.52	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	15362.28	32.81	15359.77	15329.47	2451615.83	MAS = 10.00 (m)	23.00	23.00				WRP	
	1116.10	268.66	936.16	847.44	6.28	OSF1.50	20186.74	10100.00				MinPts	
30-025-41480 - DOS EQUIS 13 FEDERAL COM 2H - MWD to 15311ft (DefinitiveSurvey)													Pass
	5283.26	32.81	5280.76	5250.45	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5283.21	32.81	5280.71	5250.41	821746.43	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	5283.19	32.81	5280.68	5250.38	1463136.41	MAS = 10.00 (m)	23.00	23.00				WRP	
	5283.19	32.81	5280.66	5250.38	212905.71	MAS = 10.00 (m)	30.00	30.00				MinPts	
	5290.71	32.81	5274.40	5257.90	382.97	MAS = 10.00 (m)	1500.00	1500.00				MinPt-EOU	
	5293.98	32.81	5274.07	5261.17	303.89	MAS = 10.00 (m)	1860.00	1860.00				MinPt-EOU	
	5300.64	35.77	5275.96	5264.87	238.87	OSF1.50	2350.00	2350.00				MinPt-ADP	
	5650.51	146.53	5551.99	5503.98	58.82	OSF1.50	9450.00	9381.29				MinPt-EOU	
	5650.97	147.15	5552.03	5503.82	58.57	OSF1.50	9500.00	9431.29				MinPt-ADP	
	1227.54	193.11	1097.96	1034.42	9.64	OSF1.50	15385.88	10099.91				MinPt-CtCt	
	1227.65	193.37	1097.91	1034.29	9.63	OSF1.50	15400.00	10099.91				MinPts	
	1231.65	194.50	1101.14	1037.14	9.60	OSF1.50	15470.00	10099.91				MinPt-SF	
	1498.39	202.22	1362.74	1296.17	11.23	OSF1.50	16140.00	10099.91				MinPt-EOU	
	1500.23	204.35	1363.16	1295.87	11.13	OSF1.50	16230.00	10099.91				MinPt-ADP	
	1571.54	246.27	1406.52	1325.26	9.65	OSF1.50	17750.00	10099.93				MinPt-EOU	
	1576.06	251.67	1407.45	1324.39	9.47	OSF1.50	17930.00	10099.94				MinPt-ADP	
	1589.89	279.02	1403.05	1310.88	8.61	OSF1.50	18720.00	10099.96				MinPt-CtCt	
	1554.29	322.55	1338.42	1231.74	7.27	OSF1.50	19930.00	10099.99				MinPt-CtCt	
	1554.36	322.80	1338.33	1231.56	7.27	OSF1.50	19950.00	10099.99				MinPts	
	1555.29	323.18	1339.00	1232.10	7.26	OSF1.50	19990.00	10099.99				MinPt-SF	
	1574.68	322.89	1358.59	1251.80	7.36	OSF1.50	20186.74	10100.00				TD	
Working Definitive Survey (Non-Def Survey)													Pass
	2156.29	32.81	2154.59	2123.48	#####	MAS = 10.00 (m)	0.00	0.00				MinPts	
	2156.30	32.81	2154.58	2123.49	93741.76	MAS = 10.00 (m)	23.00	23.00				WRP	
	2157.91	32.81	2153.83	2125.10	904.27	MAS = 10.00 (m)	310.00	310.00				MinPt-EOU	
	2160.72	32.81	2154.14	2127.91	442.33	MAS = 10.00 (m)	560.00	560.00				MinPt-EOU	
	2157.61	32.81	2144.50	2124.80	188.91	MAS = 10.00 (m)	1210.00	1210.00				MinPt-EOU	
	1437.47	101.35	1369.38	1336.12	21.59	OSF1.50	6834.74	6791.18				MinPt-CtCt	
	1437.76	102.26	1369.07	1335.51	21.40	OSF1.50	6900.00	6855.64				MinPt-EOU	
	1438.10	102.67	1369.13	1335.43	21.31	OSF1.50	6930.00	6885.27				MinPt-ADP	
	1484.83	110.03	1410.95	1374.80	20.51	OSF1.50	7550.00	7497.63				MinPt-SF	
	1732.55	134.05	1642.66	1598.50	19.60	OSF1.50	9340.00	9271.29				MinPt-ADP	
	1749.00	138.98	1655.82	1610.01	19.07	OSF1.50	10060.00	9935.79				MinPt-SF	
	10330.26	163.06	10221.03	10167.20	95.94	OSF1.50	20186.74	10100.00				TD	
30-025-24530 - WIMBERLY 4 - INC Only to 5030ft (DefinitiveSurvey)													Pass
	1669.79	32.81	1667.99	1636.99	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1669.72	32.81	1667.91	1636.91	195956.93	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	1669.71	32.81	1667.90	1636.90	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	1669.71	162.54	1560.75	1507.17	15.57	OSF1.50	3000.00	3000.00				MinPt-CtCt	
	1687.30	205.50	1549.70	1481.80	12.41	OSF1.50	3720.00	3714.82				MinPt-EOU	
	1692.88	213.72	1549.80	1479.16	11.97	OSF1.50	3860.00	3853.10				MinPt-EOU	
	1736.53	278.78	1550.08	1457.76	9.39	OSF1.50	4790.00	4771.64				MinPt-EOU	
	1745.16	291.15	1550.45	1454.01	9.04	OSF1.50	4950.00	4929.67				MinPt-ADP	
	1751.83	297.61	1552.82	1454.22	8.87	OSF1.50	5070.00	5048.19				MinPt-SF	
	5148.73	101.62	5080.38	5047.11	77.35	OSF1.50	11680.00	10099.91				MinPt-CtCt	
	5148.87	101.95	5080.31	5046.93	77.10	OSF1.50	11710.00	10099.91				MinPt-EOU	
	5149.07	102.18	5080.35	5046.89	76.92	OSF1.50	11730.00	10099.91				MinPt-ADP	
	6837.51	246.76	6672.40	6590.75	41.86	OSF1.50	16200.00	10099.91				MinPt-SF	
	9937.24	305.03	9733.29	9632.21	49.15	OSF1.50	20186.74	10100.00				TD	
30-025-24530 - WIMBERLY 3 - INC Only to 5070ft (DefinitiveSurvey)													Pass
	1857.38	32.81	1855.57	1824.57	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1857.28	32.81	1855.46	1824.48	132262.11	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	1857.24	32.81	1855.43	1824.43	272777.62	MAS = 10.00 (m)	20.00	20.00				MinPt-EOU	
	1857.24	32.81	1855.43	1824.43	3795155.67	MAS = 10.00 (m)	23.00	23.00				WRP	
	1776.36	346.62	1544.67	1429.74	7.72	OSF1.50	5150.00	5127.20				MinPt-SF	
	1776.28	346.60	1544.62	1429.69	7.72	OSF1.50	5160.00	5137.08				MinPt-ADP	
	1776.26	346.57	1544.61	1429.69	7.72	OSF1.50	5168.06	5145.04				MinPts	
	5008.15	85.42	4950.60	4922.73	89.82	OSF1.50	11670.00	10099.91				MinPt-CtCt	
	5008.43	86.09	4950.43	4922.34	89.11	OSF1.50	11720.00	10099.91				MinPt-EOU	
	5008.84	86.57	4950.52	4922.27	88.61	OSF1.50	11750.00	10099.91				MinPt-ADP	
	6826.75	276.22	6642.00	6550.53	37.31	OSF1.50	16320.00	10099.91				MinPt-SF	
	9866.89	340.55	9639.26	9526.34	43.68	OSF1.50	20186.74	10100.00				TD	

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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 321108

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 321108
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/3/2024